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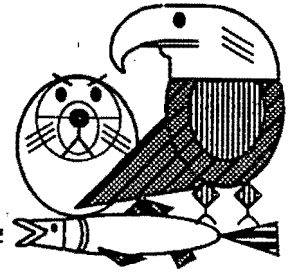
December 1996

Exxon Valdez Oil Spill Trustee Council

Restoration Office

645 G Street, Suite 401, Anchorage, Alaska 99501-3451

Phone: (907) 278-8012 Fax: (907) 276-7178



December 30, 1996

Margaret Wooldridge
Assistant Professor
Texas A&M University
Department of Mechanical Engineering
College Station, Texas 77843-3123

Dear Ms. Wooldridge:

Thank you for sending me the material on the Energy Week conference schedule. After reviewing these, I believe it would be more appropriate if we were to be considered for a session in 1998. For your information, I am enclosing a copy of our 1996 annual report. I'll be sure to put you on the mailing list for our 1997 report which is due out in March.

Thank you for considering us for this year's conference.

Sincerely,

Molly McCammon
Executive Director

Enclosure

mm/raw

Trustee Agencies

State of Alaska: Departments of Fish & Game, Law, and Environmental Conservation
United States: National Oceanic and Atmospheric Administration, Departments of Agriculture and Interior



Executive Committee

Adel S. Tawfik, P.E.

Brown & Root, Inc.
Tel: 713-575-4227 Fax: 713-575-5257

Joe R. Fowler, Ph. D., P.E.

Stress Engineering Services, Inc.
Tel: 713-955-2900 Fax: 713-955-2638

Philip L. Carpentier, P.E.

Shell Western E & P Inc.
Tel: 713-544-3508 Fax: 713-544-2785

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Shell Development Company
Tel: 713-544-8134 Fax: 713-241-3517

John P. Vozniak

Amoco
Tel: 713-366-3895 Fax: 713-366-7557

Bill L. Flanders

Alaska Pipeline Services
Tel: 907-265-8106 Fax: 907-265-8178

Edmund J. Seiders, P.E.

Willbros Engineers, Inc.
Tel: 918-496-0400 Fax: 918-492-8362

Operating Committees

Computers in Engineering

Heinz-Dieter Knöll
Fachhochschule Nordostniedersachsen
Tel: 49 (0) 4131/667-148
Fax: 49 (0) 4131/677-140

Drilling

Bobby Grimes
Hughes Christensen
Tel: 713-363-6545 Fax: 713-363-6070

Emerging Energy Technology

Krishna R. Kumar, Ph. D.
Atomic Energy of Canada - WNR
Tel: 204-753-2311 Fax: 204-753-2455

Environmental Concerns

Margaret S. Wooldridge, Ph. D.
Texas A&M University
Tel: 409-862-2623 Fax: 409-862-2418

Management

Ernest L. Kistler, Ph.D., P.E.
SIMCO
Tel: 318-861-0386 Fax: 318-861-2222

Materials

Karan S. Surana, Ph.D.
University of Kansas
Tel: 913-864-2988 Fax: 913-864-5254

Offshore Operations

Sandeep Khurana
Paragon Engineering Services, Inc.
Tel: 713-744-7110 Fax: 713-462-6524

Plant Engineering & Reliability

Stephen B. Taylor, P.E.
Marathon Oil Company
Tel: 409-943-7293 Fax: 409-943-7512

Production

Terry Lechinger
Stress Engineering Services
Tel: 713-955-2900 Fax: 713-955-2638

Structural Dynamics & Vibration

Bulent A. Ozyunc, Ph. D.
University of Southwestern Louisiana
Tel: 318-482-6847 Fax: 318-482-6688

Transportation

Travis Stripling
Brown & Root
Tel: 713-575-3939 Fax: 713-575-3901

Tribology

Houshang A. Masudi, Ph.D.
Prairie View A&M University
Tel: 409-857-4023 Fax: 409-857-2222

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EXXON VALDEZ OIL SPILL
TRUSTEE COUNCIL

December 13, 1996

Molly McCammon
Executive Director
Exxon Valdez Oil Spill Trustee Council
645 G. Street
Suite 401
Anchorage, Alaska 99501

Ms. McCammon,

Here is the preliminary conference schedule. I have flagged our session, Environmental Engineering, pages. I have also included a copy of the flyer specifically highlighting our session presentations. If you are interested, there may still be time to get your name and information added to the final extended conference schedule. From Alex's description, I think the material you would present would have high appeal to our attendees. However, we would be able to do much better advertising of your presentation if you came for Energy Week '98. In any case, I appreciate your time and interest. Please let me know if you have any questions or require any additional information. I can be reached at mwooldridge@mengr.tamu.edu, (409) 862-2623 phone, or (409) 862-2418 FAX.

Sincerely,

Margaret Wooldridge
Assistant Professor
Texas A&M University
Department of Mechanical Engineering
College Station, Texas 77843-3123

11757 Katy Freeway
Suite 865
Houston, Texas 77079
Tel: (713) 493-3491
Fax: (713) 493-3493

ASME FUNCTIONS AT ENERGY WEEK '97

Monday, January 27

9:00AM - 4:00PM Gas Lift Workshop
9:00AM - 5:00PM Centrifugal Pumps Workshop (1 day at Hyatt Regency)
1:30PM - 4:30PM Total Productivity Management Workshop
3:00PM - 5:00PM ENERGY WEEK Executive Committee Meeting
5:00PM - 7:00PM Journal of Energy Resources Technology (JERT) Associate Editor Training

Tuesday, January 28

9:00AM - 4:00PM Gas Lift Workshop
12:00PM - 2:00PM Petroleum Division Luncheon
12:00PM - 2:00PM Heat Transfer Committee Luncheon (at Pet. Div. luncheon)
12:00PM - 2:00PM Offshore Operations Committee Luncheon (at Pet. Div. luncheon)
5:00PM - 6:00PM ENERGY WEEK '97 Student Paper Competition Presentations
5:00PM - 8:30PM Materials Design and Analysis Committee Meeting
5:30PM - 7:30PM Cryogenics Committee Meeting
5:30PM Tribology Committee Dinner (offsite)

Wednesday, January 29

8:00AM - 1:00PM Petroleum Division Executive Committee Meeting
12:00PM - 1:30PM Associates Committee Luncheon
12:00PM - 1:30PM Environmental Concerns Committee Luncheon
12:00PM - 1:30PM Emerging Energy Technology Committee Luncheon
12:00PM - 1:30PM Materials Design and Analysis Committee Luncheon
12:00PM - 1:30PM Petroleum Production Technology Committee Luncheon
12:00PM - 1:30PM Pipeline Engineering Committee Luncheon
5:00PM - 6:00PM Petroleum Division Chairmans' Reception
5:00PM - 6:00PM ENERGY WEEK Awards Dinner Reception
6:00PM - 9:00PM ENERGY WEEK Awards Dinner

Thursday, January 30

1:00PM - 5:00PM Piping Design and Pipe Stress Analysis Workshop
1:00PM - 5:00PM Pressure Vessel Engineering Workshop
1:00PM - 5:00PM Compressors: Modern Technology and Applications
12:00PM - 1:30PM Computers in Engineering Committee Luncheon
12:00PM - 1:30PM Drilling Technology Committee Luncheon
1:00PM - 3:00PM ETCE/ENERGY WEEK Executive and General Committees Meeting
3:00PM - 5:00PM Petroleum Division Executive and General Committees Meeting

Friday, January 31

9:00AM - 5:00PM Piping Design and Pipe Stress Analysis Workshop
9:00AM - 5:00PM Pressure Vessel Engineering Workshop
9:00AM - 5:00PM Compressors: Modern Technology and Applications

Saturday, February 1

8:00AM - 5:00PM Energy Resources Board Meeting (offsite)
9:00AM - 5:00PM Piping Design and Pipe Stress Analysis Workshop
9:00AM - 5:00PM Pressure Vessel Engineering Workshop
9:00AM - 5:00PM Compressors: Modern Technology and Applications

Sunday, February 2

8:00AM - 12:00PM Energy Resources Board Meeting (offsite)

For a special evening...
attend the ENERGY WEEK Conference Dinner.

Wednesday, January 29, 1997

Reception (cash bar): 5:00PM

Dinner: 6:00PM

3rd Level, George R. Brown Convention Center

ENERGY WEEK conference delegates are invited to relax in the evening after an informative day at the conference. Bring your companion or clients to the annual ASME - ENERGY WEEK Awards Reception and Dinner. One of the highlights of the week, this year's dinner will feature fine food and drink, entertainment and a presentation of conference awards honoring outstanding accomplishments. Winners of the "Best Mechanical Engineering Achievement" award for exhibitors and the "Student Technical Paper Competition" will be announced.

John Lienhard, the MD Anderson Professor of Mechanical Engineering and History at the University of Houston, and the author/host of "The Engines of Our Ingenuity," heard nationally on Public Radio, will take the audience on a nostalgic trip down "The Highways of the 30's - America in Transition," describing how engineering advancements in automotive technology, fuels, and service have changed our society. Entertainment will also be provided by the 30-member orchestra from the Lanier Middle School, with the proceeds from the dinner supporting the school's music program. Enjoy a great meal, the company of your fellow delegates, and a fun presentation. Plan now to attend this festive evening, and call to arrange a table for your company. Guest tickets will be sold separately.

Cost: \$25.00 per person For special dietary needs, call 1.713.493.3491.

ASME- Petroleum Division Engineering Leadership Luncheon

Tuesday, January 28, 1997, 12:00 - 2:00PM
3rd Level - George R. Brown Convention Center

The 19th annual Engineering Leadership Luncheon of the American Society of Mechanical Engineers - Petroleum Division will feature the presentation of two very prestigious petroleum industry awards; the Geoca Mechanical Engineering Achievement Award (Oil Drop) to an industry engineer who has made significant contributions to the technology of the industry, and the Von Nimitz Engineering Leadership Award for outstanding leadership/ management of peers in project, systems, or detail design engineering. There will also be a report to the membership by Adel Tawfik, Brown & Root, Inc., the Division Chair, and Ed Seiders, Wilbros Engineers, Inc., the immediate past Chair, on the Division's recent activities, changes, and plans for the next year. Special recognition will be given to the accomplishments of Division committee chairs, volunteers and members, along with some surprise awards. Plan to join your fellow Petroleum Division members at this special luncheon.

Cost: \$20 per person. For special dietary needs, call 1.713.493.3491

ASME MEMBER INFORMATION

	Before 1/15/97	After 1/15/97
ASME Registration Fees		
ASME Member Full Registration	\$230	\$265
ASME Member One-Day Registration	\$115	\$115
ASME Life Member (retired)	\$30	\$30
ASME Student Member	No charge	No charge
Engineering Student	\$15	\$15
Cooperating Societies **	\$260	\$300
Spouse	No charge	No charge
ASME Petroleum Division Luncheon	\$20	\$20

* Registration fee for engineering students (non-ASME member) can be applied to first-year ASME student member dues.

**To qualify for discounted registration, you must be a member of: ABCM - Brazil, AICHE, AIIE-Spain, AIME-Columbia, AMIME-Mexico, ASMECCANICA-Italy, BSE-Bahrain, CAI-Argentina, CIV-Venezuela, CSME-Canada, CMES-China, CMES-Czech, CSME-Taipei, ESE-Egypt, FAIE-Spain, GCM-France, GTE-Hungary, HKIE-Hong Kong, HSMEE-Greece, IDA-Denmark, IE-Australia, IE-Bangladesh, IE-India, IE-United Kingdom, IE-Indonesia, ISEE, IE-Ireland, IE-Singapore, IME-India, IMechE-United Kingdom, IPENZ-New Zealand, ISF-France, JSME-Japan, KSME-Korea, KIVI-The Netherlands, NSCE-Norway, OE-Portugal, PSME-Philippines, RAN-Russia, RSME-Romania, SBM-Belgium, SIMP-Poland, SMEI-Israel, SMES-Slovakia, SMETJ-Yugoslavia, SMR-Sweden, TCME-Turkey, UIT-Italy, USME/UAN-Ukraine, VDI-Germany.

Please indicate membership number on registration form.

CANCELLATION POLICY

Cancellations received on or before December 15, 1996, are fully refundable. Cancellations received between December 16, 1996, and January 15, 1997, are 50% refundable. No refunds after January 15, 1997. Substitutions are allowed at any time provided the ENERGY WEEK '97 Management is notified.

ENERGY WEEK

Conference and Exhibition
Guarantee

If for any reason ENERGY WEEK '97 does not satisfy your expectations, contact the ENERGY WEEK '97 Management in writing by February 14, 1997, for a complete refund of your conference registration fee.

REGISTRATION FORM ENERGY WEEK '97 GEORGE R. BROWN CONVENTION CENTER, HOUSTON, TEXAS USA JANUARY 28 - 30, 1997

All fields of information (Part 1 - Part 9) must be filled in COMPLETELY in order for this registration to be processed!

1. PRIMARY COMPANY TYPE

- | | | | | | |
|---|--|--|---|--|--|
| <input type="checkbox"/> Oil & Gas Operator | <input type="checkbox"/> Refinery | <input type="checkbox"/> Petrochemical | <input type="checkbox"/> Terminal Operator | <input type="checkbox"/> Storage Facility | <input type="checkbox"/> Oil/Gas Marketing |
| <input type="checkbox"/> Pipeline | <input type="checkbox"/> Service Co. | <input type="checkbox"/> Construction/Contractor | <input type="checkbox"/> Equipment Manufacturer | <input type="checkbox"/> Supplier/Manufacturer | <input type="checkbox"/> Wholesale/Distributor |
| <input type="checkbox"/> Engineering | <input type="checkbox"/> Government/Regulatory | <input type="checkbox"/> Research & Development | <input type="checkbox"/> Lab, Testing/Measure/Anal. | <input type="checkbox"/> College or University | <input type="checkbox"/> Other _____ |

2. JOB FUNCTION: CHECK ALL THAT APPLY

- | | | | |
|---|---|---|--|
| <input type="checkbox"/> Purchasing | <input type="checkbox"/> Safety | <input type="checkbox"/> Environmental | <input type="checkbox"/> Legal/Insurance/Financial |
| <input type="checkbox"/> Storage Operations | <input type="checkbox"/> Terminals Operations | <input type="checkbox"/> Industrial/Occupational Health | <input type="checkbox"/> MIS/Computers |
| <input type="checkbox"/> Engineering | <input type="checkbox"/> Sales/Marketer | <input type="checkbox"/> Plant Operations/Management | <input type="checkbox"/> Exploration |
| <input type="checkbox"/> Production | <input type="checkbox"/> Communications | <input type="checkbox"/> Instrumentation/Controls | <input type="checkbox"/> Administrative/Accounting |
| <input type="checkbox"/> SCADA/Automation | <input type="checkbox"/> Maintenance | <input type="checkbox"/> Project Management | <input type="checkbox"/> Other _____ |
| <input type="checkbox"/> Research & Development | <input type="checkbox"/> Education/Training | <input type="checkbox"/> Pipeline Operations | |

4. CONFERENCE FEES

- | | |
|--|-----------|
| <input type="checkbox"/> Individual 3 - Day Registration | |
| Before 1/15/97 | \$345.00 |
| After 1/15/97 | \$395.00 |
| <input type="checkbox"/> Single Day Conference Registration | \$175.00 |
| <input type="checkbox"/> Booth Staff Conference Registration | \$175.00 |
| <input type="checkbox"/> Registration for Exhibition Only | |
| Before 1/15/97 | No Charge |
| After 1/15/97 | \$20.00 |

5. CORPORATE REGISTRATION

- | | |
|--|------------|
| <input type="checkbox"/> Corporate Registration Plan | |
| (Register up to 20 delegates for one low price) | |
| Before 12/01/96 | \$ 1595.00 |
| After 12/01/96 | \$ 1895.00 |
| <input type="checkbox"/> Select-Plus Corporate Registration Plan | |
| (Register an unlimited number of delegates) | |
| Before 12/01/96 | \$ 2595.00 |
| After 12/01/96 | \$ 2995.00 |

3. PURCHASING ROLE

- | | |
|------------------------------------|----------------------------------|
| <input type="checkbox"/> Final | <input type="checkbox"/> Specify |
| <input type="checkbox"/> Recommend | <input type="checkbox"/> None |

6. CONFERENCE PAPERS

Conference delegates have the option to choose a volume of Conference Papers: (Must Check only one)

- ☐ PETRO-SAFE
☐ PIPELINES, TERMINALS & STORAGE
☐ PROCESSING & REFINING
☐ DRILLING & PRODUCTION OPERATIONS
☐ ENERGY ENGINEERING
☐ ENERGY INFORMATION MANAGEMENT
☐ CRYOGENICS

7. OPTIONAL WORKSHOPS/SHORT COURSES

- | | | | |
|---|----------|---|-----------|
| <input type="checkbox"/> Registered Environmental Manager/Certified Environmental Auditor | \$695.00 | <input type="checkbox"/> Consulting Techniques for Professionals | \$295.00 |
| <input type="checkbox"/> ISO 14000 - Environmental Management & Auditing Standards | \$145.00 | <input type="checkbox"/> Ergonomics for Managers/Supervisors | \$145.00 |
| <input type="checkbox"/> Estimating Emissions from Aboveground Storage Tanks | \$195.00 | <input type="checkbox"/> Piping Design and Pipe Stress Analysis (ASME) | \$685.00 |
| <input type="checkbox"/> Introduction to Total Productivity Management (ASME) | \$95.00 | <input type="checkbox"/> Pressure Vessel Engineering (ASME) | \$685.00 |
| <input type="checkbox"/> Gas Lift Workshop (ASME) | \$130.00 | <input type="checkbox"/> Compressors: Modern Technology & Applications (ASME) | \$685.00 |
| <input type="checkbox"/> Gas Lift Workshop for API Task Group (ASME) | \$100.00 | <input type="checkbox"/> Enterprise-Wide Real-Time Solutions Seminar | No Charge |
| <input type="checkbox"/> Centrifugal Pumps (ASME) | \$275.00 | | |

8. OPTIONAL EVENTS

- | | |
|--|---|
| <input type="checkbox"/> ASME - ENERGY WEEK CONFERENCE DINNER \$ 25.00
(Wednesday January 29 - 6:00 p.m.) | For special dietary needs, please contact ASME Petroleum Division at Tel: 713.493.3491 Fax 713.493.3493 |
| <input type="checkbox"/> ASME PETROLEUM DIVISION LUNCHEON \$ 20.00
(Tuesday January 28 - 12:00 p.m.) | |

9. PLEASE REGISTER THE FOLLOWING: (PHOTOCOPY THIS FORM FOR ADDITIONAL REGISTRANTS)

Name _____ Title _____
Company _____ Address _____
City/State/Zip _____ Country/Code _____
Phone _____ Fax _____ E-mail _____

☐ API Member Company _____

ASME Membership Number* _____

Cooperating Society* _____ Membership Number _____

(* ASME & Cooperating Society Members please see page 2 for registration fees)

METHOD OF PAYMENT

☐ Payment Enclosed ☐ Exhibit hall only (No Charge) ☐ Please charge my: ☐ MasterCard ☐ VISA ☐ Discover ☐ AMEX

Card Number _____ Expiration Date _____

Full Name (As appears on card) _____

Signature (required for credit card payments) _____

Credit Card Payments may be faxed to the
ENERGY WEEK '97 Office in Houston, Texas:

FAX: 1.713.963.6291

MAIL COMPLETED FORM WITH CHECK TO:

ENERGY WEEK '97
3050 Post Oak Boulevard, Suite 205
Houston, Texas 77056-6524 USA
REGISTRATION TEL: 1.713.621.8833
HTTP://PENNWELL.COM/ENERGYWEEK.HTML

\$ _____
Total Registration

RESERVATIONS

To make your reservations contact:

ENERGY WEEK '97
c/o VIP Meetings & Conventions
1515 Palisades Drive, Suite 1
Pacific Palisades, CA 90272-2113

Tel: 1.800.926.3976 or 1.310.459.0600
(M-F, 8:00AM - 5:00PM, Pacific Time)
Fax: 1.310.459.0605

Rates are subject to state and local tax; currently 15%

Shuttle service will be provided to and from the convention center

HOTEL INFORMATION

Official ENERGY WEEK '97 Hotels:

Four Seasons Hotel (Headquarters Hotel)
1300 Lamar Street, Houston, 77010
Rates: \$140 Single; \$150 Double
2 blocks to Convention Center

Hyatt Regency Houston
1200 Louisiana Street, Houston, 77002
Rates: \$125 Single or Double
8 blocks to Convention Center

Doubletree Hotel at Allen Center
400 Dallas Street, Houston, 77002
Rates: \$116 Single or Double
9 blocks to Convention Center

Holiday Inn Select
2712 Southwest Fwy, Houston, 77098
Rates: \$78 Single or Double
5 miles to Convention Center

TRAVEL INFORMATION

Southwest Airlines is proud to be the Official Airline of the ENERGY WEEK Conference & Exhibition. To take advantage of Southwest Airlines special discounted fare offer, call Southwest Airlines Group Desk at 800-433-5368. Call no later than January 17, 1997 and refer to Identifier Code C1187. Discounts are only available by phoning Southwest Airlines Group Desk at 1.800.433.5368, Monday - Friday, 8:00AM - 5:00PM (Central Time).

SELECT HOTELS BY NAME IN ORDER OF PREFERENCE:

1 _____
2 _____
3 _____
4 _____

ROOM TYPES:

S = Single (1 person, 1 bed)
D = Double (2 persons, 1 bed)
D/D = Double/Double
(2 persons, 2 beds)
S1 = 1 Bedroom Suite
S2 = 2 Bedroom Suite
H = Hospitality Suite

Book early to ensure your hotel preference. Confirmation will be sent by the hotel directly.

After confirmation, notify housing office of any changes or cancellations.

First night's deposit plus tax is required for all hotels.

Fill out credit card section on the form, including credit card number, expiration date and signature authorizing billing.

Photocopy this form for additional names.

Shuttle service to and from the Convention Center is included in the rates.

CANCELLATION POLICY

Deposit is refundable if cancelled at least 72 hours prior to arrival.

A CONFIRMATION WILL BE SENT TO THE ADDRESS BELOW: PLEASE TYPE OR PRINT CLEARLY

Contact Name _____ Company _____

Address (for confirmations) _____

City _____ State _____ Zip _____

Country _____ Phone () _____ Fax () _____

Name _____ Share With _____

Arrival Date _____ Time _____ Departure Date _____ Time _____

Special Requests (honored when possible) _____

Please charge my credit card: ☐ AMEX ☐ Diners ☐ DISCOVER ☐ MasterCard ☐ VISA ☐ Other

Card Number _____ Expiration Date _____

Full Name on Card _____ Signature (required) _____

☐ Payment Enclosed \$ _____ (Please make check payable to hotel.)

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Petroleum Division

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ENERGY WEEK '97

Conference and Exhibition

January 28 - 30, 1997

George R. Brown Convention Center

Houston, Texas

Focusing on the future of the oil, gas and petrochemical industries, ENERGY WEEK '97 will offer over 200 sessions for delegates interested in solutions to technical problems, industry trends and strategies.

Environmental Engineering Symposium

Symposium Chair: Margaret S. Wooldridge, Texas A & M University

Environmental issues are becoming an increasing concern as regulations become more stringent and natural resources are depleted. The symposium on Environmental Engineering covers a broad range of environmental topics of current interest including: pollutant detection, health, ecological and social impact of hazardous waste; and design for the environment.

SCHEDULE

Wednesday, January 29, 1997

8:45 - 10:00AM Design for the Environment

Session Chair: Dr. George Holliday,
Holliday Environmental Services

Environmental Effects of Nondestructive
Evaluation

Dr. Don Bray, Texas A & M University

Multi-Layer Caps for Containment of
Sediment Associated Contaminants

Dr. G. Thoma, Dr. V. Popov, Dr. M. Bowen,
Dr. D. Reible, University of Arkansas;
Dr. K. Valsaraj, Dr. L. Thibodeaux,
Louisiana State University

An Investigation of the Effect of Diffusivity in
the Transport and Spread of Contaminants in
Groundwater Systems

Dr. Darin Nutter, Dr. Michael Stewart and
Dr. Arnold Muyschondt, University of Arkansas

10:45 - 12:00PM Pollutant Behavior, Analysis
and Remediation Technology

Session Chair: Dr. Margaret Wooldridge,
Texas A & M University

Geochemical Partitioning of Metals in Spent
Drilling Fluid Solids

Dr. Lloyd Deuel, Jr., Soil Analytical Services, Inc.
Dr. George Holliday, Holliday Environmental Services,
Inc.,

The Use of Re-refined Oil in Vehicle Fleets
Dr. Tim Maxwell, Texas Tech University

On Compound and Shear Buoyancy Driven
Mixing in the Environment

Anita Flores, Keith Leicht,
Dr. Malcolm Andrews, Texas A & M University

8th ANNUAL INTERNATIONAL

ENERGY WEEK

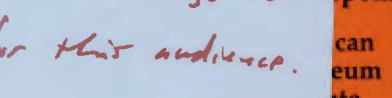
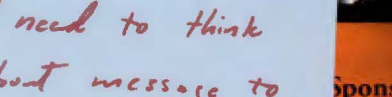
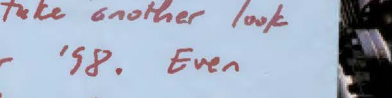
CONFERENCE & EXHIBITION

JANUARY 28-30, 1997

GEORGE R. BROWN CONVENTION CENTER

HOUSTON, TEXAS

**You're Invited to Attend the Future of the
Oil, Gas and Petrochemical Industries**



Molly -
We should take another look
at this for '98. Even
then, we'd need to think
carefully about message to
focus on for this audience.

Stan

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Mar

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- + PROCESSING & REFINING
- + DRILLING & PRODUCTION OPERATIONS
- + BUSINESS RISK MANAGEMENT

PRESENTATIONS COVERING:

- MANAGEMENT & MAINTENANCE
- ENGINEERING
- INFORMATION MANAGEMENT
- + BUSINESS ISSUES & TRENDS
- + CRYDGENICS

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8th ANNUAL INTERNATIONAL

ENERGY WEEK

CONFERENCE & EXHIBITION

JANUARY 28-30, 1997

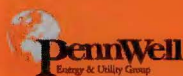
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| + PROCESSING & REFINING | + ENERGY INFORMATION MANAGEMENT |
| + DRILLING & PRODUCTION OPERATIONS | + BUSINESS ISSUES & TRENDS |
| + BUSINESS RISK MANAGEMENT | + CRYOGENICS |

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TABLE OF CONTENTS

Introduction	1-2
Keynote Speakers	1
About the Sponsors	2
Schedule of Events	2
PETRO-SAFE Conference Program	3-8
PIPELINES, TERMINALS & STORAGE	
Conference Program	9-11
Corporate Registration	12
PROCESSING & REFINING	
Conference Program	13-14
DRILLING & PRODUCTION OPERATIONS	
Conference Program	15-18
BUSINESS RISK MANAGEMENT	
Conference Program	19-22
ENERGY WEEK Museum	22
BUSINESS ISSUES & TRENDS	
Conference Program	23
SUBSALT TECHNOLOGY Conference	24
ENERGY ENGINEERING	
Conference Program	25-36
INTERSOCIETY CRYOGENICS	
Conference Program	37-38
Workshops	39-40
Exhibitor List	41-43
Special Events	43
Hotel & Travel Information	44
General Information	45
Registration Form	46



**ENERGY WEEK
Conference Chair**
Joe R. Fowler
Stress Engineering Services, Inc.



**ENERGY WEEK
Technical Program Chair**
Phil Carpenter
Shell Western E&P

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City of Houston Photo on Cover: Jim Lacombe Productions

WELCOME

The American Petroleum Institute and the American Society of Mechanical Engineers - Petroleum Division welcomes your participation at the ENERGY WEEK '97 Conference & Exhibition. Your attendance at this 8th Annual event will enable you to meet and learn from the most influential and innovative people in the oil, gas and petrochemical industries. Each paper presented at ENERGY WEEK '97 has been selected by specialists from industry and academia to reflect current challenges to your organization and offer real-world solutions that will help your business.

The co-sponsors of this international event, the API and ASME International-Petroleum Division, invite you to attend the largest, most diverse groupings of conference sessions and exhibitions ever assembled in our industry. This year, the conference program includes more than 200 sessions, with over 600 presentations by senior level executives, engineers and scientists.

In addition, more than 800 exhibitors at ENERGY WEEK '97 will be presenting the latest in equipment, software, processes and services available to the oil, gas and petrochemical industries. If you are seeking new trends and technologies in our vast and ever changing business, we cordially invite you to join the 12,000 participants expected at ENERGY WEEK '97.

KEYNOTE SPEAKERS

Tuesday, January 28, 1997 8:45-10:00AM



Philip J. Carroll is President and Chief Executive Officer of Shell Oil Company. A physicist by education and training, he has long been a student of the way things work and the rules that govern them. Mr. Carroll has a bachelor's degree in physics from Loyola University and a master's degree in physics from Tulane University. He has worked at Shell since 1961 in virtually every major division. He was elected Vice President of Public Affairs in 1979, Executive Vice President of Administration in 1988 and President and CEO in 1993. He serves as a Director of Shell Oil Company. In addition, Mr. Carroll is a director of the American Petroleum Institute and the Texas Medical Center.



Richard J. Goldstein is the 1996-97 president of the American Society of Mechanical Engineers and is the Regents' Professor, University of Minnesota. In ASME, Dr. Goldstein has served as a member of the Board of Governors and as chair of the Council on Engineering. He served at all levels with the Heat Transfer Division, the Basic Engineering Group, the Distinguished Lecturers Program and the Council on Engineering. He was named an honorary member (the highest membership rank) of ASME in 1992. Dr. Goldstein received his bachelor's degree in mechanical engineering from Cornell University. He also holds an M.S. in mechanical engineering, an M.S. in physics, and a Ph.D. in mechanical engineering.

WHY YOU SHOULD ATTEND

Value. ENERGY WEEK '97 is designed to allow you to see and hear, first hand, many demonstrations and discussions pertaining to the multitude of new products and services available in the changing oil, gas and petrochemical industries.

By attending more than 200 conference sessions, you will have the special opportunity to gain valuable insight into the many technologies and trends occurring in our industry. The 800+ exhibition will provide you with the latest products and services engineered to enhance your company's overall operations.

If you are involved in the oil, gas and petrochemical markets, this is one event you must attend - **we guarantee it!**

ENERGY WEEK
Conference & Exhibition

Guarantee

If for any reason ENERGY WEEK '97 does not satisfy your expectations, contact the ENERGY WEEK '97 Management in writing by February 14, 1997, for a complete refund of your conference registration fee.
All individuals must show proof of attendance to qualify

THIS IS YOUR OPPORTUNITY TO SEE THE FUTURE OF THE OIL, GAS AND PETRO- CHEMICAL INDUSTRIES

The ENERGY WEEK Conference and Exhibition is dedicated to innovations and opportunities throughout the industry. The event will feature over 600 presentations covering important business and technical issues. They include:

PETRO-SAFE -- Now in its eighth year, this is the world's largest conference and exhibition dedicated to the environmental, safety and health concerns of the oil, gas, and petrochemical industries. The exhibition is the key to marketing products and services to the worldwide environmental, safety and health sectors of the oil, gas and petrochemical industries.

PIPELINES, TERMINALS & STORAGE -- Now in its fourth year, this conference and exhibition focuses on all sectors of the pipeline, terminal and storage industries, including the equipment, services and technologies utilized in the construction, rehabilitation, and operation of pipelines, terminals and storage for the petrochemical industry.

PROCESSING & REFINING -- Presented by *Oil & Gas Journal*, this conference and exhibition, will include sequential sessions, examining hardware and software innovations in the refining, gas processing, and olefins industries.

DRILLING AND PRODUCTION OPERATIONS -- This event focuses exclusively on the latest methods, materials, equipment, and services required for the optimal drilling and production of oil and gas.

BUSINESS RISK MANAGEMENT -- The management of risk is the single most critical element in the executive decision making process. Presenters will address the decision making process as effected by regulatory influences, finance and accounting, media and public involvement and the legal matrix.

PLANT MANAGEMENT AND MAINTENANCE -- This third-annual conference and exhibition offers an abundance of information on the most up-to-date equipment, services, and technologies used in the operation and maintenance of refineries, petrochemical facilities and manufacturing sites.

ENERGY ENGINEERING -- This multifaceted conference covers Heat Transfer, Composite Materials, Design & Analysis, Structural Dynamics/Vibration/Buckling Analysis, Tribology, Environmental Engineering, Emerging Energy Technology, and Non-Destructive Evaluation issues.

ENERGY INFORMATION MANAGEMENT -- Now in its second year, this in-depth conference and exhibition offers the latest in computer technologies and applications for professionals within the oil, gas, and petrochemical industries.

BUSINESS ISSUES & TRENDS -- This conference will focus on many of the challenges and opportunities facing today's petroleum industry. Companies who provide "business solutions" to the petroleum industry will highlight their products and services.

CRYOGENICS -- This event is jointly presented by the American Society of Mechanical Engineers, the American Institute for Chemical Engineers and the International Institute of Refrigeration. The aim of this conference is to bring together researchers and practitioners of cryogenic technology and industrial gas separation.

SCHEDULE OF EVENTS

Monday, January 27, 1997

Conference Registration	7:30AM - 5:00PM
Exhibitor Setup	8:00AM - 6:00PM
Optional Workshops	8:00AM - 5:00PM

Tuesday, January 28, 1997

Conference Registration	7:30AM - 6:00PM
Keynote Address	8:45AM - 10:00PM
Exhibition Hours	10:00AM - 5:30PM
Morning Conference Sessions	10:45AM - 12:00PM
Afternoon Conference Sessions	1:30 p.m. - 4:30PM

Wednesday, January 29, 1997

Conference Registration	7:30AM - 6:00PM
Morning Conference Sessions	8:45AM - 12:00PM
Exhibition Hours	10:00AM - 5:30PM
Afternoon Conference Sessions	1:30PM - 4:30PM
ENERGY WEEK Conference Dinner	6:00PM - 9:00PM

Thursday, January 30, 1997

Conference Registration	7:30AM - 12:00PM
Morning Conference Sessions	8:45AM - 12:00PM
Exhibition Hours	10:00AM - 1:00PM
Optional Workshops	1:00 p.m. - 5:00PM
Exhibitor Teardown	2:00 p.m. - 8:00PM

Friday, January 31, 1997

Optional Workshops	8:00AM - 5:00PM
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ORGANIZING SPONSORS:



**American
Petroleum
Institute**

The American Petroleum Institute (API) is the U.S. petroleum industry's primary trade association. API provides public policy development and advocacy research and technical services to enhance the ability of the petroleum industry to meet its mission which includes:

- meeting the nation's energy needs, developing energy sources, and supplying high-quality products and services
- enhancing the environmental, health, and safety performance of the petroleum industry
- conducting research to advance petroleum technology and develop industry equipment and performance standards



ASME International

Founded in 1880, the American Society of Mechanical Engineers (ASME) is a nonprofit educational and technical organization with 120,000 members worldwide. ASME International is one of the world's largest engineering societies serving its members, industry, and government by encouraging the development of new technologies and finding solutions to the problems of an increasingly global society. The Petroleum Division is one of 37 Technical Divisions of ASME, serving members with special interests in the development, production, and conversion of petroleum and natural gas resources world wide.

SUPPORTED BY:

American Society of Safety Engineers
Associated General Contractors
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Houston Advanced Research Center
Houston Area Contractor Safety Council
Houston Contractors Association
Houston Engineering & Scientific Society
Houston Hispanic Chamber of Commerce
Instrument Society of America (I.S.A.) Pipeline Subsection
Industrial Safety Training Council
NACE International
National Environmental Training Association
Pigging Products & Services Association (PPSA)
Professional Environmental Marketing Association
Society of Piping Engineers & Designers
Society of Texas Environmental Professionals
Texas Association of Environmental Professionals
Texas Bioremediation Council
Texas City Safety Council
Texas Environmental Education Advisory Committee
Texas General Land Office
Texas Natural Resource Conservation Commission
Texas Railroad Commission
Texas Safety Association
U.S. Department of Transportation
University of Houston - Clear Lake
University of Houston - Houston

**You May Already Be Registered
See Page 12 For Details**

Symposium Chairs



Environmental Issues

Katherine Beisel, Harding Lawson Associates
Pamela Roger Laborde, Vinson & Elkins L.L.P.
(Not Pictured)

The goal of this symposium is to provide today's environmental professional with a clear understanding of trends and changes in the environmental market place which will enable them to provide more efficient environmental programs. These sessions represent pieces of the total environmental puzzle, presented by experienced practitioners. Attendees will gain insight into emerging issues which are relevant to real-world applications.

Process Safety Management

Sandra Nelson Johnson, Texaco (Not Pictured)
Covered facilities are in the midst of the compliance schedule for Process Safety Management (PSM). In addition, facilities are developing plans for EPA's Risk Management Program (RPM). The eight sessions in this symposium provide a comprehensive look at the various PSM and RPM uses faced by the petroleum industry daily.

Training, Health and Safety

Mike Flory, Environmental Educational Services
There are many changes occurring in the workplace today regarding health, safety and environmental issues. Those changes and specific regulations will be presented in the symposium. Moreover, a special strand of international information will be weaved through the eight sessions on Tuesday, Wednesday and Thursday. The speakers and their background expertise are some of the finest in the industry and will provide for great two-way communication.

Emergency Response and Spill Control

Hayden Groth, Enron Oil & Gas Company
John Temperilli, Smith Environmental Technologies Corporation
Changes in regulations and the evolution of better, affordable technology used in emergency responses are the focus of this eight session symposium. Speakers include acknowledged industry experts and ranking governmental officials offering authoritative solutions to today's problems associated with implementing an emergency response plan. Attendees will learn how OSRO's function, the latest on EPA regulations, changes in NRDA operations, fire response techniques, how we have learned from our response mistakes and tools that are now available to industry that can make rapid response and clean-up faster, more effective and more efficient.

Emerging Tools for Environmental Health & Safety

Lawrence Raymond, Oracle Corporation
William Beazley, Knowledge Base International
(Not Pictured)

This symposium has been designed to bring you cutting-edge information, tools, and considerations needed to support critical decisions about environmental, health and safety management systems for your company. The ISO 14001 standards for environmental management systems have just been adopted internationally, and the API STEP Committee has recommended that member organizations incorporate flexible management systems into their organizations to improve EHS performance in a cost-effective manner. New tools, methodologies and considerations for their implementation are emerging every day. Rapid advancement of technology and practice makes many of the papers from this symposium time critical.

Remediation Issues

Doug Markley, Terra Constructors, Ltd.
This symposium will consider several current and ongoing problems encountered in the petrochemical industry today. The various sessions will cover specific topics of concern and explore the various methods available to the engineer for the study of remedial action. This symposium is a must for all engineers, either plant level or consultant.

PETRO-SAFE

TUESDAY, JANUARY 28, 1997

8:45 - 10:00AM

ENERGY WEEK Keynote Address

Philip J. Carroll, President & CEO

Shell Oil Company

Richard J. Goldstein, President

American Society of Mechanical Engineers

TUESDAY, JANUARY 28, 1997

10:45 - 12:00PM

1. Environmental Issues

Future Trends in Corporate Environmental Management

Session Chair:

Jack McVaugh, Environmental Technology & Management

Project XL: Pilot Testing the Future of Compliance Management

John Hepola, U. S. Environmental Protection Agency

Implementing an Effective ISO 14001

Environmental Management System

Jack Calhoun, Occidental Chemical

ISO 14001 Certification/The Environmentalist Viewpoint

Nancy Evans Stuckwisch, Techno Environmental Consulting

2. Process Safety Management

Process Hazards Analysis

Session Co-Chairs:

Gary Minks, Zurich-America Insurance Group

Rick Weiderstein, Phillips Petroleum

Zurich's Hazard Analysis Process

- A Systematic Team Approach

Hanspeter Frei, Zurich-America Insurance Group

Revalidation OSHA PHA's and Addressing the New

EPA RMP PHA Requirements - An Issue for 1997

Dale Crumpler, JBF Associates, Inc.

PHA Revalidations

John Alderman, P.E., Risk Reliability and Safety Engineering

3. Training, Health & Safety

Panel Discussion: Safety Compliance, and Risk Management

Session Chair:

Jim Gunter, University of Southwestern Louisiana

Loss Control Managing Systems Model

Kim Roffman, Shell Offshore, Inc.

Environmental, Health & Safety: A Systematic Approach

Herve Wilczynski, Envron

Compliance Safety

R. Radha, Prairie View A & M University

4. Emergency Response & Spill Control

ICP Integrated Contingency Planning

Session Chair:

Karen McDermott Jones, Fina Oil & Chemical Company

Federal Perspective on ICP

Karen McCormack, Environmental Protection Agency Region IV

Private Sector Perspective on ICP

Jim Overman, Dow Chemical

The State Perspective on ICP

Scott Benton, Texas General Land Office

5. Emerging Tools for Environmental Health

& Safety Management

Alternative Compliance Pathways

Session Chair:

Ira Feldman, Gt Strategies + Solutions

Compliance Management Under Consent Decrees

Lawrence P. Raymond, Oracle Corporation

Environmental Compliance Oversight

Committees Formosa Chemical

James Blackburn, Blackburn & Carter

PETRO-SAFE

PROGRAM OUTLINE									
TUESDAY, JANUARY 28				WEDNESDAY, JANUARY 29				THURSDAY, JANUARY 30	
10:45 - 12:00PM	1:30 - 2:45PM	3:15 - 4:30PM	8:45 - 10:00AM	10:45 - 12:00PM	1:30 - 2:45PM	3:15 - 4:30PM	8:45 - 10:00AM	10:45 - 12:00PM	
PETRO-SAFE									
1. ENVIRONMENTAL ISSUES									
Future Trends in Corporate Environmental Management	Audit Privilege	The International Environmental Area	KEYNOTE ADDRESS FOR PETRO-SAFE	Regulatory Update	Risk Assessment	Voluntary Cleanup Programs and Brownfields Redevelopment	Legal Perspectives	Public Involvement Success Stories	
2. PROCESS SAFETY MANAGEMENT									
Process Hazards Analysis	Risk Communication	Panel Discussion: Integrating PSM & RMP	KEYNOTE ADDRESS FOR PETRO-SAFE	Panel Discussion: Facility Siting Issues - API 752	Mechanical Integrity Issues	Human Factors	Offsite Consequence Analysis	Process Safety Issues	
3. TRAINING, HEALTH & SAFETY									
Panel Discussion: Safety Compliance and Risk Management	International Safety/Loss Management Issues	Panel Discussion: Innovative Training Methods	KEYNOTE ADDRESS FOR PETRO-SAFE	Executive Safety Development	Course Certification	DOT Update	Local Safety Council Issues	Panel Discussion: Ethics in Safety Management	
4. EMERGENCY RESPONSE & SPILL CONTROL									
ICP Integrated Contingency Planning	Tools for EHS Crisis Management	OSRO Revalidation	KEYNOTE ADDRESS FOR PETRO-SAFE	Natural Resources & NRDA	OPAQ Update	Fire Response	Lessons Learned	Spill Response	
5. TOOLS FOR IMPROVING ENVIRONMENTAL HEALTH & SAFETY MANAGEMENT									
Alternative Compliance Pathways	Environmental Management Systems Implications	Tools for Monitoring and Tracking Environmental Performance	KEYNOTE ADDRESS FOR PETRO-SAFE	Computerized Management and Documentation Systems	Safety & Health on the World Wide Web	Electronic Reporting	A Challenge: Moving Beyond Command and Control Regulation	Visit Exhibit Hall	
6. REMEDIATION ISSUES									
Lead Abatement	Innovative Technologies	Voluntary Cleanup Programs	KEYNOTE ADDRESS FOR PETRO-SAFE	Visit Exhibit Hall	Bio-Remediation	Groundwater Issues	Managing NORM	Risk Based Cleanups	

EPA Code of Environmental Management

Principles & Federal Facilities

J. Lawrence Stirling, U.S. Department of Energy

6. Remediation Issues

Lead Abatement

Session Chair:

Richard McCormack, Eagle Construction & Environmental Services

Lead - An Issue Whose Time Has Come

Joe Isaac, LBP Testing Services

Specifications & Management of Deleading Projects

Raymond Stone, S.G. Pinney & Associates, Inc.

Joe Reina, Occupational Safety & Health Administration

1:30 - 2:45PM

1. Environmental Issues

Audit Privilege

Session Chair:

Harless Benthul, Gilpin, Paxson & Bersch

Overview of the Audit Privilege; State vs. Federal Positions

Harless Benthul, Gilpin, Paxson & Bersch

Threshold Consideration in Determining

to Perform an Audit & the Scope of the Audit

Christopher B. Amandes, Prairie View A & M University

US Sentencing Guidelines

Paulette Wolfson, Prairie View A & M University

Audit Privilege from an Industry Perspective

James Kachtick, Prairie View A & M University

2. Process Safety Management

Risk Communication

Session Co-Chairs:

Bruce Gordon, Project Associates Incorporated

Janice Cleavinger, Attorney at Law

Communicating Risk to the Community

Christy Franklyn, Risk, Reliability, & Safety Engineering

Effectively Communicating Risk to the Community

Elizabeth Short, RMT/Jones & Neuse, Inc.

Risk Communication

Patty Ginsburg, Prince William Sound

Regional Citizen Advisory Council

3. Training, Health & Safety

Panel Discussion:

International Safety/Loss Management Issues

Session Chair:

Ron Sparks, Union Texas Petroleum

Stewardship of the Environment in Developing

Nations - A Drilling Fluids Perspective

Thomas Carlson, Petrofree & Petrofree

Making Sure There is a ROI on Your Training Dollar

Ray Daughjerg, Daughjerg & Associates

Maintaining Standardization of Commercial

Aviation in a Multicultural Environment

Dennis Drozd, Era Aviation

Cultural Issues: Capitalizing on International

Experiences to Improve Your Business

Connie Maxfield, Maxfield Production Company

Designing Computer Assisted Training for Global Use

Kenneth Volgman, Information Development, Inc.

System Implementation in Developing Nations

Brian Winterton, United Resource Safety

4. Emergency Response & Spill Control

Tools for EHS Crisis Management

Session Chair:

John Temperilli, Smith Environmental Technologies Corporation

David Morris, Morris Environmental

NRI/GIS/TABS

Buzz Martin, Texas General Land Office

Discussion on OSCAR

Karen McCormack, U.S. Environmental Protection Agency

5. Emerging Tools for Environmental Health

& Safety Management

Environmental Management Systems Implementation

Session Chair:

Lawrence P. Raymond, Oracle Corporation

ISO 14000 and Environmental Compliance in the USA

Ira Feldman, Gt Strategies + Solutions

REGISTER EARLY AND SAVE...
SEE PAGE 46

PETRO-SAFE
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Conference Committee

Janice Cleavinger Attorney at Law	Melanie Miller Media Consultants
Michael Gibson Bayko Gibson Carnegie Hogan Schoonmaker	Chuck Wolf Media Consultants
Teri Mathis Biotex Environmental Corporation	John Sammons Newpark Environmental Services
Zach Priddy Biotex Environmental Corporation	Ralph King Occidental Chemical Corporation
Mark Gast Brown & Root Petroleum and Chemicals	Lawrence Raymond Oracle Corporation
Chanda Parker Brown & Root	Sue Rhodes-Seaso PennWell Publishing Company
Jerry Power CDI Corporation	Rick Weiderstein Phillips Petroleum
Michelle Cowherd Chevron	Bruce Gordon Project Associates Incorporated
Joyce Frassanito Durntherm, Inc.	Son Mannan RMT/Jones & Neuse Inc.
Richard McCormack Eagle Construction & Environmental Services	Elizabeth Short RMT/Jones & Neuse Inc.
Ray Player Eastman Chemical Company, Texas Eastman Division	John Alderman RRS Engineering
Hayden Groth Enron Oil & Gas Company	Ray Colvin Safety Training Dynamics, Inc.
Warren Smith Environmental Management Contractors, Inc.	Rosemary Colvin Safety Training Dynamics, Inc.
Jack McVaugh Environmental Technology & Management	Manny Gonzales Santana Resources
Richard Bost ERM-Southwest	Harry West Shawnee Engineers
Robert Perry ERM-Southwest	John Temperilli Smith Environmental Technologies Corporation
Fred McCarthy Exxon Environmental & Safety	Richard Seay Star Enterprises
Robert Holt Fine Oil & Chemical Company	Doug Markley Terra Constructors, Ltd.
Karen McDermott Jones Fine Oil & Chemical Company	Sandra Johnson Toxaco
William Allison Gardere Wynne Sewell & Riggs	Kevin Grice Toxaco Exploration & Production, Inc.
Kevin Colbert Gardere Wynne Sewell & Riggs	Gabriel Lugo Texas General Land Office
Steve Pepper Georgia Gulf Corporation	Ron Sparks Union Texas Petroleum
Nariess Benthel Bilglo, Parson & Bersch	Gerald Lund University of Southwestern Louisiana
Tom Petrie GT Environmental	Jim Guntar University of Southwestern Louisiana
Ira Feldman Gt. Strategies + Solutions	C. Dale Zina University of Texas
Katherine Belsel Harding Lawson Associates	Lisa Jenkins U.S. Environmental Protection Agency
Tom Ellison Howell Petroleum Corporation	Karen Shanahan U.S. Environmental Protection Agency
Joe Clark Industrial Safety Training Council	Pamela Roger Laborde Vinson & Elkins L.L.P.
Pamela Grantham J. Connor & Associates	Izzy Perez Warren-Forthought Inc.
William Beazley, PhD. Knowledge Base International	Terry Brannon Warren Petroleum Company
Jerry Smith Louisiana State University	Gary Miska Zurich-American Insurance Group



Managing Director
Richard Kern
Briarpark Specialty Risk, Inc.



Director
Richard Spell
International Paper

Eco-Management & Audit System

Peter Wilson, Expert to the European Commission

ISO 14000 Certifications Process in Canada, USA, and NAFTA

Grant Trump, Canadian Council for Human Resources
& Environmental Industry

6. Remediation Issues Innovative Technologies

Session Chair:

Doug Markley, Terra Constructors, Ltd.

Advanced Thermal Desorption Recycling - A Technology for the Long Term Solution

Robert Henset, DuraTherm

Remediation of Multi-Phase Petroleum Hydrocarbon Contamination at a Bulk Terminal Facility

Patrick Hicks, Fluor Daniel GTI

Emulsion Separation Rate Enhancement with High Frequency Energy

Ed Peterson, Imperial Petroleum Corporation

3:15 - 4:30PM

1. Environmental Issues

The International Environmental Arena

Session Chair:

John Sammons, Newpark Environmental Services

Formulations of Air Regulations for Mexico, Argentina or Brazil

Esther Ruiz, Institute Mexicano del Petroleo

2. Process Safety Management

Panel Discussion: Integrating PSM & RMP

Session Chair:

Sam Mannan, RMT/Jones & Neuse, Inc.

Panelists:

Lyse Helsing, U.S. Environmental Protection Agency
Russ Elveston, Occupational Safety & Health Administration
Steve Mason, U.S. Environmental Protection Agency
Joe Westmoreland, Texaco
George King, Dow

3. Training, Health & Safety Innovative Training Methods

Session Chair:

Ray Player, Eastman Chemical Company, Texas Eastman Division

CBT: Myth or Magic?

Neil Blahut, Warren-Forthought, Inc.

Improving Employee Performance

Roger Hunt, Fluor Daniel, Inc.

Making the Connection Between Computerized Based Training and Electronic Document Management Systems

Jennifer Pearson, AcuTech Consulting, Inc.

General Correlation for the Incident Solar Radiant Energy in the South

Ray Player, Eastman Chemical Company, Texas Eastman Division

4. Emergency Response & Spill Control Panel Discussion - OSRO Recertification & Response Network Changes

Session Chair:

Manny Gonzalez, Santana Resources

Representatives from:

DEMS, NRC, MSRC, Clean Gulf, Clean Channel



5. Emerging Tools for Environmental Health & Safety Management

Tools for Monitoring and Tracking Environmental Performance

Session Chair:

Fred McCarthy, Exxon Environmental & Safety

Environmental Performance Indicators

Fred Hart, The Hart Partners, Inc.

Environmental Performance Indexing

Stephen Poltorzycki, Arthur D. Little, Inc.

Tools for Monitoring Environmental Conditions

Dr. David Cocke, Lamar University

6. Remediation Issues

Voluntary Cleanup Programs

Session Chair:

Robert Perry, ERM - Southwest

Environmental Liability Protection and Other Advantages of the Voluntary Cleanup Program: Three Case Studies

Richard Bost, ERM - Southwest

The TNRCC Voluntary Cleanup Program

- Jurisdictional and Other Legal Aspects

Robin Morse, Crain, Calone & James

WEDNESDAY, JANUARY 29, 1997

8:45 - 10:00AM

PETRO-SAFE Keynote Address

Jim Makris, Director, Chemical Emergency Preparedness
& Prevention Office U.S. Environmental Protection Agency

10:45 - 12:00PM

1. Environmental Issues

Regulatory Update

Session Chair:

Michelle Cowherd, Chevron

An Overview of HWIR

Rene Braud, Attorney at Law

What's New in Superfund Administrative Reforms

David Bennett, Ph.D., U.S. Environmental Protection Agency

The Changing Agenda in the Operating Permit Program

Ron Berglund, Harding Lawson Associates

The Federal Perspective on ASTM/Partners

In Risk Assessment Implementation

Steve McNeely, Office of Underground Storage Tanks

2. Process Safety Management

Panel Discussion: Facility Sitting Issues - API 752

Session Co-Chairs:

Ralph King, Occidental Chemical Corporation

John Alderman, RRS Engineering

Panelists:

Bob Cox, Texaco

John Hancock, Conoco

Steve Pepper, Georgia Gulf

Scott Ostowski, Exxon Chemical

Ephraim Scheir, Occidental Chemical Corporation

3. Training, Health & Safety

Executive Safety Development

Session Chair:

Mark Guest, Brown & Root Petroleum and Chemicals

The Development of Effective Executive Safety Leadership

Randy Walker, Brown & Root Petrochem and Chemicals

Creating Incident Free Work Sites Executive Leadership

Geoffrey Gioja, JMJ Associates

Concerns for Health, Safety and the Environment are not Options

Wl (Irv) Doty, Shell Oil Company

4. Emergency Response & Spill Control Natural Resources & NRDA

Session Chair:

Pamela Grantham, J. Connor & Associates

Federal Perspective on Contingency Planning

Brian Cain, U.S. Fish & Wildlife Service

Rehab for Mammals & Birds

Sharon Schmalz, Wildlife Rehab & Education

NRDA Planning

Bob Nailon, Entrix

5. Emerging Tools for Environmental Health & Safety Management

Computerized Management and Documentation Systems

Session Chair:

Izzy Perez, Warren-Forthought, Inc.

Common Pitfalls of Environmental Information Systems

Paul Espenan, Brown & Root Petroleum and Chemicals

Controlling PSM Documentation

Jennifer Pearson, AcuTech Consulting, Inc.

Compliance Management Systems

Lawrence P. Raymond, Oracle Corporation

1:30 - 2:45PM

1. Environmental Issues

Risk Assessment

Session Chair:

William Allison, Gardere Wynne Sewell & Riggs

Overview of Risk Based Remediation

Dr. Ben Thomas, Compliance Solutions, Inc.

Risk Based Corrective Action and Intrinsic

Remediation - Good New and Bad

Dr. Bert Fisher, Gardere Wynne Sewell & Riggs

The Harmonized Risk Rule

John Connor, Groundwater Services

Uses and Abuses of Risk

Richard Sloan, ARCO Chemical

2. Process Safety Management

Mechanical Integrity Issues

Session Co-Chairs:

Richard L. Seay, Star Enterprise

Jerry Power, CDI Corporation

Mechanical Integrity Program Requirements & Development

Holley Baker, II, CDI/MTI Corp.

Mechanical Integrity Prevents Catastrophic Incidents

Eric Kihne, RMT/Jones & Neuse, Inc.

Effective Development and Continued Implementation of Mechanical Integrity Programs

Douglas Sharp, General Physics Corporation

3. Training, Health & Safety

Course Certification

Session Chair:

Gerald Lund, University of Southwestern Louisiana

Training Course Registration & Certification

Warren Graef, Safety & Environmental Consulting

Course Certification

Steve Kropla, International Association of Drilling Contractors

Training Accreditation

Tom Bresnehan, American Society of Safety Engineers

4. Emergency Response & Spill Control OPA90 Update

Session Chair:
John Temperilli, Smith Environmental Technologies Corporation
Representative from Shell Marine

Drill Prep
J.T. Ewing, Texas General Land Office

Chemical Implications Under OPA90
Representative from the 8th District - U.S. Coast Guard

5. Emerging Tools for Environmental Health & Safety Management Safety and Health on the World Wide Web

Session Chair:
Lisa Jenkins, U.S. Environmental Protection Agency
EPA's Use of the World Wide Web
Karen Shanahan, U.S. Environmental Protection Agency
Safety and Health on the World Wide Web
John B. Chapman, Information Assels, Inc.
MSDS Web Server
Bill Fernihough, BC Hydro

6. Remediation Issues Bio-Remediation

Session Chair:
Teri Mathis, Biotex Environmental Corporation
Bioaugmentation for the Treatment of Oilfield Drilling Waste
Terry Barber, BioGee International, Inc.
Overview of the Genetic Basis of Bioremediation
Jessie Austin, University of Texas School of Public Health
**In Situ Bioremediation of Petroleum Hydrocarbons
and Chlorinated Hydrocarbons: Three Case Studies**
Richard Bost and Robert G. Perry, ERM Southwest
and Trey Barber, BioGee International, Inc.

3:15 - 4:30PM

1. Environmental Issues Voluntary Cleanup Programs and Brownfields Redevelopment

Session Chair:
Katherine Beisel, Harding Lawson Associates
Overview of the Voluntary Cleanup Act
Bruce Bodson, Harding Lawson Associates
EPA Brownfields Initiative: Municipal Involvement
Mary Ellen Whitworth, City of Houston

2. Process Safety Management Human Factors

Session Co-Chairs:
Sandra Johnson, Texaco
Steve Pepper, Georgia Gulf Corporation
**P&ID's Are Not Displays, So Don't
Make Displays look Like P&ID's**
David Strobhar, Beville Engineering
The Application of Human and Organizational Factors (HOT)
Gerry Miller, G.E. Miller & Associates
**Applications of Ergonomics in Space Program
- A Hazardous Environment**
Sudhakar Rajulu, Lockheed Martin Engineering

3. Training, Health & Safety DOT Update

Session Chair:
Tom Ellison, Howell Petroleum Corporation
**Update: What Can U.S. Companies Expect
from Cross-Border Trucking Under NAFTA**
H. Erwin Wood, Transportation Solutions

**Summary of the EPA's 'The National Response Team's
Integrated Contingency Plan Guidance'**
John Williams, Bayko Gibson Carnegie Hagan Schoonmaker
Current North American DOT Update
Dan Healy, Econ Inc.

4. Emergency Response & Spill Control Fire Response

Session Chair:
Jerry Smith, Louisiana State University
Large Response Preparation
Dwight Williams, Williams Fire Control
Tank Farm Fires
Dave Cochran, Boots & Coots

5. Emerging Tools for Environmental Health & Safety Management Electronic Reporting

Session Chair:
Karen Shanahan, U.S. Environmental Protection Agency
EPA's RMP Electronic Reporting Working Group
Karen Shanahan, U.S. Environmental Protection Agency
NAVSUP's Use of EDI for MSDS Delivery
George Ganak, NAVSUP
TNRCC Electronic Reporting
Doug Benn & Layton Jones,
Texas Natural Resource Conservation Commission

6. Remediation Issues Groundwater Issues

Session Co-Chairs:
Teri Mathis, Biotex Environmental Corporation
Doug Markley, Terra Constructors, Ltd..
Construction of a Funnel/Gate Groundwater Treatment System
Kent O'Brien, Geraghty & Miller, Inc.
Humisorb - A New Subsurface Barrier Material
Harry Johnson Arctech, Inc.
**Performance Comparison Between a Horizontal and a Vertical
Air Sparging Well: A Full-Scale One-Year Pilot Study**
A. Wade, Woodward - Clyde Consultants

THURSDAY, JANUARY 30, 1997
8:45 - 10:00AM

1. Environmental Issues Legal Perspectives

Session Chair:
Kevin Colbert, Gardere Wynne Sewell & Riggs
Reforming an Abusive System
Richard Faulk, Gardere Wynne Sewell & Riggs
Case Histories in LPST Litigation
James Cawley, Jr., Shell Oil Company
Air Dispersion Modeling
Mary E. Wilson, Gilpin, Paxson & Bersch

2. Process Safety Management Offsite Consequence Analysis

Session Chair:
Elizabeth Short, RMT/Jones & Neuse, Inc.
Defining Alternative Scenarios
Using Existing PSM Documentation
Kathryn Bryan, Consultant
**Modeling of Offsite Consequences for Accidental
Releases of Hazardous Material**
Joseph Chang, Earth Tech, Inc.
**Off-Site Consequence Analysis Scenario
Development and Model Selection**
Lee Pyle, Tracer Environmental Sciences & Technologies

3. Training, Health & Safety Local Safety Council Issues - Contractor Safety Training Reciprocity

Session Chair:
Terry Brannon, Warren Petroleum Company
Panelists:
Fred Connell, Houston Area Contractors Safety Council
Randy Giesler, Contractors Safety Council of the Coastal Bend
R. Ronald Sokol, Contractors Safety Council of Texas City

4. Emergency Response & Spill Control Lessons Learned

Session Chair:
Hayden Groth, Enron Oil & Gas Company
Timbellier Bay Response
John Rosata, Greenhill Petroleum
Buffalo Spills - Galveston Bay
Comdr. Kutz, U.S. Coast Guard
and Richard Arnhart, Texas General Land Office
Corpus Christi Cumene Spill
Captain Thomas Rodino, U.S. Coast Guard - Marine Safety Office

5. Emerging Tools for Environmental Health & Safety Management A Challenge: Moving Beyond Command and Control Regulation

Session Chair:
Janice Cleavinger, Attorney at Law
**Environmental Leadership Management:
Legal & Strategic Considerations**
Edward Quevedo, Wise & Shepard, L.L.P.
**Overcoming Cultural Barriers to ENS
Management System Implementation**
Brian E. Doll, Mobil Oil Corporation
**Expansion into the International Marketplace:
An Environmental and Legal Challenge for
Multinational Companies**
Claire Guglielmi, Jacobson, Guglielmi & McInnis, L.L.P.

6. Remediation Issues Managing NORM

Session Chair:
Kevin Grice, Texaco Exploration & Production, Inc.
**Managing a Potentially High Profile
NORM Containing Remediation Project**
Roger Hadley, Texaco
**Negotiating Appropriate and Protective NORM Cleanup
Standards: Practical Use of Risk Assessment and Cost
Benefit Analysis**
Allen Blanchard, Radiation Consulting Services
Managing NORM in a Petrochemical Plant
Robert Powell, Exxon Chemical Americas
**On-site Treatment of NORM Waste for Surface Disposal
in Texas Under Texas Railroad Commission Rule 94**
Mark Landress, Growth Resources

10:45 - 12:00PM

1. Environmental Issues Public Involvement Success Stories

Session Chair:
Katherine Beisel, Harding Lawson Associates
**Consensus Building in the Galveston
Bay National Estuary Program**
James W. Kachtick, Occidental Chemical

Public Involvement in Environmental Restoration
Major Michael Ulekowski, Black & Veatch
and Captain Patrice Melancon, AFCEP

**Cooperative Partnerships Between the Petroleum Industry
and Environmental, Educational and Community Groups**
Walter Retasoh, American Petroleum Institute

2. Process Safety Management Process Safety Issues

Session Co-Chairs:
Harry West, Shawnee Engineers
C. Dale Zinn, University of Texas

**Refinery Wide Firewater System Hydraulic Model
Generation and Maintenance Experience**
Kenneth Sanders, Hopper and Associates

Mechanical Integrity Prevents Catastrophic Incidents
E.J. Kihne, RMT/Jones Neuse, Inc.

**PSM Implementation: The Partnership Role of ASME & API
in Developing Standards for the Exchange of Data Between
Existing Plant Owners and Vendors**
Harry Lee, Santasan International

Effectively Communicating Risk to the Community
Elizabeth Short, RMT/Jones & Neuse, Inc.

**Screening Schemes are Required for Selecting the
Appropriate Process Hazards Analysis Technique**
Harry H. West, Shawnee Engineers
and C. Dale Zinn, University of Texas

3. Training, Health & Safety Panel Discussion: Ethics in Safety Management

Session Chair:
Ray Colvin, Safety Training Dynamics, Inc.
Ethics in Safety Management - A
Rev. William Sommerville, Villanova University
Ethics in Safety Management - B
Charles Wexler, Jr., Safety Training Dynamics, Inc.
Ethics in Safety Management - C
Ray Colvin, Safety Training Dynamics, Inc.

4. Emergency Response & Spill Control Spill Response

Session Chair:
Gabriel Lugo, Texas General Land Office
Dispersants
Bea Stong, B-T Consulting Group
InSitu Burn
Manny Gonzalez, Santana Resources
SCAT
Dr. Robert "Buzz" Martin, Texas General Land Office and
Dr. Bonner, Texas A & M University

6. Remediation Issues Risk Based Closures

Session Co-Chairs:
Warren Smith, Environmental Management Contractors, Inc.
Chandra Parker, Brown & Root
**A Demonstration of Risk-Based Assessment and
its Role in Corrective Action Decision Making**
Sherry White, Delta Environmental Consultants, Inc.
Risk-Based Corrective Action for MTBE Contaminated Sites
Herberto Robles, Environmental Science & Engineering, Inc.

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Symposium Chairs



Pipelines, Terminals & Storage - Engineering
Bill Flanders, Alyeska Pipeline Service Company
Travis Stripling, Brown & Root, Inc.

The Pipeline Engineering Symposium this year focuses on extending pipeline operating life with reduced environmental cost. This year's sessions achieve this goal by addressing: Risk Management, Pipeline Integrity, Optimization, Nondestructive Examination, Simulation, and New Technology. The papers will provide an excellent record of new and innovative technology and are supplemented by discussions with subject matter experts.



Pipelines, Terminals & Storage - Operations

Peggy Gibson, Jofree Corporation
From Internal Corrosion to Instrument Controls & Metering, this symposium has something of interest for everyone. Each session is chaired by knowledgeable individuals in the various fields represented. The sessions range from talks on Internal Corrosion, Cathodic Protection, Operational Piggings, Intelligent Piggings, Business and Regulatory Matters, to Instrumentation Controls and Metering. Pipeline operations is covered thoroughly and expertly through these sessions and each speaker is uniquely qualified in their particular field to take on the tough and demanding issues of pipeline operations.



Conference Committee

Bill Flanders
Alyeska Pipeline Service Co.

Dwight Young
Arco Pipeline

Travis Stripling
Brown & Root, Inc.

Gerald Brown
Brown Corrosion Services

Jane Brown
Brown Corrosion Services

Ron Kassing
Daniel Valve Company

Kenneth Zipp
El Paso Field Services

Harold Fisher
Girard Industries, Inc.

Gary Tesch
HMT, Inc.

Mike Click
HMT, Inc.

Peggy Gibson
Jofree Corporation

Bryan Hoskins
Linco-Electromatic Measurement, Inc.

Chuck O'Leary
Modisette Associates, Inc.

Matt Lewis
Pipetronix

Marina Smith
Southwest Research Institute

Stephen Grigory
Southwest Research Institute

Bill Matney
Texas A & M Extension Service

Jim Keller
Trigon Engineering

Bob Holter
U.S. Department of Transportation

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& STORAGE**
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PIPELINES, TERMINALS & STORAGE

TUESDAY, JANUARY 28, 1997
10:45 - 12:00PM

1. Pipelines, Terminals & Storage - Engineering Pipeline Integrity

Session Chair:

Marina Smith, Southwest Research Institute

Analysis of Composite Repair Methods for Pipeline Mechanical Damages Subjected to Cyclic Loading
Christopher Alexander, Stress Engineering Services, Inc.

Repair of Dents Combined with Gouges Considering Cyclic Pressure Loading
Christopher Alexander, Stress Engineering Services, Inc.

Pipeline Rehabilitation Planning
William Marshall P.E., Mears/CPG, Inc.

2. Pipelines, Terminals & Storage - Operations Internal Corrosion

Session Chair:

Gerald Brown, Brown Corrosion Services

Monitoring for Localized Corrosion in Water and Crude Oil Pipelines
Dennis Cross, Cortap

Predicting Corrosivity of CO₂/H₂S Production and Transmission Environments
Sridhar Srinivasan, CLI International, Inc.

Corrosion Risk Assessment of Pipelines
John S. Smart, III, Consulting Engineering

1:30 - 2:45PM

1. Pipelines, Terminals & Storage - Engineering Risk Management and Assessment: I

Session Chair:

Jim Keller, Trigon Engineering

An Insurers' Perspective on Pipeline Risk Management
Robert Eddy, Hartford Steam Boiler Inspection & Insurance Company

Proactive/Integrated Approach for Pipeline Risk Assessment & Management
Tom Kline, M.J. Harden Associates

PRS - A Priority Ranking System for Managing Pipeline Integrity
Arthur Hodgdon, Fluor Daniel Williams Brothers

2. Pipelines, Terminals & Storage - Operations Cathodic Protection

Session Chair:

Gerald Brown, Brown Corrosion Services

Isolating Cathodically Protected Structures from Power Utility Grounding Systems
Henry Tachick, Dairyland Electrical Industries

Case Histories of MIC
Joe Pikas, Transco

Designing for Underground Corrosion Control
Ralph Stephens, P.E., Cathodic Protections Services Co.

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PIPELINES, TERMINALS & STORAGE

PROGRAM OUTLINE									
TUESDAY, JANUARY 28				WEDNESDAY, JANUARY 29			THURSDAY, JANUARY 30		
10:45 - 12:00PM	1:30 - 2:45PM	3:15 - 4:30PM	8:45 - 10:00AM	10:45 - 12:00PM	1:30 - 2:45PM	3:15 - 4:30PM	8:45 - 10:00AM	10:45 - 12:00PM	
PIPELINES, TERMINALS & STORAGE									
1. PIPELINES, TERMINALS & STORAGE - ENGINEERING									
Pipeline Integrity	Risk Management and Assessment I	Risk Management and Assessment II	Pipeline Optimization /Automation	Pipeline Simulation	Nondestructive Examination I	Nondestructive Examination II	New Technology & Research I	New Technology & Research II	
2. PIPELINES, TERMINALS & STORAGE - OPERATIONS									
Internal Corrosion	Cathodic Protection	Operational Piggings	Pipeline & Leak Detection	Instrumentation Controls & Metering	Intelligent Piggings	Visit Exhibit Hall	Panel Discussion: Impact of New Orders & Business Practices	Visit Exhibit Hall	

3:15 - 4:30PM

1. Pipelines, Terminals & Storage - Engineering Risk Management and Assessment: II

Session Chair:

Jim Keller, Trigon Engineering

Pipeline Leak Prevention and Problem Location - A Novel Approach
Jack Taylor, National Pipeline Technologies

Risk Management Demonstration Projects
Bruce Hansen, RSPA/Office of Pipeline Safety

2. Pipelines, Terminals & Storage - Operations Operational Piggings

Session Chair:

Harold Fisher, Girard Industries, Inc.

Pigging: Unpiggable Pipelines
Glenn Cameron, Exxon Co.

The Art of Piggings
Harold Fisher, Girard Industries, Inc.

Chemical Cleaning of Lines
Brent Cross, Coastal Fluid Technologies, Inc.

WEDNESDAY, JANUARY 29, 1997
8:45 - 10:00AM

1. Pipelines, Terminals & Storage - Engineering Pipeline Optimization/Automation

Session Chair:

Travis Stripling, Brown & Root, Inc.

Alternative Fuels Flow Measurement (LNG & CNG) - By Turbine Flowmeter
Sandra Kelly, Hoffer Flow Controls, Inc.

Novel Technique (Bovar Western Research Model 214) In Measurement of Hydrocarbon & Water Dewpoints of a Natural Gas Stream
Vinnie Sodhi, Bovar Western Research

Some Causes and Effects of Discontinuities in Modeling and Optimizing Gas Transmission Networks
Richard Carter, Stoner Associates, Inc.

2. Pipelines, Terminals & Storage - Operations Pipeline & Leak Detection

Session Chair:

Chuck O'Leary, Modisette Associates, Inc.

On-Line Modeling a Diamond in the Rough
John Yurchevich, Stoner Associates, Inc.

Establishing a SCADA System Budget
Al Sentleber, Sentleber & Associates

Applications of Real-Time Pipeline Station Models
Jerry L. Modisette, Modisette Associates, Inc.

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10:45 - 12:00PM

1. Pipelines, Terminals & Storage - Engineering Pipeline Simulation

Session Chair:

Kenneth Zipp, El Paso Field Services

Multi-Phase Network Flowlines Design in Hilly Terrain
Raghanath Prasad, Brown & Root, Inc.

Overpressure Protection of Long Flowline Networks in Flat or Hilly Terrain
Patrick Greaney, Brown & Root, Inc.

Check Valve Modeling Using Artificial Neural Networks
Bob Kellum, Stoner Associates

2. Pipelines, Terminals & Storage - Operations Instrumentation, Controls & Metering

Session Chair:

W. Bryan Hoskins, Linco-Electromatic Measurement, Inc.

New Advancements in Custody Transfer Liquid Measurement Open Panel Discussion with representatives from oil producing & transportation companies and manufacturers.

Topics Include:

Coriolis Meters for LACT and Crude Oil Gathering Systems
Turbine Meters on High and Multi-Viscosity Applications
New High Performance Flow Conditioning Devices
New Concepts in Installing Custody Transfer Flow Computers

1:30 - 2:45PM

1. Pipelines, Terminals & Storage - Engineering Nondestructive Examination I

Session Chair:

Bob Holter, U.S. Department of Transportation

Batching/Pipetronix Ultrasonic Pig
John Wilder, Jr., Union Pacific Resources Company

Technologies Applicable to In-Line Evaluation of Pipe Wall Stress
Alfred Crouch, Southwest Research Institute

Maximizing the Accuracy of MFL In-Line Inspection Results
Mark Bohon, ARCO Alaska, Inc.

2. Pipelines, Terminals & Storage - Operations Intelligent Piggings

Session Chair:

Matt Lewis, Pipetronix

Intelligent Piggings of Pipelines: A Turnkey Approach
M. Beller, U. Hettrich, Pipetronix GmbH

Columbia Gas' Practices and Experiences Using MFL Pigs for Corrosion
Terry Shamblin, Columbia Gas Transmission Corp.

Quantitative Field Evaluation of Magnetic-Flux Leakage and Ultrasonic In-line Inspection
Al Crouch, Southwest Research Institute, Richard Anglisano, Brooklyn Union Gas and Mohammed Jaarah, Pipetronix Ltd.

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3:15 - 4:30PM

1. Pipelines, Terminals & Storage - Engineering Nondestructive Examination II

Session Chair:

Bill Flanders, Alasyka Pipeline Company

A Round Robin NDE Test Series for Sizing Radial Imperfection Depth in Steel Tubulars and Line Pipe

Alan Bray, TRI, Austin

Pipeline Defect Evaluation

Sam Kannappan, GDS Inc.

In-Line Measurement of Pipeline Stress

Alfred Crouch, Southwest Research Institute

THURSDAY, JANUARY 30, 1997

8:45 - 10:00AM

1. Pipelines, Terminals & Storage - Engineering New Technology & Research II

Session Chair:

Ron Kassing, Daniel Valve Company

Pipeline Failure Investigations: Analytical Techniques and Case Studies

Brian Wilson, Canspec Materials Engineering and Testing

Pipeline Wall Thickness/Design Pressure Formulation

GIE Study, Superb Project and ASME Codes Comparison

Boris Taksa, Gulf Interstate Engineering

New Method Reduces Leaks in Liquid Pipelines

Thomas Anderson, Anderson Consultants

2. Pipelines, Terminals & Storage - Operations

Panel Discussion:

Impact of New Orders & Business Practices

Session Chair:

Peggy Gibson, Jofree Corporation

Carol Freedenthal, Jofree Corporation

Margaret Carson, Enron Corporation

10:45 - 12:00PM

1. Pipelines, Terminals & Storage - Engineering New Technology & Research II

Session Chair:

Ron Kassing, Daniel Valve Co.

Development and Use of a Laser-Based

Pipeline Corrosion Assessment System

William Brueg, Edison Welding Institute

Calculation of Sound Pressure Levels Due

to Isentropic Free Expansion in a Pipeline

Rick Tavares, Ogden Environmental & Energy Services

Sands: Solids Monitoring Using Acoustic Sensors

Gerald Brown, Brown Corrosion Services

ENERGY WEEK - Student Paper Competition -

To introduce senior and graduate level engineering students to the energy industry and provide support for engineering education, the ASME-Petroleum Division is sponsoring an ENERGY WEEK Student Paper Competition.

Scholarship Funds Available

Scholarship funds are offered to the winning students and their engineering departments, as well as some travel expenses to assist students or teams attending and presenting the winning papers in an ENERGY WEEK '97 conference session.

Topics

Papers must relate to one or more of the following areas of the ENERGY WEEK conference:

- Computers In Engineering
- Drilling
- Emerging Energy Technology
- Environmental/Safety Concerns
- Project Management
- Transportation
- Materials
- Offshore Operations
- Plant Engineering & Reliability
- Oil & Gas Production
- Structural Dynamics & Vibration
- Tribology
- Heat Transfer
- Cryogenics
- Pipeline Engineering
- Non-Destructive Evaluation Engineering

Entries

Senior and graduate level students are eligible for the competition. At least one member of each team must be an ASME member in good standing at the time of receipt of entry by the Petroleum Division and at the time of presentation of any awards. Other rules and restrictions of the competition also apply.

Deadline

All entries for the 1997 competition must be received in the Petroleum Division office by December 11, 1996.

FOR MORE DETAILS OR INFORMATION ON ENTERING THE COMPETITION, CONTACT THE ASME PETROLEUM DIVISION OFFICE AT 1.713.493.3491.

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K. W. BROWN ENVIRONMENTAL SERVICES

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KOCH INDUSTRIES, INC.

LAW ENGINEERING & ENVIRONMENTAL SERVICES

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OGDEN ENVIRONMENTAL

OKY, USA

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Symposium Chairs



Leo Aalund, Anne Rhodes & Warren True
Oil & Gas Journal
 The Processing & Refining Conference, presented by Oil & Gas Journal, will include sequential sessions examining hardware and software innovations in the refining, gas processing, and olefins industries. Processors, engineering companies, and consultants will discuss innovative technologies such as gasification, solid-acid catalyzed alkylation, and custom catalyst manufacturing. In addition, timely issues including process control, sulfur removal, and storage tank management will be discussed. In a session on petrochemicals, industry experts will reveal their outlooks for olefins supply/demand and ethylene technology trends.



Conference Committee

Sorab Vatcha
Consultant

Del Tolen
D. F. Tolen & Associates

James Childress
Gasification Technologies Council

Leo Aalund
Oil & Gas Journal

Anne Rhodes
Oil & Gas Journal

Warren True
Oil & Gas Journal

Dale Simbeck
SFA Pacific



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TUESDAY, JANUARY 28, 1997
 10:45 - 12:00PM

Gasification

Session Chair:

Dale Simbeck, SFA Pacific

Gasification Technology Overview

Claus-Peter Naelsig, Fluor Daniel B.V.

Texaco's Gasification Process

John Brady, Texaco Inc.

The Shell Gasification Process (SGP)

Nick Hauser, Shell Synthetic Fuels, Inc.

1:30 - 2:45PM

Gasification (continued)

Session Chair:

Leo Aalund, Oil & Gas Journal

Outlook for Supply and Pricing of Petroleum Coke

Horace Hobbs, Ernst & Young Wright Killen

Gasification Trends

Dale Simbeck, SFA Pacific

3:15 - 4:30PM

Custom Catalyst Manufacturing

Session Chair:

Del Tolen, D.F. Tolen & Associates

Hydroprocessing Catalysts Development and Manufacturing

Pankaj Desai, Akzo Nobel Chemicals, Inc.

UOP's Custom Catalyst Business

John Hammerman, UOP

FCC Catalysts

Dave Desantis, Engelhard Corp.

WEDNESDAY, JANUARY 29, 1997
 8:45 - 10:00AM

Alkylation

Session Chair:

Del Tolen, D.F. Tolen & Associates

Solid Acid Catalyst Alkylation: Catalyst, Process Features, R&D Guidelines

Dr. Sorab Vatcha, Consultant

Fixed-Bed Alkylation: Haldor Topsøe's First Commercial Plant Design

Phil Geren, Haldor Topsøe, Inc.

10:45 - 12:00PM

Refinery Process and Data Management

Session Chair:

Anne Rhodes, Oil & Gas Journal

TotalPlant

Representative from Honeywell Inc.

Fisher-Rosemount's PlantWeb System for Refinery Information Management

Scott McLagan, Fisher-Rosemount

Foxboro's I/A Series Open Module Controller

Dick McAllister, The Foxboro Co.

PROCESSING & REFINING

PROGRAM OUTLINE

TUESDAY, JANUARY 28			WEDNESDAY, JANUARY 29				THURSDAY, JANUARY 30	
10:45 - 12:00PM	1:30 - 2:45PM	3:15 - 4:30PM	8:45 - 10:00AM	10:45 - 12:00PM	1:30 - 2:45PM	3:15 - 4:30PM	8:45 - 10:00AM	10:45 - 12:00PM
PROCESSING & REFINING - PRESENTED BY OIL & GAS JOURNAL								
Gasification	Gasification (continued)	Custom Catalyst Manufacturing	Alkylation	Refinery Process and Data Management	Storage Tank Management	Petrochemicals	Gas Processing I	Gas Processing II

1:30 - 2:45PM

Storage Tank Management

Session Chair:

Leo Aalund, Oil & Gas Journal

Expedited Internal Inspection

Phillip Myers, Chevron Research & Technology

Aboveground Storage Tank Emissions

Rob Ferry, TGB Partnership

3:15 - 4:30PM

Petrochemicals

Session Chair:

Anne Rhodes, Oil & Gas Journal

Global Olefin Supply/Demand Outlook

Tom Wisner, Pace Consultants

Ethylene Feedstock Trends

James Cutler, Petral Worldwide

Advances in Ethylene Technology

Marcello Picciotti, TECHNIP, Paris & Technipetrol, Rome

THURSDAY, JANUARY 30, 1997
 8:45 - 10:00AM

Gas Processing I

Session Chair:

Warren True, Oil & Gas Journal

Long Term Overview of U.S. NGL Supply/Demand Trends

Dan Lippe, Petral Worldwide, Inc.

Strategies for Handling Title V and MACT Compliance Issues in the Natural Gas Processing Industry

Curtis Rueter, Radian International LLC

New Membrane Process for NGL Recovery and Hydrocarbon Dewpoint Control

Kaaeid A. Lokhandwala, Ph.D., Richard W. Baker, & Hans Wijmans, Membrane Technology and Research, Inc.

10:45 - 12:00PM

Gas Processing II

Session Chair:

Warren True, Oil & Gas Journal

Improved H₂S Caustic Scrubber

Stuart M. Heisler, P.E., T.J. Cross Engineers, Inc. and Rick B. Cassinis, Pete Jongbloed and Sean J. Massey, P.E., Tidelands Oil Production Co.

Control Innovations in Gas Processing

P. N. Berkowitz, Continental Controls, Inc.

Selection of Hydrate Suppression Methods for Gas Streams

Michael W. Hlavinka and Kim Covington, Bryan Research & Engineering, Inc. and Jerry A. Butlin, Texas A & M University

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Symposium Chairs



Drilling Technology

Bobby Grimes, Hughes Christensen Co.

This symposium promises to be one of the premier forum for drilling, with a broad range of sessions covering many timely topics. The "Underbalanced Drilling" and "Coiled Tubing" sessions will highlight these technologies as they become more widespread. "New Developments in Drilling Fluids" and "Drillstrings" will be covered in other sessions. Annual favorites are "Advances in Drill Bits," and "Novel/Scientific Drilling," excellent response warranted two drill bit sessions. Finally, two new sessions will make their debut this year: "Testing, Field & Laboratory," and "Drilling Systems & Dynamics."



Petroleum Production Technology

Terry Lechinger, Stress Engineering Services, Inc.

Deepwater technology and environmental issues head the list of topics for this year's Production Symposium. The "Environmental, Health and Safety Issues" session will address some EHS issues that have made a difference in E&P towards managing the complex EHS process. Mooring systems for semi-submersibles and FPSOs will be just one of the topics addressed under "Mooring Technology," while key issues facing "flowlines" will be explored as well. Innovative approaches for surface and subsurface production will provide a primary theme for this year's presenters. Don't miss these challenging and informative presentations.



Offshore Engineering and Operations

John "Rod" King,

John Brown Engineers and Constructors

A series of sessions addressing operational considerations to be considered during project planning and engineering execution. Technical and economic discussions provide potential field developers and operators with the latest information on generating economic models for field recovery including guidelines for final field abandonment. Key considerations, in this day of ever-changing contractor market, is the placement of strategic service alliances by the owner/operator to enhance initial field development schedules and economics as well as maintain/control operational costs. Specific advances in the areas of floating and compliant structures are given as well as alternative methodologies for their transportation and installation. Emphasis has been given to deepwater developments utilizing insulated flowlines and subsea completions.

DRILLING & PRODUCTION OPERATIONS

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DRILLING & PRODUCTION OPERATIONS

TUESDAY, JANUARY 28, 1997

10:45 - 12:00PM

1. Drilling Technology

Underbalanced Drilling

Session Chair:

George Medley, Maurer Engineering, Inc.

Designing Underbalanced Drilling Operations for Dynamic Effects

Zhihua Wang, RF - Roga and Research

Advanced Compressible Fluid Models Account for Hydraulic Behavior While Drilling Underbalanced

George Medley, Maurer Engineering, Inc.

Case Studies - The Use of Rotating Control Heads (a.k.a. Rotating Blowout Preventers, Diverter-Preventers, Control Heads) in Both Categories of Underbalanced Drilling... International and Uninternational

Don Hannegan, Williams Tool Company, Inc.

2. Petroleum Production Technology

Environmental, Health & Safety Issues

Session Chair:

Charles Price, Mobil Exploration & Production U.S. Inc.

Health Management & Safety Issues in Exploration & Production

John Psencik, Mobil E&P U.S. Inc.

Simplified Air Calculations

Ken Brodnax, Mobil Exploration & Production U.S. Inc.

Environmental Waste Site Auditing Issues

Gary Penn, Penn Environmental Consultants

3. Offshore Engineering & Operations

FPS I

Session Chair:

Sandeep Khurana, Paragon Engineering Services

Integrated Structural Repair of a Producing FPSO

Paul Johnson, Marathon Oil Company

Hybrid Mission for Deep Water Development

J. Schippers, HeereMac v.o.f.

BARBOX: An Alternative System Concept for Floating Production, Storage, and Offloading

Rong-Tai Ho, Brown & Root Energy Services

Behavior of Soil Anchors Under Dynamic Loads

Michael Picornell, University of Texas, El Paso

1:30 - 2:45PM

1. Drilling Technology

Testing - Field and Laboratory

Session Chair:

Roy Long, U.S. Department of Energy

Amoco's Drilling Technology Testing Facility

Ron Bray, Amoco E&P Technology Group

Development and Verification of a Dynamic Underbalanced Drilling Simulator

Zhihua Wang, RF - Roga and Research

Downhole Tool Full-Scale Fatigue Test:

Experience and Practice Recommendations

A. Baryshnikov, AGIP S.p.A.

Development of a Cutter Wear Test Facility (CWTF) for Characterizing PDC Bit Wear in Hard Rock Formations

David Glowka, Sandia National Labs

DRILLING & PRODUCTION OPERATIONS

PROGRAM OUTLINE								
TUESDAY, JANUARY 28			WEDNESDAY, JANUARY 29			THURSDAY, JANUARY 30		
10:45 - 12:00PM	1:30 - 2:45PM	3:15 - 4:30PM	8:45 - 10:00AM	10:45 - 12:00PM	1:30 - 2:45PM	3:15 - 4:30PM	8:45 - 10:00AM	10:45 - 12:00PM
DRILLING & PRODUCTION OPERATIONS								
1. DRILLING TECHNOLOGY								
Underbalanced Drilling	Testing - Field and Laboratory	Drilling Systems and Dynamics	Advances in Drill Bits I	Advances in Drill Bits II	Coiled Tubing, Tubulars	Advances in Drilling Fluids	Novel/Scientific Drilling	Outdrillings
2. PETROLEUM PRODUCTION TECHNOLOGY								
Environmental Health & Safety Issues	Production Technology for Deepwater	Production Technology: What is the future?	Disposal Methods for Production Waste	Deepwater Flowlines	Subsea Production Technology	Mooring Technology	No Session	Visit Exhibit Hall
3. OFFSHORE ENGINEERING & OPERATIONS								
FPS I	FPS II	Deepwater Insulated Flowlines & Flow Assurance	Strategic Service Alliance	Offshore Facility Abandonment	Offshore Development Economics	Heavy Construction, Transportation, and Installation for Offshore Fields	No Session	Subsea Technology

2. Petroleum Production Technology

Production Technology for Deepwater

Session Chair:

Joe Wilson, Baker Inteq.

Innovative Subsurface Production & Processing Concepts for Deepwater Development

Michael Johnson, Baker Hughes INTEQ

Subsea Deployment & Installation of Flexible Pipe Catenaries for GB 388 Freestanding Prod. Riser

Richard Herman, Cooper-Cameron Corporation

3. Offshore Engineering & Operations

FPS II

Session Chair:

Sam Wang, Mustang Engineering

Advanced Synthetic Foam for Deepwater Risers

Lou Watkins, Cuming Corp.

Heat Balance Design and System Modifications for an FSO Vessel Conversion

Bill Chen, Consulting Naval Architect

The Articulated Stable Ocean Platform

Victor Grinius, Offshore Model Basin

Application of Concrete in Marine Structures

Amir Rashid, Petro-Marine

3:15 - 4:30PM

1. Drilling Technology

Drilling Systems and Dynamics

Session Chair:

Bill Eustes, Colorado School of Mines

Advanced Trajectory Simulation of Directional Wellbores

Ing. Gerald Heisig, Tech. Univ. Braunschweig

Chaotic and Random Whirling Motion of Drillstrings

S. Kotsonis, Adadrill Schlumb.

New Isolation Tool for Controlling BHA Vibrations

B. Turner, APS Technology

Combined Simulation of Whirl and Slip/Stick Phenomena

Using a Nonlinear Finite Element Mode

B. Schmalhorst, Baker Hughes INTEQ

2. Petroleum Production Technology

Production Technology, What is the Future?

Session Chair:

Jack Mercier, Offshore Innovations

Process Facilities

Norb Roobaert, Alliance Engineering

Pipelines & Flowlines

Dave McKeenham, Inteq

Structural Support Systems

Jack Mercier, Offshore Innovations

3. Offshore Engineering & Operations

Deepwater Insulated Flowlines & Flow Assurance

Session Chair:

Dennis Cai, Texaco

Experiences with Insulated Bundled Flowlines in Service at Two Deep Water Gulf of Mexico Fields

Robert Pickard, Enserch Exploration, Inc.

Flowline Optimization Via Multiphase Hydraulic Analysis

Ronald Tucker, INTEC Engineering

Methods to Clear Blocked Flowlines:

Problems & Possible Solutions

Janardhan Davalath, Mentor Subsea

WEDNESDAY, JANUARY 29, 1997

8:45 - 10:00PM

1. Drilling Technology

Advances in Drill Bits I

Session Chair:

Bobby Grimes, Hughes Christensen Co.

Triaxial Force Measurements on Single PDC Cutters During Linear Rock Cutting

Jack Wise, Sandia National Laboratories

The Development of Small Diameter Bit Technology and Its Impact on Slimhole Drilling Programs

David Schnell, Hughes Christensen Co.

Recommended New I.A.D.C. Drill Bits Classification System

Iskander Hanna, Saudi Aramco

Wear and Performance: An Experimental Study of PDC Bit Cutting Mechanisms

Olmedo Villa, Sedco-Forre

2. Petroleum Production Technology

Disposal Methods for Production Waste

Session Chair:

Charles Price, Mobil Exploration & Production U.S. Inc.

Drilling Waste Minimization

Al Robb, Mobil Shared Services

Remote Sensing Techniques for Identifying Waste

Max Khan, Emcon

Recycling of Oilfield Waste

Pat Rozypal, Pan American Services, Inc.

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Mike Jackson
Engicon International Inc.

Curt Gibby
GCG Consultants

Johnny Reed
HeereMac Offshore Services

Bobby Grimes
Hughes Christensen Co.

John "Red" King
John Brown Engineers & Constructors, Inc.

John Cohen
Maurer Engineering, Inc.

George Mediny
Maurer Engineering, Inc.

Charles Price
Mobil Exploration & Production U.S. Inc.

Sam Wang
Mustang Engineering

Jack Mercier
Offshore Innovations

John Rowley
Pajarito Enterprises

Sandeep Khurana
Paragon Engineering Services, Inc.

Dirk Stiggins
Phillips Petroleum

Roderic Stanley
Quality Tubing, Inc.

Paul Dodd
S&S Technologies

Carl Langner
Shell Technology

Terry Lechinger
Stress Engineering Services, Inc.

Donnis Cai
Tozaco

J.J. Azar
University of Tulsa

Roy Long
U.S. Department of Energy



[HTTP://PENNWELL.COM/ENERGYWEEK.HTML](http://pennwell.com/energyweek.html)

3. Offshore Engineering & Operations Strategic Service Alliance

Session Chair:
Dirk Stiggins, Phillips

Why Did It Take So Long for Us to Learn How to Work Together?
Phil Wilbourn, Texaco

Alliances: Quantifying the Need
Derek Disney, Kvaerner John Brown
R.T. Liddell, Phillips Petroleum

10:45 - 12:00PM

1. Drilling Technology Advances in Drill Bits II

Session Chair:
Bobby Grimes, Hughes Christensen Co.

In-situ Confined Compressive Strength Analysis as an Aid in Bit Selection and Performance Drilling
Robert Fabian, HYCLOG

A Global Methodology for the Design of PDC Bits for Slimhole Applications
Elinne Lamine, R&D Security DBS (Brussels)

Imbalance Force Control for PDC Bit Design: Algorithm and Applications
Shilin Chen, R&D Security DBS (Brussels)

Preliminary Experiments on a Self-Sharpening Bit
L. Restorick, University of California, Berkeley

2. Petroleum Production Technology Deepwater Flowlines

Session Chair:
Carl Langner, Shell Technology

Frans Kopp, Mars Flowline Installation

Tom Williams, Mensa Flowlines

Requirements for Laying Pipe in Pipe Flowlines
Bart Heijmans, Deepcat Riser Inst.

3. Offshore Engineering & Operations Offshore Facility Abandonment

Session Chair:
Mike Jackson, Engicon

Decommissioning: Review of 1995-1997 and Global Opportunities
Win Thornton, Twachtman, Snyder & Thornton

Platform Removal - Recent Experiences in the North Sea
Maarten Ripping, HeereMac v.o.f.

Federal Regulations and Policies on Structural, Pipeline and Well Abandonment Operations in OCS Federal Waters, Gulf of Mexico
Connie Goers, J. Connor Consulting

1:30 - 2:45PM

1. Drilling Technology Coiled Tubing, Tubulars

Session Chair:
Roderic Stanley, Quality Tubing, Inc.

Failures in Coiled Tubing
Roderic Stanley, Quality Tubing, Inc.

Coiled Tubing Drilling Goes Commercial - Cost Effective Reservoir
R. Graham, Dowell Schlumberger

Correlating Low-Cycle and Full-Scale Coiled Tubing Fatigue Data
Steven Tipton, The University of Tulsa

"Collapse Prediction of 1.5" Ovalled Tubing Based on Numerical Modeling
Robert Soren, University of Kansas

DRILLING & PRODUCTION OPERATIONS

2. Petroleum Production Technology Subsea Production Technology

Session Chair:
Paul Dodd, S&S Technologies

Insulated Tubing
David Porter, British Petroleum Exploration

Subsea Subsurface Safety Valves
Terry McIntert, Oceaneering

Performance Electronic Set Packers
Mark Hopman, Baker-Hughes

3. Offshore Engineering & Operations Offshore Development Economics

Session Chair:
Jim Gamel, Brown & Root

Deepwater Gulf of Mexico Economics
Michael Craig, UNOCAL

Offshore Oil and Gas Development Costs: Four Decades of Technical Change
John Lohrenz, Louisiana Tech University

Strategic Issues in Pursuing Mature Fields -vs- Frontier Developments
Dawn Hawkins & Jim O'Sullivan, Brown & Root, Inc.

3:15 - 4:30PM

1. Drilling Technology Advances in Drilling Fluids

Session Chair:
John Cohen, Maurer Engineering, Inc.

Effects of Temperature and Pressure on Hydraulics of Oil-Base Mud
Haiwang Sun, Maurer Engineering, Inc.

Annular Flow Optimization: A New Integrated Approach
Roberto Maglione, AGIP

Effects of Rheology and Hydraulics of Drilling Fluid on the Transportation of Drill Cuttings in Horizontal Drilling
Sze-Foo Chien, Furcula Company

Effects of Shale-Drilling Mud Interactions on Geotechnical Properties
M. Amanullah, University of Texas

2. Petroleum Production Technology Mooring Technology

Session Chair:
Curt Gibby, GCG Consultants

Mooring of Semi-Sub. Platforms in D.W. & Spread Mooring of FPSO's in Deep & Shallow Water
Bill Steward, Stewart Technology Associates

Turret Mooring of Production Vessels
Rick Hall, Sofec, Inc.

Installation of Deepwater Moorings
Dave Sorrel, Aker Marine, Inc.

3. Offshore Engineering & Operations Heavy Construction, Transportation, and Installation for Offshore Fields

Session Chair:
Johnny Reed, HeereMac, v.o.f.

Innovative Transportation Methods for Deep Water Oil & Gas Development Structures
Robb Erickson, Dockwise, U.S.A., Inc.

Extending the Range of Lifiable Jackets
J. van der Graaf, HeereMac v.o.f.

THURSDAY, JANUARY 30, 1997
8:45 - 10:00AM

1. Drilling Technology Novel/Scientific Drilling

Session Chair:
John Rowley, Pajarito Enterprises

Development of a Micro Drilling System
John Cohen, Maurer Engineering

Hydraulic Hammers Drilling Technology: Development and Proficient
Yuri Melamed, SKB Geotechnika

Cryo-Drilling Used to Drill in Unconsolidated Sediments Containing Loose Boulders
P. Cavagnaro, University of California, Berkeley

Effect of Electrode Configuration on Drilling Performance and Hole Stability When Using Electroerosion to Prevent Bit Balling
George Cooper, University of California, Berkeley

10:45 - 12:00PM

1. Drilling Technology Drillstrings

Session Chair:
Steve Williamson, Bowen Tools

Drilling Forces in High Curvature Wellbores: A Comparison of Analytical Model Results with MWD Data
David Rocheleau, University of South Carolina

Development and Field Verification of a Predictive Model for Tension, Torque, and State of Stress in Drill and Casing Strings
Mark Dykstra, Hughes Christensen Co.

Using Electronic Chips to Individually Identify and Control the Load History of the Elements of the Drill String
J. Cunha, Petrobras S.A.

3. Offshore Engineering & Operations Subsea Technology

Session Chair:
Ernesto Valenzuela, Aker Omega

The Non-Oriented, Multibore Flowline Connection System
Gary Galle, ABB Vetco Gray

Drill String Vibration, a Study on How to Identify and Suppress
J. Cunha, Petrobras S.A.

ABB Vetco Gray Diverless Remote Operated Flowline Connector
Gary Galle, ABB Vetco Gray

STEP BACK IN TIME

with the Exhibit Sponsored Museum Displays Located Throughout the Exhibit Hall at ENERGY WEEK '97

See Page 22 for more information

Symposium Chairs



Decision, Perception, Media, Regulation
Karl Leger, President, Compliance Solutions, Inc.
 This symposium seeks to examine the process of risk management and the factors and skills that are critical determinants for the successful management of business risk. Join us as industry leaders share their experiences and insight in: identifying the appropriate risk management objective and creating a visionary plan to achieve it; selecting the most effective risk management process; understanding and managing the human factors in process-based vs. rule-based decisions; and exploring the evolving role of consultants in the risk management process. The distinguished speakers in this symposium are widely recognized experts in their fields and will share their perspectives and experiences in lectures, panel discussions and mini workshops. Participants will have a deeper appreciation of the ins-and-outs of risk management in the real world and will learn practical techniques to make the process simpler and more effective.



Risk and Insurance Management for the Non-Insurance Executive
Mike MacCrory, Vice President, Johnson & Higgins
 This symposium is designed for financial and operational executives wanting a better understanding of Risk Management and its application. Key property and casualty coverage's will be reviewed. Individuals looking for a refresher course will benefit as well.



Allen M. Gelwick, Sr. Vice President, Alexander & Alexander
 This Symposium will provide updates, overviews, and perspectives of some of the tools being used by risk managers to not only manage their company's risks, but improve the company's profitability through increased efficiency. The panelists participating include local, national and global orientations and are each respected leaders in their area of specialization.

Finance and Accounting
Tam Markley, Vice President, Controller, Calcasieu Refining (Not Pictured)
 Finance and accounting are the measurement tools by which entities are judged. This symposium will introduce and explore key financial issues and their impact on business risk management. Leading business executives will explore what type of investing is being done today, how does one interpret financials, understanding the dynamics of insurance market capacity and why aren't insurance financial products meeting the needs of the industry. The panelists in this symposium offer the attendee a unique opportunity to share their insights and into these important topics and attendees will develop an improved understanding of the critical role of finance and accounting in the management of business risk.

Legal
Don Abaunza, President of the Board, Liskow & Lewis (Not Pictured)
Gene Fendler, Attorney at Law, Liskow & Lewis (Not Pictured)

This symposium will focus on the legal issues in risk management. A panel of experienced practitioners will review important principles of contractual indemnity and insurance, and provide practical tips on drafting contract to maximize risk protection. Leading industry experts will address the management of catastrophic risk from the legal point of view. The hands-on reality of a mock deposition will provide insight into this phase of the litigation process. The symposium concludes with a discussion of emerging issues in employment law, including suggested policies and practices for avoiding employment-related litigation. Attendees will benefit from the diverse legal and professional experience of symposium speakers and panelist as current and emerging legal issues are presented and discussed.

BUSINESS RISK MANAGEMENT
Sponsored By:



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BUSINESS RISK MANAGEMENT

TUESDAY, JANUARY 28, 1997
10:45-12:00PM

Session Co-Chairs:

Karl Leger, President, Compliance Solutions, Inc.
Michael Vogler, Principal National Director, Coopers & Lybrand L.L.P.

WHAT IS BUSINESS RISK MANAGEMENT?

The management of risk is the single most critical element in the executive decision making process. In order to prosper, and at times survive, business leaders must have a comprehensive and practical knowledge of the risks associated with the management of their organization. This session will explore critical business risk management issues as defined by industry executives. Each of the panelists provides a significant understanding of the functional elements of business risk. The panelists will address the decision making process as effected by regulatory influences, finance and accounting, media and public involvement and the legal matrix which each of the pieces must fit. Attendees in this session will have the unique opportunity to share in the insights of the executive panelists as they debate what is business risk management.

Julie Edwards, Senior Vice President - Finance & Chief Financial Officer, Wainoco Oil Corporation

Nick Carter, President, Southampton Refining Company

Don Abaunza, Attorney at Law, Liskow and Lewis

Lindene Patton, JD, CIH, Group Risk Management Executive, Zurich American Insurance

1:30-4:30PM

1. Decision, Perception, Media, Regulation

Visionary Planning & Decision Making
(3 hrs. C.E.)

Session Chair:

Steve McHugh, Principal, Idea Champions
Richard Price, Senior Consultant, Coopers & Lybrand L.L.P.
Karl Leger, President, Compliance Solutions, Inc.
Steve McHugh, Principal, Idea Champions

2. Risk and Insurance Management for the Non-Insurance Executive

Risk and Insurance Management Overview for Non-Insurance Executives (3 hrs. C.E.)

Session Co-Chairs:

Charles K. Gore, Star Enterprise and
Craig Crocker, Risk Manager, National Oil Well

Charles K. Gore, Star Enterprise

Craig Crocker, Risk Manager, National Oil Well

3. Topical Issues

Implications of Retentions - What are SIR's, DED's, Retro's?
(3 hrs. C.E.)

Session Chair:

Debra Moreno, Senior Underwriting Specialist, Briarpark Specialty Risks, Inc.

Ross Dowler, Manager, Treasury and Risk Management, American Ref-Fuel Company

Denise Schneyer, CPCU Product Manager-National Markets, Liberty Mutual Insurance Company

Oren Gephart, Vice President, AON Natural Resources Worldwide
and George Benis, Principal, Risk Management Concepts

BUSINESS RISK MANAGEMENT

PROGRAM OUTLINE									
TUESDAY, JANUARY 28			WEDNESDAY, JANUARY 29				THURSDAY, JANUARY 30		
10:45 - 12:00PM	1:30 - 2:45PM	3:15 - 4:30PM	8:45 - 10:00AM	10:45 - 12:00PM	1:30 - 2:45PM	3:15 - 4:30PM	8:45 - 10:00AM	10:45 - 12:00PM	
BUSINESS RISK MANAGEMENT									
WHAT IS BUSINESS RISK MANAGEMENT	1. DECISION, PERCEPTION, MEDIA, REGULATION								
	Visionary Planning & Decision Making (3 hrs. C.E.)	Risk Based Planning (3 hrs. C.E.)	Human Factors-Programming for Success (3 hrs. C.E.)	Risk Consulting (3 hrs. C.E.)					
	2. RISK AND INSURANCE MANAGEMENT FOR THE NON-INSURANCE EXECUTIVE								
	Risk and Insurance Management Overview for Non-Insurance Executives (3 hrs. C.E.)	Casualty Coverage's (3 hrs. C.E.)	Property Coverage's (3 hrs. C.E.)	Environmental Coverage's, Market, Structured Settlement (3 hrs. C.E.)					
	3. TOPICAL ISSUES								
	Implications of Retentions, What are SIR's, DED's, Retro's? (3 hrs. C.E.)	Put Your Best Risk Forward (3 hrs. C.E.)	Panel Discussion: Open Forum (C.F.O. & R.M.) (1 hr. C.E.)	Integrated Benefits: a High Stake Race for the Gold (3 hrs. C.E.)	Panel Discussion: Pre-Employment Practices (ADA, EEOC, Consumer Protection) (3 hrs. C.E.)				
	4. FINANCE & ACCOUNTING								
	Investing in Energy (3 hrs. C.E.)	What Financials Don't Tell You (3 hrs. C.E.)	What is Marketing Capacity? (3 hrs. C.E.)	Why Insurance Financial Products Don't Sell Well (3 hrs. C.E.)					
	5. LEGAL								
	Emerging Issues in Employment Law (3 hrs. C.E.)	Legal Management Part I (3 hrs. C.E.)	Legal Management Part II (3 hrs. C.E.)	Emerging Issues (3 hrs. C.E.)					

4. Finance & Accounting

Investing in Energy (3 hrs. C.E.)

Session Co-Chairs:

David Wilson, Principal, Energy Industry Chairman, Coopers & Lybrand L.L.P. and Jan Warren Duggar, Professor of Finance, The University of Southwestern Louisiana

5. Legal

Emerging Issues in Employment Law (3 hrs. C.E.)

Session Chair:

Horace A. Thompson, III, Attorney at Law, McCalla, Thompson, Pyburn, Hymowitz & Schapiro
Keith A. Pyburn, Jr., Attorney at Law, McCalla, Thompson, Pyburn, Hymowitz & Schapiro
Horace A. Thompson, III, Attorney at Law, McCalla, Thompson, Pyburn, Hymowitz, & Schapiro

WEDNESDAY, JANUARY 29, 1997
8:45-12:00PM

1. Decision, Perception, Media, Regulation

Risk Based Planning (3 hrs. C.E.)

Session Co-Chairs:

Charles E. Fryman, Risk Manager - HSE, B.P. Oil
Richard Spell, Consultant, International Paper
Charles E. Fryman, Risk Manager, Health, Safety, and Environment, B.P. Oil
Stanley E. Anderson, Risk Analysis Manager, Rohm and Haas Texas Incorporated
Alan Freund, Director, Supply & Distribution Corporate Controller, Global Octanes
Michael E. Sawyer, President, Apex Safety Engineers, Inc.

2. Risk and Insurance Management for the Non-Insurance

Casualty Coverages
(3 hrs. C.E.)

Session Co-Chairs:

James F. Hughes, Vice President, Global Special Risks
Ronald A. Gleason, Divisional Vice President, AIG Risk Management, Inc.
James F. Hughes, Vice President, Global Special Risks
Ronald A. Gleason, Divisional Vice President, AIG Risk Management, Inc.

3. Topical Issues

Put Your Best Risk Forward (3 hrs. C.E.)

Session Chair:

Michael Phillipus, Casualty Risk Manager, Pennzoil
Joseph F. Braunstein, Jr., CIGNA Risk Solutions
James R. Brooks, President, BCC Underwriters, Inc.
Bill Farnan, Vice President, Alexander Howden Energy
William F. Hasltreiter, Coastal Corporation

4. Finance & Accounting

What Financials Don't Tell You (3 hrs. C.E.)

Session Chair:

Tam Markley, Vice President, Controller, Calcasieu Refining Company
Robert Gilbert, Controller, ELF Trading
Steve Donley, Conoco, Inc.
Keith Cox, Vice President, Credit Agricole

5. Legal

Legal Management
Part I: General Principles and Contract Drafting - Catastrophic Losses (3 hrs. C.E.)

Session Co-Chairs:

S. Gene Fendler, Attorney at Law, Liskow & Lewis
David W. Leefe, Attorney at Law, Liskow & Lewis
William W. Pugh, Attorney at Law, Liskow & Lewis
David W. Leefe, Attorney at Law, Liskow & Lewis
S. Gene Fendler, Liskow & Lewis

12:30-1:30PM

3. Topical Issues

Brown Bag Lunch/Panel Discussion: Open Forum CFO & R.M. (1 hr. C.E.)

Session Chair:

Michael Phillipus, Casualty Risk Manager, Pennzoil
Patti Carroll, TOTAL America, Inc.
Michael P. Schieffler, Pennzoil Company

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Hal Broussard
Attorney at Law
Broussard & Daigle

Tam Markley
Vice President, Controller
Calcasieu Refining Company

Karl Leger
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Steve McHugh
Principal
Idea Champions

Richard Spell
Consultant
International Paper

Mike MacCrory
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Johnson & Higgins

Robert D. Stauffer
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President of the Board
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Attorney at Law
Liskow & Lewis

David W. Leete
Attorney at Law
Liskow & Lewis

Norace A. Thompson, III
Attorney at Law
McCalla, Thompson, Pyburn,
Hymowitz & Schapiro

Stan Ackerman
Marsh & McLennan

Craig Crocker
Risk Manager
National Oil Well

Michael Phillipus
Casualty Risk Manager
Pennzoli

Robert J. Graham
Director of Risk Management
Smith International, Inc.

Charles K. Bore
Star Enterprise

Gerry Fahrenthald
Senior Underwriting Specialist
Zurich American Insurance Group

Kim Weber
Zurich American Insurance Group

1:30-4:30PM

1. Decision, Perception, Media, Regulation

Human Factors - Programming for Success (3 hrs. C.E.)

Session Chair:

Dr. Ben Thomas, Vice President, Compliance Solutions, Inc.

Edith Rodas-Carroll, President, Rodas-Haskell Associates
Bobby Jones, President, Bobby Jones and Associates

2. Risk and Insurance Management for the Non-Insurance Executive

Property Coverages (3 hrs. C.E.)

Session Co-Chairs:

Stan Ackerman, Marsh & McLennan
Gerry Fahrenthald, Senior Underwriting Specialist,
Zurich American Insurance Group

Stan Ackerman, Marsh & McLennan
Gerry Fahrenthald, Branch Energy Property Manager,
Zurich American Insurance Group

3. Topical Issues

Integrated Benefits; a High Stakes Race for the Gold (3 hrs. C.E.)

Session Chair:

Robert J. Graham, Director of Risk Management,
Smith International, Inc.

John Potter, Senior Vice President - Manager Managed Care,
Liberty Mutual
Catherine L. Cather, National Practice Lender-Integrated Benefits,
Alexander & Alexander
Dr. Thomas Parry, President of the Integrated Benefits Institute

4. Finance & Accounting

What is Marketing Capacity? (3 hrs. C.E.)

Session Chair:

Robert D. Stauffer, Vice President, Johnson & Higgins

David Whiting, Director, Zurich American Insurance Group
Tom Kaiser, President, AIU Energy Division,
American International Group
John Cizza, Vice President and Regional Manager,
Arm Re Managers, Inc.
Ken Holley, Manager, Risk Management, Burlington Resources

5. Legal

Legal Management

Part II: Catastrophic Losses (cont.) - Deposition 101/A Practical Guide of the Deposition Process (3 hrs C.E.)

Session Chair:

S. Gene Fendler, Attorney at Law, Liskow & Lewis

Harold K. Watson, Liddell, Sapp, Zivley, Hill & LaBoon
Karl J. Leger, President, Compliance Solutions, Inc.
S. Gene Fendler, Attorney at Law, Liskow & Lewis

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THURSDAY, JANUARY 30, 1997

8:45-12:00PM

1. Decision, Perception, Media, Regulation

Risk Consulting (3 hrs. C.E.)

Session Co-Chairs:

Michael Pankonien, Vice President, Industrial Hygiene & Environmental
Services Risk Control, Alexander & Alexander of Texas, Inc.
Richard Spell, Consultant, International Paper
Brian Dove, Vice President, AON
Kenneth S. Zignorski, Senior Vice President, Johnson and Higgins
David Dykes, Safety Coordinator, Taylor Energy
Steve Boydston, Assistant Vice President,
Alexander and Alexander of Texas, Inc.

2. Risk and Insurance Management for the Non-Insurance Executive

Environmental Coverages, Market, Structured Settlement (3 hrs. C.E.)

Session Chair:

Kim Webber, Zurich American Insurance Group

David Dibdall, Willis Corroon Group
Kent Holland, Esq., Zurich American Insurance Group

3. Topical Issues

Panel Discussion: Pre - Employment Practices (ADA, EEOC, Consumer Protection) (3 hrs. C.E.)

Session Chair:

Brent Winans, CPCU, ARM National Accounts Manager, Avert, Inc.
Floyd Scott, Human Resources Director, U.S. Contractors, Inc.
Brent Winans, CPCU, ARM National Accounts Manager, Avert, Inc.

4. Finance & Accounting

Why Insurance Financial Products Don't Sell Well (3 hrs. C.E.)

Session Chair:

Tam Markley, Vice President, Controller, Calcasieu Refining, Co.

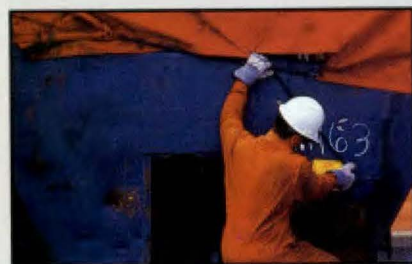
Steve Hamlin, Treasurer, Tauber Oil
Chris Triggs, Senior Vice President, Sedgwick James of Arkansas, Inc.
Steve Fodo, Treasurer, West Lake Petrochemical Co.

5. Legal

Emerging Issues (3 hrs. C.E.)

Session Chairs:

Hal Broussard, Attorney at Law, Broussard & Daigle
Susan A. Daigle, Attorney at Law, Broussard & Daigle
Texas Oilfield Anti-Indemnity Act
Ken E. Kendrick, Kelly, Sutter, Mount, & Kendrick
Louisiana Oilfield Anti-Indemnity Act
Hal Broussard, Attorney at Law, Hal Broussard



ENERGY WEEK

MUSEUM

STEP BACK IN TIME

Ever wonder how the many technological advancements in the energy industry got their start?

Well, wonder no more. This year's ENERGY WEEK Exhibition will do more than feature innovative equipment and services. It will also showcase special exhibits donated by individual operating service companies which trace the history the oil, gas and petrochemical industries. Sponsored by *OIL & GAS JOURNAL*, each historical display will feature photos and actual artifacts from the early days of the petroleum industry. Both upstream and downstream facets of the industry will featured by the museum. Timelines tracing participating companies' early contributions to the present will also be on display. *OIL & GAS JOURNAL* would like to salute those companies participating in the museum as well as the advancements they have made in this expanding industry.

Companies interested in exhibiting in this special museum are encouraged to call Jeff Evans at 1.713.963.6221; e-mail: jeffe@pennwell.com

PROGRAM OUTLINE									
TUESDAY, JANUARY 28			WEDNESDAY, JANUARY 29				THURSDAY, JANUARY 30		
10:45 - 12:00PM	1:30 - 2:45PM	3:15 - 4:30PM	8:45 - 10:00AM	10:45 - 12:00PM	1:30 - 2:45PM	3:15 - 4:30PM	8:45 - 10:00AM	10:45 - 12:00PM	
BUSINESS ISSUES & TRENDS									
INDUSTRY VISION I Business Perspective	INDUSTRY VISION II Regulatory Perspective	INDUSTRY VISION III Company Perspective	ENHANCING SHAREHOLDER VALUE Economic Value Management	ENHANCING SHAREHOLDER VALUE Business Process Solutions	ENHANCING SHAREHOLDER VALUE Strategic Management	ENHANCING SHAREHOLDER VALUE Business Performance Improvement	TRANSFORMATION IT Strategic Issues I	TRANSFORMATION IT Strategic Issues II	

BUSINESS ISSUES AND TRENDS

Symposium Chair:

Ted Senko, KPMG

Ever since its inception with the "Spindletop Gusher" at the turn of this century, the petroleum industry has had to react to constantly changing business issues and trends. In recent years, the pace of those changes has accelerated, making it more and more difficult for industry leaders to keep pace with developments and to take advantage of time sensitive opportunities. This conference will focus on many of the challenges and opportunities facing today's petroleum industry. Industry leaders will speak on such topics as industry vision, enhancing shareholder value and information technology transformation.

TUESDAY, JANUARY 28, 1997

10:45 - 12:00PM

Industry Vision I

Panel Discussion: Business Perspective

Macro-analysis of industry issues and trends by a panel of energy consultants

Session Chair:

Kevin Hughes, KPMG

Panelists:

*Sam Barakat, Barakat & Chamberlin, Inc.
Lawrence Goldstein, President, Petroleum Industry Research Foundation
Representative from Investment Banking Firm*

1:30 - 2:45PM

Industry Vision II

Regulatory Perspective

Update of regulatory issues impacting the energy industry

Representative from Energy Information Administration, Department of Energy

3:15 - 4:30PM

Industry Vision III

Panel Discussion: Company Perspective

Comprehensive discussion of key issues impacting all segments of the energy industry

Panelists:

**Robert F. Vagt, President and Chief Operating Officer, Seagull Energy Corporation
Karen Johnson, President, Entergy Texas
Representative from FINA, Inc.*

WEDNESDAY, JANUARY 29, 1997

8:45 - 10:00AM

Enhancing Shareholder Value

Economic Value Management

Practical discussion on how Economic Value Management can impact your business

Session Chair:

Kevin Hughes, KPMG

Keith Haas, Economic Value Management Practice, KPMG

10:45 - 12:00PM

Enhancing Shareholder Value

Business Process Solutions

Comprehensive discussion on outsourcing and business process management as a key driver of financial results

Richard Dole, National Partner in Charge, KPMG Business Process Solutions

1:30 - 2:45PM

Enhancing Shareholder Value

Strategic Management

In-depth discussion on implementation effective strategic management strategies

John Chu, National Risk Strategy Practice, KPMG

Steve Cross, Principal, Performance & Compensation Management, KPMG

Grace Weaver, Director, National Environmental Management Systems Practice, KPMG

3:15 - 4:30PM

Enhancing Shareholder Value

Business Performance Improvement

Comprehensive discussion on improving your company's performance

Putting It Together: Purchasing, Reengineering and EDI

Roger Trout, Mobil and Peggy Trout, James Martin Consulting

Bill Kimble, Partner, State and Local Tax, KPMG

Patrick Slattery, Partner, World Class Finance, KPMG

THURSDAY, JANUARY 30, 1997

8:45 - 10:00AM

Transformation

IT Strategic Issues I

Session Chair:

Mike Drews, American Petroleum Institute

How to Survive the Information Revolution

Raymond Cline, American Petroleum Institute

The Uncommon, Common Material Identifier - CIMIS

Mike Drews, American Petroleum Institute

10:45 - 12:00PM

Transformation

IT Strategic Issues I

Panel Discussion: "SAP" - The Petroleum Experience

Panelists:

Susan Colles, Dowell Schlumberger

Tom Seymour, Mobil

Rick Wilcox, Partner, Strategic Services, KPMG

**Invited*

BUSINESS RISK & TRENDS

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SUBSALT '97



SUBSALT TECHNOLOGY '97 Conference & Exhibition

held in conjunction with

ENERGY WEEK '97 Conference & Exhibition

January 28-30, 1997

George R. Brown Convention Center, Houston, Texas

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- ✓ Innovative Methods
- ✓ Imaginative Projects
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- Geologists & Geophysicists

EXHIBITING OPPORTUNITIES

As an exhibitor, you will join the world's leading suppliers of equipment and services who are driving subsalt exploration, development, and production worldwide. If your company or organization supplies equipment and/or services to the offshore oil and gas industry, the SUBSALT TECHNOLOGY '97 Conference & Exhibition is by far the most important and potentially the most profitable event you may exhibit at all year. Exhibit Space is Limited!

To reserve your prime location:

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Fax: 1.713.963.6284

e-mail: glenb@pennwell.com

CONFERENCE PROGRAM

OFFSHORE MAGAZINE and the SUBSALT '97 Conference Program promise to give delegates insight into dynamic revolution in subsalt technology. Conference sessions will focus on the multitude of challenges and opportunities presented by this dynamic technological development in the oil and gas industry. Carefully compiled by a panel of industry experts, the conference will provide a forum for the exchange of ideas and experiences. There are four tracks designed to offer delegates current, unbiased information on the most important developments in subsalt exploration and development technology. Prospective authors who wish to have papers considered for presentation should submit a 300-400 word abstract on the following topics: Subsalt Exploration; Drilling & Production; Deepwater Subsalt; and Geosciences.

Deadline for Abstracts is November 30, 1996

Please submit your abstract for review to:

SUBSALT TECHNOLOGY '97
3050 Post Oak Blvd., Suite 205
Houston, TX 77056 USA
Tel: 1.713.621.8833
Fax: 1.713.963.6284
E-mail: michelle@pennwell.com

TURN TO PAGE 46 AND REGISTER TODAY FOR SUBSALT '97

Presented By: **Offshore**

Salt wing model created by Western Geophysical's "Trend" modeling system, actual 3D business model of Malaysia project, courtesy Western Geophysical

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Symposium Chairs



Heat Transfer

Dr. Yildiz Bayazitoglu, Rice University

The invited presentations focus on heat transfer in porous medium. The panel discussion will cover unsolved heat transfer problems in the oil, gas and petroleum industries.



Plant Engineering, Operations, Design & Reliability

Steve Taylor, Marathon Oil

Reduction of operating cost and increased operation efficiency are two key goals for the petrochemical industry to remain competitive in today's market. To accomplish these goals, a better job of finding long term solutions to extending the life of operating equipment must be made. This symposium will present subjects and speakers that will offer insight to these solutions.



Structural Dynamics And Vibration

Dr. B.A. Ovunc,

University of Southwestern Louisiana

This symposium provides information on advanced analytical and experimental research in dynamics and vibrations. The focus will be on: application of neural network, response simulation, defect evaluation, stochastic analysis, vibration in human body, white noise, material and geometrical nonlinearities, buckling.



Composite Materials Design & Analysis

Dr. Karan S. Surana, University of Kansas

The symposium provides a forum for selection analysis, design, synthesis, characterization, numerical simulations, micro- and macromechanics, manufacture, attachments, practicability and utilization of materials in machines, equipment, exploration, extraction, transportation and conversion of energy sources, as well as computation methods, numerical simulation techniques, analysis and design. This year's symposium has sessions specifically devoted to Manufacturing and Design of Composite Materials, Experimental and Analytical Methods in Composites, Homogenization and Micromechanics of Composites, Analysis of Composite Materials, Computational Methods & Numerical Simulation, as well as Computational Methods for Singular Problems in Computational Mechanics.



Tribology

Dr. Houshang Masudi,

Prairie View A & M University

Dr. C.F. Kettleborough, Texas A & M University (Not Pictured)

This symposium focuses on the practice and science relating to interacting surfaces in relative motion. It consists of eight technical sessions covering current research and development activities in design and manufacturing of tribological components. A special feature at this symposium is tribo-numerics.

PLANT ENGINEERING, OPERATIONS, DESIGN & RELIABILITY

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RELIABILITY TECHNOLOGIES

ENERGY ENGINEERING

TUESDAY, JANUARY 28, 1997
10:45 - 12:00PM

1. Heat Transfer

Heat Transfer in Porous Medium

Session Chair:

Dr. Yildiz Bayazitoglu, Rice University

Natural Convection Below Downward Facing Heated Horizontal Surface in a Saturated Porous Medium

Dr. D. Angirasa and Dr. G.P. Peterson, Texas A & M University

Time-Dependent Penetrative Mixed Convection in Porous Layers

Dr. S. Tendoubi and Dr. F.A. Kulacki, University of Minnesota

Natural Convection Above a Heated Horizontal Surface in a Saturated Porous Medium

Dr. D. Angirasa and Dr. G.P. Peterson, Texas A & M University

2. Plant Engineering, Operations, Design & Reliability

Project Management

Session Chair:

Steve Taylor, Marathon Oil Company

New Approaches to Project Management: Cost Reduction at the Expense of Good Control System Engineering?

Diana Johnston, Brown & Root, Inc.

Capturing Business Benefits from Refinery Advanced Automation and Operations Management Technology

Dr. Douglas White, Aspen Technology

3. Composite Materials Design & Analysis

Numerical Methods in Composites

Session Co-Chairs:

Dr. T.J. Kozik, Texas A & M University

Dr. R.M. Sorem, University of Kansas

Study of Interlaminar Stresses Using a Layerwise Element with Enhanced Assumed Strains

Dr. Dakshina Moorthy, Dr. John A. Mitchell,

and Dr. J.N. Reddy, Texas A & M University

Analysis of Bonded Composite Repairs to Cracked Compact Specimens

Dr. Y.C. Tsai and Dr. T.Y. Kam, National Chiao Tung University

Effects of Local Asymmetry on the Buckling and Postbuckling of Composite Laminates with a Delamination

Dr. W.X. Wang and Dr. Y. Takao, Kyushu University

p-Version Curved Shell Element for Geometrically Nonlinear Analysis of Laminated Composite Plates and Shells

Dr. Robert M. Sorem and Dr. Karan S. Surana, University of Kansas

4. Structural Dynamics/Vibration/Buckling

Vibration & Buckling I

Session Chair:

Dr. Y.C. Das, McNeese State University

One Dimensional Finite Element

Model for LR55 Truck System

Dr. Hassan Al-Nageim, Liverpool John Moores University

Dynamics of Laterally Loaded Piles in Elastic Medium

Dr. Y. Das, McNeese State University

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ENERGY ENGINEERING

PROGRAM OUTLINE									
TUESDAY, JANUARY 28			WEDNESDAY, JANUARY 29			THURSDAY, JANUARY 30			
10:45 - 12:00PM	1:30 - 2:45PM	3:15 - 4:30PM	8:45 - 10:00AM	10:45 - 12:00PM	1:30 - 2:45PM	3:15 - 4:30PM	8:45 - 10:00AM	10:45 - 12:00PM	
ENERGY ENGINEERING									
1. HEAT TRANSFER									
Heat Transfer in Porous Medium	Panel Discussion: Unsolved Heat Transfer Problems in the Oil, Gas and Petroleum Industries	Panel Discussion (continued)	No Session	No Session	No Session	No Session	No Session	No Session	No Session
2. PLANT ENGINEERING, OPERATIONS, DESIGN & RELIABILITY									
Project Management	Plant Inspection	Visit Exhibit Hall	Fitness for Service I	Fitness for Service II	Equipment Failure Investigation	Visit Exhibit Hall	No Session	No Session	No Session
3. COMPOSITE MATERIALS DESIGN & ANALYSIS									
Numerical Methods in Composites	Materials and Material Properties	Composite Modeling and Applications	Analysis and Measurement of Residual Stresses	Cutting Tool Analysis and Design	Computational and Analytical Methods	Viscoelasticity and Composite Materials	Computational Methods for Singular Problems	Computational Methods in Composites and Singular Problems	
4. STRUCTURAL DYNAMICS/VIBRATION/BUCKLING									
Vibration & Buckling I	Neural Networks	Dynamic Analysis	Vibration & Buckling II	BioEngineering	Dynamic Responses	Modeling	Nonlinearities	Vibration & Buckling III	
5. TRIBOLOGY									
Research & Development	Condition Monitoring & Predictive Maintenance	Manufacturing	Tribology-Physics Tribology-Chemistry	Wear/Corrosion & Design/Design Representation	Hydrodynamics	Tribology-Energy	Tribology-Numerics	No Session	
6. ENVIRONMENTAL ENGINEERING									
No Session	No Session	No Session	Health, Ecological, and Social Impact/Design for the Environment	Pollutant Behavior, Analysis and Remediation Technology	Recycling and Reuse Technology	No Session	No Session	No Session	
7. ENERGY INFORMATION MANAGEMENT									
Information Technology in Environmental Protection	Workgroup Computing	Natural Language	Neural Networks	Software Process Models I	Software Process Models II	Technical Databases & Applied Computing	Software Process Models III	No Session	

TUESDAY, JANUARY 28			WEDNESDAY, JANUARY 29			THURSDAY, JANUARY 30			
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8. EMERGING ENERGY TECHNOLOGY									
Flammability and Explosion I	Flammability and Explosion II	Explosion & Enrichment	Advances in Fuel Cells I	Advances in Fuel Cells II (continued)	Advances in Fuel Cells III	Alternative Fuels I	Alternative Fuels II	Sprays & Combustion I	Sprays & Combustion II
									Energy Conversion & Conversion

TUESDAY, JANUARY 28			WEDNESDAY, JANUARY 29			THURSDAY, JANUARY 30			
10:45 - 12:00PM	1:30 - 2:45PM	3:15 - 4:30PM	8:45 - 10:00AM	10:45 - 12:00PM	1:30 - 2:45PM	3:15 - 4:30PM	8:45 - 10:00AM	10:45 - 12:00PM	
9. NON DESTRUCTIVE EVALUATION									
Mechanical Integrity and Reliability Based Maintenance	An Update on Risk Based Inspection Projects	Managed Plant Maintenance	Material Properties Evaluation	Engineer Industry NDE Applications	Visit Exhibit Hall	Visit Exhibit Hall	Visit Exhibit Hall	Visit Exhibit Hall	

5. Tribology

Research & Development

Session Co-Chairs:

Dr. Henry G. Rylander, University of Texas

Dr. M. Bryant, University of Texas

Design Selection of Lubricant Application Methods for Tribological Elements - Solid, Liquid, Gas and Multiphase

Dr. Henry G. Rylander, University of Texas

A New Internet-Based Materials Standards' Cataloging System for the Energy Sector

Clarisse Molad, Data Exchange Technologies, Inc.

High Order Approximation of Frequency Constraints in Optimization of Plate Structures

Dr. Eysa Salajegheh, University of Kerman

7. Energy Information Management

Information Technology in Environmental Protection

Session Chair:

Lawrence P. Raymond, Oracle Corporation

Mark Gibson, Oracle Corporation

8. Emerging Energy Technology

Flammability and Explosion I

Session Chair:

Dr. R.K. Kumar, Atomic Energy of Canada Ltd.

Transient Modeling of the Flammable Atmospheres Formation within Fuel Storing Containers

Dr. R. Bunama and Dr. G.A. Karim, The University of Calgary

Effect of Time Exposure to Elevated Temperatures on the Flammability Limits of Some Gaseous Fuels

Dr. B.B. Ale and Dr. I. Wierzb, The University of Calgary

The Structure of Jet Diffusion Flames Issuing into a Co-Flowing Air Stream

Dr. N. Papanikolaou and Dr. I. Wierzb, The University of Calgary

9. Non Destructive Evaluation

Mechanical Integrity and Reliability Based Maintenance

Session Chair:

C. David Cowler, Westinghouse Savannah River Company

Inspection Process Equipment Based on Probability-of-Failure Rankings

David E. Hendrix, The Hendrix Group, Inc.

Risk Based Inspection Planning

Richard D. Cadwell, ARCO Chemical Company

Reliability Based Assessment of Inspection Requirements for Petrochemical Plants

Mark P. Connolly, Cyltek

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Symposium Chairs

Environmental Engineering

Margaret S. Woolridge, Texas A & M University
(Not Pictured)

Environmental issues are becoming an increasing concern as regulations become more stringent and natural resources are depleted. The symposium on Environmental Engineering covers a broad range of environmental topics of current interest including: pollutant detection, health, ecological and social impact of hazardous waste; and design for the environment.

Energy Information Management

Dr. Heinz Dieter-Knöll, FH NON
and Dr. Daniel Cooke, University of Texas-EI Paso
(Not Pictured)

The use of computers and software affect more and more the work of engineers. Beside of the traditional fields new emerging technologies arise like neural networks and natural language interfaces. New domains of application arise in the daily work of engineers: software for environmental technology and workgroup computing. These topics are addressed in the Computers in Engineering Symposium. In addition, the topics Software Process Models and Technical Databases address the more in theoretical issues of the audience interested in computing.

Emerging Energy Technology

Dr. K. Kumar, AEGL Research
(Not Pictured)

The Emerging Energy Technology Symposium provides a forum for disseminating information on conventional and currently emerging energy technologies. The topics of interest to the symposium are the fuel cell technology, dual fuel cycles, hydrogen energy, biogas, LNG and CNG engines, energy conservation and environmental and safety aspects of various futuristic energy technologies that show considerable promise of commercial development and public acceptance within the next decade. The forum is not limited to emerging technologies only. Aspects of conventional energy technology that affect the public health and environment such as formation of pollutants, way of reducing and controlling pollutants, and energy conservation technique are also of interest.

Non Destructive Evaluation

Paul Junghans, Western Atlas Logging
(Not Pictured)

Mr. Glenn T. Cunningham
Center for Electrical Power,
Tennessee Technology University
(Not Pictured)

Non-Destructive Evaluation of materials and mechanical systems has been long used to characterize and monitor the performance of complex structures and equipment where higher levels of design and operational performance are desired. Furthermore, scheduled maintenance cycles can often be extended or eliminated with the proper use of NDE. Reliability and risk based maintenance programs have proven to be cost effective approaches provided that unexpected failures can be controlled. This symposium includes a range of NDE topics including the techniques, developing standards, and organizational philosophy required to improve your maintenance programs. Additionally, the NDE of material properties and European industrial applications of NDE will also be included. This symposium is sponsored by the NDE division of ASME.

**ENERGY INFORMATION
MANAGEMENT**
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1:30 - 2:45PM

1. Heat Transfer

**Panel Discussion: Unsolved Heat Transfer Problems
in the Oil, Gas and Petroleum Industries**

Session Chair:

Dr. Yildiz Bayazitoglu, Rice University

Selected Speakers from the ENERGY WEEK '97 Conference
will answer questions from delegates.

2. Plant Engineering, Operations, Design & Reliability Plant Inspection

Session Chair:

Steve Taylor, Marathon Oil Company

**Corrosion of Steel and Stainless Steel Under
Thermal Insulation: Past, Present and Future**

William Ashbaugh, Ashbaugh Corrosion Consulting Services

**On-Line, Ultrasonic Examinations at
Elevated Temperatures (250-700 F)**

David Bajula, IESCO

3. Composite Materials Design & Analysis Materials and Material Properties

Session Co-Chairs:

Dr. T.Y. Kam, National Chiao Tung University

Dr. P.D. Herrington, University of New Orleans

Joining with Metal Powder and Electromagnetic Energy

Dr. Kiyohiro Miyagi, Dr. Moriaki Goya, Dr. Toshiyasu Sueyoshi,
Dr. Yasumasa Yamashiro, and Dr. Takeki Yafuso, University of the
Ryukyus, Dr. Massao Ushio and Dr. Kengi Ikauchi, Osaka University
and Dr. Tatushi Haneji, Industrial Government Laboratory of the
Okinawa Prefecture

**Joining Relatively Different Melting Point Materials
with Metal Powder and Electromagnetic Energy**

Dr. K. Miyagi, Dr. M. Goya, Dr. T. Sueyoshi, Dr. S. Itomura, Dr. H. Yara,
Dr. Y. Yamashiro, and Dr. T. Oshiro, University of the Ryukyus, Dr. M.
Ushio and Dr. K. Ikauchi, Osaka University and T. Haneji, Industrial
Government Laboratory of the Okinawa Prefecture

**Thermo-Mechanical Properties of Polyester
Mortar Using Recycled PET**

Dr. K.S. Rebeiz and Dr. A.P. Craft, Lafayette College

4. Structural Dynamics/Vibration/Buckling Neural Networks

Session Co-Chairs:

Dr. I.I. Esat, Brunel University

B. Paya, Brunel University

**Evolving Artificial Neural Networks
Using Direct Encoding Graph Syntax**

B. Kothari and Dr. I.I. Esat, Brunel University

**Review of Dynamical Systems Incorporating Viscoelastic
Damping Using Artificial Neural Networks**

P. Lodhia and Dr. I.I. Esat, Brunel University

Decoupling of Vibration Using

Hopfield Artificial Neural Network

Dr. A. Akbar and Dr. I.I. Esat, Brunel University

Fuzzy Petri Net Approach to Gearbox Fault Detection

Dr. W.K. Chuang, B. Paya and Dr. I.I. Esat, Brunel University

5. Tribology

Condition Monitoring & Preventive Maintenance

Session Co-Chairs:

Dr. Frederick Ling, University of Texas

Dr. A. Sadat, California State Polytech

Maintenance Science

Dr. Frederick Ling, University of Texas

**Why a Proactive Maintenance Program for Hydraulic
Oil is Part of Statistical Process Control**

Dr. Vichai Srimongkolkul, OilPure Technologies

**Equal Channel Angular Extrusion
as a New Manufacturing Technique**

Dr. L. Cornwell, Texas A & M University

The Structural Characteristics of a New Rail Track System

Dr. Lewis Lesley, Liverpool John Moores University

7. Energy Information Management Workgroup Computing

Session Co-Chairs:

Cheryl Boone, Loral Space Information Systems

Dr. Paul Gruenbacher, Johannes Kepler University

**Lock-free Interactive Concurrency Resolution
Algorithm for Real Time Groupware Applications**

R. Kanawati, LICRA

**Definition and Quality Assurance Concept for Workgroup
Computing, Workflow Management and Groupware**

C. Pahnke and Dr. Heinz Dieter-Knöll, FH NON

Logicon Group Decision Support

C. Lyukainen

8. Emerging Energy Technology Flammability and Explosion II

Session Chair:

Dr. Ida Wierzb, University of Calgary

**Formation of Flammable Clouds Due
to Rupture of a Natural Gas Pipeline**

Dr. O. Badr, United Arab Emirates University

**Vented Combustion of Hydrogen/Air/Steam in
Large Volumes: Effects of Vessel Size and Shape**

Dr. R.K. Kumar, G.W. Koroll

and J. Losel-Sitar, Atomic Energy of Canada Limited

**Partially-Premixed Laminar Jet
Flames from Star-Shaped Nozzles**

Dr. S.R. Gollahalli, The University of Oklahoma

9. Non Destructive Evaluation

An Update on Risk Based Inspection Projects

Session Chair:

C. David Cowler, Westinghouse Savannah River Company

Update on the API Risk Based Inspection Project

John T. Reynolds, Shell Oil Products Company

**Update on the EPRI Power Generation
Risk Based Inspection Pilot Studies**

Steve R. Gosselin, Electric Power Research Institute

3:15 - 4:30PM

1. Heat Transfer

**Panel Discussion: Unsolved Heat Transfer Problems
in the Oil, Gas and Petroleum Industries (cont.)**

Session Chair:

Dr. Yildiz Bayazitoglu, Rice University

Selected Speakers from the ENERGY WEEK '97 Conference
will answer questions from delegates.

Conference Committee

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Alabama A & M University

R.K. Kumar
Atomic Energy of Canada Ltd.

Rathi K. Bhattacharya
Bradley University

I.I. Esat
Brunel University

B. Lodhia
Brunel University

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Brunel University

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FH NON

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Hassan Al-Nagelm
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University of Alberta

Ghazi A. Karim
University of Calgary

Ida Wierzb
University of Calgary

Stephen Huang
University of Houston

Ali R. Ahmadi
University of Kansas

R.M. Sorem
University of Kansas

Karan S. Surana
University of Kansas

A. Ascoli
University of Milano

C. Bohatier
University Montpellier

Paul D. Herrington
University of New Orleans

S.R. Gollahalli
University of Oklahoma

S.P. Drakatos
University Patras

N.P. Matheou
University Patras

M. Goya
University of Ryukyus

K. Miyagi
University of Ryukyus

M. Elsayed
University of Southwestern Louisiana

M. Bryant
University of Texas

Daniel Cooke
University of Texas

Davor Juricic
University of Texas

Frederick Ling
University of Texas

Henry G. Rylander
University of Texas

Xianguo Li
University of Victoria

Susan Haller
University of Wisconsin Kenosha

John Roche
University of Wolverhampton

David Hurley
US West Advance Technologies

P.K. Basu
Vanderbilt University

Paul Junghans
Western Atlas Logging Services

C. David Cowler
Westinghouse Savannah River Co.

John Sullins
Youngstown State University

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Larry B. Strader

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please call our Fax On Demand line at 1.713.963.6297.
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3. Composite Materials Design & Analysis Composites Modeling and Applications

Session Co-Chairs:

Dr. Su-Seng Pang, Louisiana State University
Dr. Ali R. Ahmadi, University of Kansas

Viscoplastic Model for Metal-Matrix Composites Subjected to Cyclic Loading

Dr. Ganesh Thiagarajan
and Dr. George Z. Voyiadjis, Louisiana State University

Fatigue Damage Evolution in Uni-Directional Metal Matrix Composites Using a Micro-Mechanical Damage Model

Dr. Rainer Echle and Dr. George Z. Voyiadjis, Louisiana State University

Comparison of a Finite Control Volume and Finite Element Thermal Analysis of a Braided Composite Nozzle

Dr. Patrick F. Mensah and Dr. San Ibekwe, Southern University

On the Comparison of Thermo-Mechanical Characteristics of Textile Composites

Dr. Randall Cook, Dr. Sam Ibekwe, Dr. Patrick F. Mensah
and Dr. Sahib S. Chechl, Southern University

Heat Distribution in the Curing of Prepreg Fabric for Composite Pipe Joint

Dr. Michael A. Stubblefield, Dr. Chihdar Yang and Dr. Su-Seng Pang,
Louisiana State University and Richard H. Lea, Specialty Plastics

4. Structural Dynamics/Vibration/Buckling Dynamic Analysis

Session Co-Chairs:

B. Lodhia, Brunel University
Dr. I.I. Esat, Brunel University

Analysis of the Vibrator Excitation of Gear Systems for Fault Detection in Rotating Machinery

B. Paya and Dr. I.I. Esat, Department of Mechanical Engineering, Brunel
University and Dr. M.N.M. Badi, University of Hartfordshire

Response Simulation of Systems Incorporating Viscoelastic Damping Using Prony Series and State Space Representation

B. Lodhia and Dr. I.I. Esat, Brunel University

Developments in the Identification and Evaluation of Defects within Pile Formations Using Dynamic Test

Dr. D.M. Lilley, University of Newcastle

The Stochastic Analysis in the Soil-Machine System

Dr. P.A. Drakatos and Dr. T. Andreaskos, University of Patras

5. Tribology Manufacturing

Session Co-Chairs:

Dr. A. Sadat, California State Polytech
Dr. Fredrick Ling, University of Texas

An Analysis of Induced Error on the Diameter of a Cylindrical Workpiece in Turning

Dr. A. Sadat, California State Polytech

Numerical Simulation of Temperature Distribution in a Pulse Electro-Chemical Machine

Dr. S. Mansouri, Kerman University

Multi-Attribute Selection of the Tool Path in Pocket Machining

Dr. Shivakumar Raman, University of Oklahoma

Erosion of Candidate Hard Surface Coatings for Gate Valve Applications

Dr. David Wheeler, University of Southampton

7. Energy Information Management Natural Languages

Session Co-Chairs:

Dr. Susan Haller, University of Wisconsin - Kenosha
Dr. Syed Ali, Southwest Missouri State University

A Multi-Modal Interaction System Based on Incremental Interpretation of Natural Language

Dr. Shigeki Matsubara, Dr. Nobuo Kawaguchi, Dr. Hiroyuki Yamamoto,
Dr. Yasuyoshi Inagaki, Nagoya University

The Role of Natural Language Interaction in Electronics Troubleshooting

Dr. Carolyn Penstein-Rose, Carnegie Mellon University

B2: An Interactive Tool for Explaining Bayesian Reasoning in Natural Language

Dr. Susan McRoy, Dr. Susan Haller
and Dr. Syed Ali, University of Wisconsin - Milwaukee

8. Emerging Energy Technology Engines & Emission

Session Chair:

Dr. S.R. Gollahalli, University of Oklahoma

Exhaust Emissions of Gas Fueled Diesel Engines

Dr. Z. Liu and Dr. Ghazi A. Karim, The University of Calgary

Fuel NO_x Production During the Combustion of Low Calorific Value Fuel Gas

Dr. M. A. Colaluca and J.P. Caraway, Texas A & M University

The Use of a Burner Head Choke for NO_x Reduction

A. Kamal, Gordon-Piatt Energy Group, Inc.

ASME FUNCTIONS AT ENERGY WEEK '97

Monday, January 27

9:00AM - 4:00PM	Gas Lift Workshop
9:00AM - 5:00PM	Centrifugal Pumps Workshop (1 day at Hyatt Regency)
1:30PM - 4:30PM	Total Productivity Management Workshop
3:00PM - 5:00PM	ENERGY WEEK Executive Committee Meeting
5:00PM - 7:00PM	Journal of Energy Resources Technology (JERT) Associate Editor Training

Tuesday, January 28

9:00AM - 4:00PM	Gas Lift Workshop
12:00PM - 2:00PM	Petroleum Division Luncheon
12:00PM - 2:00PM	Heat Transfer Committee Luncheon (at Pet. Div. luncheon)
12:00PM - 2:00PM	Offshore Operations Committee Luncheon (at Pet. Div. luncheon)
5:00PM - 6:00PM	ENERGY WEEK '97 Student Paper Competition Presentations
5:00PM - 6:30PM	Materials Design and Analysis Committee Meeting
5:30PM - 7:30PM	Cryogenics Committee Meeting
5:30PM	Tribology Committee Dinner (offsite)

Wednesday, January 29

8:00AM - 1:00PM	Petroleum Division Executive Committee Meeting
12:00PM - 1:30PM	Associates Committee Luncheon
12:00PM - 1:30PM	Environmental Concerns Committee Luncheon
12:00PM - 1:30PM	Emerging Energy Technology Committee Luncheon
12:00PM - 1:30PM	Materials Design and Analysis Committee Luncheon
12:00PM - 1:30PM	Petroleum Production Technology Committee Luncheon
12:00PM - 1:30PM	Pipeline Engineering Committee Luncheon
5:00PM - 6:00PM	Petroleum Division Chairmen's Reception
5:00PM - 6:00PM	ENERGY WEEK Awards Dinner Reception
6:00PM - 9:00PM	ENERGY WEEK Awards Dinner

Thursday, January 30

1:00PM - 5:00PM	Piping Design and Pipe Stress Analysis Workshop (2 1/2 days at Hyatt Regency)
1:00PM - 5:00PM	Pressure Vessel Engineering Workshop (2 1/2 days at Hyatt Regency)
1:00PM - 5:00PM	Compressors: Modern Technology and Applications (2 1/2 days at Hyatt Regency)
12:00PM - 1:30PM	Computers in Engineering Committee Luncheon
12:00PM - 1:30PM	Drilling Technology Committee Luncheon
1:00PM - 3:00PM	ETCE/ENERGY WEEK Executive and General Committees Meeting
3:00PM - 5:00PM	Petroleum Division Executive and General Committees Meeting

Friday, January 31

9:00AM - 5:00PM	Piping Design and Pipe Stress Analysis Workshop (2 1/2 days at Hyatt Regency)
9:00AM - 5:00PM	Pressure Vessel Engineering Workshop (2 1/2 days at Hyatt Regency)
9:00AM - 5:00PM	Compressors: Modern Technology and Applications (2 1/2 days at Hyatt Regency)

Saturday, February 1

8:00AM - 5:00PM	Energy Resources Board Meeting (offsite)
9:00AM - 5:00PM	Piping Design and Pipe Stress Analysis Workshop (2 1/2 days at Hyatt Regency)
9:00AM - 5:00PM	Pressure Vessel Engineering Workshop (2 1/2 days at Hyatt Regency)
9:00AM - 5:00PM	Compressors: Modern Technology and Applications (2 1/2 days at Hyatt Regency)

Sunday, February 2

8:00AM - 12:00PM	Energy Resources Board Meeting (offsite)
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9. Non Destructive Evaluation Managed Plant Maintenance

Session Chair:

Paul G. Junghans, Western Atlas Loggin Services

A Transformational Approach to Plant Maintenance

Regina Kennison, Ernst & Young LLP

NDE and It's Contribution to Plant Management and Maintenance

John R. Decker and Raj R. Shah, Sonic Systems International, Inc.
Preventive Maintenance Saves Energy Companies Millions
Robert Davis, J.D. Edwards & Company

WEDNESDAY, JANUARY 29, 1997
8:45 - 10:00AM

2. Plant Engineering, Operations, Design & Reliability Fitness for Service I

Session Chair:

Oliver Onyewuanyi, Shell Oil Products Company

Remaining Life Evaluation of Coke Drums

Richard Bozwell, Stress Engineering Services, Inc.

Fitness for Service & Remaining Life Assessment for Process Equipment

Oliver Onyewuanyi, Shell Oil Products Company

Remaining Life Assessment & Prediction of Delayed Coker Drums

Tom Farraro, CITGO Petroleum Corporation

3. Composite Materials Design & Analysis Analysis and Measurement of Residual Stresses

Session Co-Chairs:

Dr. R.K. Bhalacharya, Bradley University
Dr. P.K. Saha, Alabama A & M University

Residual Stress Mapping by Neutron Diffraction - A Powerful, New Nondestructive Tool for Solving Engineering Problems

Camden R. Hubbard, Oak Ridge National Laboratory

Measurement and Prediction of Residual Stresses in Welded and Formed Components Subject to Stress

Corrosion Cracking
D.J. Hornbach and P.S. Prevey, Lambda Research

Determination of Residual Stresses by Means of Neutron Diffraction

Dr. H.J. Prask and Dr. P.C. Brand,
National Institute of Standards and Technology

Ultrasonic Evaluation of Residual Stresses in Iron Castings

Dr. Malur N. Srinivasan and Dr. Rathi K. Bhattacharya,
Bradley University

4. Structural Dynamics/Vibration/Buckling Vibration & Buckling II

Session Chair:

Dr. S.M. Sargand, Ohio State University

Two Dimensional Finite Element Model for LR55 Truck System

Dr. Fouad Mohammed, Liverpool John Mores University

Natural Frequencies of Square Plates with Reinforced Central Holes Subjected to Inplane Loads

Dr. Adnan Sabir, University of Wales Cardiff

Vehicle Noise Path Modeling for Interior Noise Variability Reduction

Dr. Richard Cornish, University of Central England

5. Tribology

Tribo-Physics, Tribo-Chemistry

Session Co-Chairs:

Dr. S.H. Mansouri, Kerman University
Dr. Davor Juricic, University of Texas

Integration of Power Optimization with Scheduling of Petroleum Pipelines

Michael Short, mc2, Inc.

Analysis of Gaseous Emissions Resulting from Combustion of Coal Water Slurry Fuel

Dr. S. Samudrala, Prairie View A & M University

Numerical Study of a Set of Well-Posed Fredholm Integral Equations of the Second Kind

R.M. Farahi, University of Kansas

Effect of Fluid Injection on Mixed Convection Between Parallel Plate Channel with Discrete Heat Sources

Dr. A. Keshavarz, Saheid Bahonar University of Kerman

6. Environmental Engineering Health, Ecological, and Social Impact/Design for the Environment

Session Chair:

George Holliday, Holliday Environmental Services

A Study on Environmental Equity in Three Southern California

Counties: Los Angeles, Orange, & San Diego

Dr. Rick Carpenter, Ogden Environmental & Energy Services, Inc.

Multi-Layer Caps for Containment of Sediment Associated Contaminants

Dr. G. Thoma, University of Arkansas

Investigation of the Effect of Diffusivity in the Transport and Spread of Contaminants in Groundwater Systems

Dr. Darin Nutter, University of Arkansas

7. Energy Information Management Neural Networks

Session Co-Chairs:

Dr. John Sullins, Youngstown State University
Dr. Andreas Scherer, Fernuniversitaet Hagen

An On-line Multisensor Integration Method of Signals in a Metal Cutting Operation via Multi-Layered Perceptron Neural Networks

Dr. Dimla E. Dimla, University of Wolverhampton



ASME International

ASME- Petroleum Division Engineering Leadership Luncheon

Tuesday, January 28, 1997, 12:00 - 2:00PM
3rd Level - George R. Brown Convention Center

The 19th annual Engineering Leadership Luncheon of the American Society of Mechanical Engineers - Petroleum Division will feature the presentation of two very prestigious petroleum industry awards; the Geoca Mechanical Engineering Achievement Award (Oil Drop) to an industry engineer who has made significant contributions to the technology of the industry, and the Von Nimitz Engineering Leadership Award for outstanding leadership/ management of peers in project, systems, or detail design engineering. There will also be a report to the membership by Adel Tawfik, Brown & Root, Inc., the Division Chair, and Ed Seiders, Wilbros Engineers, Inc., the immediate past Chair, on the Division's recent activities, changes, and plans for the next year. Special recognition will be given to the accomplishments of Division committee chairs, volunteers and members, along with some surprise awards. Plan to join your fellow Petroleum Division members at this special luncheon.

Cost: \$20 per person.

For more information, please contact the ASME Petroleum Division office, Tel: 1.713.493.3491 Fax: 1.713.493.3493.

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Fourth Biennial Joint Conference on Engineering Systems Design and Analysis
Berlin, Germany (tentative location) - July 1998

Sponsored by the Petroleum Division of the American Society of Mechanical Engineers (ASME), The Society for Design and Process Science (SDPS) and the International Association of Electronic and Electrical Engineers (IEEE)-Systems Integration Conference and co-sponsored by many of the world's leading engineering societies, ESDA '98 will be an exciting forum for international developments in systems design and analysis. Researchers from traditional engineering areas, genetic engineering, bioengineering, systems analysis, architecture, chemistry, physics, medicine, and business from 25 countries will participate. More than 400 technical papers will be presented on such design-related topics as:

- Design & Process Methods/Theories
- Interdisciplinary Approaches to Design
- Designing for Manufacturability/Reliability/Quality
- Design Tool Development
- Computer Integrated Manufacturing
- Computer Aided Design
- Concurrent Engineering
- Software Engineering & Artificial Intelligence
- Object Oriented Databases
- Image Processing
- Neural Networks
- Simulation
- Process Control
- Management Processes
- Process Improvement & Reengineering
- Environmental Control
- Design Analysis & Applications
- Planning & Modeling
- Composite Materials
- Energy Systems
- Robotics
- Fracture/Fatigue
- Vibration & Dynamics
- Nonlinear Systems
- Expert Systems
- Computational Mechanics
- Contact Mechanics
- Bioengineering
- Thermo Mechanics

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ASME International

An Attempt of the Simulation of Large-Scale Brain Activity
Dr. Rashid Faizullin, Omsk State University

Development of a Data Center for the Study of Environmental Change
Dr. Scott Starks, Pan American Center for Earth and Environmental Studies

8. Emerging Energy Technology Advances in Fuel Cells I

Session Chair:
Dr. A. Ascoli, University of Milano

Structure & Highlights of the Dutch Fuel Cell Programme
Dr. H. Barten, Netherlands Agency for Energy and the Environment: Novem

CNR-TAE's Activity on Fuel Cells
S. Freni, Institute CNR-TAE

Polymer Electrolyte Fuel Cell Stacks for Industrial Applications
A. Maggiori, De Nora S.p.A.

9. Non Destructive Evaluation Materials Properties Evaluation

Session Chair:
Malur Srivivasan, Lamar University

Residual Stress Evaluation Using Ultrasonic and X-ray Diffraction
M.N. Srivivasan, Lamar University
K. Kozaczek, Oak Ridge National Laboratory
Residual Stress and Stress Gradients in Ductile Iron Determined Using an Ultrasonic Method

J. Bennett, R. Pluger, & D.E. Bray, Texas A&M University
M.N. Srivivasan, Lamar University
Safety Evaluation of a Cable-Stay Bridge Using an Ultrasonic Method
S. Nakirekanti, D.E. Bray, Texas A&M University
M.N. Srivivasan, Lamar University

10:45 - 12:00PM

2. Plant Engineering, Operations, Design & Reliability Fitness for Service II

Session Chair:
Clint Britt, OxyChem

A Summary of Current Post-Construction Fitness-for Service Codes & Standards Activity
Greg Garic, Stress Engineering Services, Inc.

API 570 Background - How was it developed? Interpretation & Certification
John Reynolds, Shell

3. Composite Materials Design & Analysis Cutting Tool Analysis and Design

Session Co-Chairs:
Dr. Wanjun Wang, Louisiana State University
Dr. Karan S. Surana, University of Kansas

Finite Element Analysis of Dynamic Characteristics of Diamond Saw Blades
Dr. Zhe Huangfu, Dr. Su-Seng Pang, Dr. Chihdar Yang, Dr. Wanjun Wang, Dr. Reza A. Mirshams and Dr. H. Dwayne Jerro, Louisiana State University

Grit Distribution in Superabrasive Diamond Sawing
Dr. H. Dwayne Jerro, Dr. Su-Seng Pang, Dr. Chihdar Yang and Dr. Reza A. Mirshams, Louisiana State University

A Statistical Computation of Contact Parameters of Anisotropic Rough Surfaces

Dr. Zhe Huangfu, Dr. Su-Seng Pang, Dr. Chihdar Yang and Dr. Wanjun Wang, Louisiana State University

Prototype Design, Analysis, and Construction of an Accelerated Loading Facility
Dr. Su-Seng Pang, Dr. Chihdar Yang, Dr. Michael Ackman, Dr. Eric Amos, Dr. Jason Bitting, Dr. Stacy Delapasse and Dr. Gregory Knight, Louisiana State University

4. Structural Dynamics/Vibration/Buckling BioEngineering

Session Co-Chair:
Dr. S.P. Drakatos, University Patras
Dr. N.P. Matheou, University Patras

Experimental Analysis of Vibration in the Human Body
Dr. P.A. Drakatos, Dr. D. Skarlatos, Dr. N. Psychogios and Dr. S.P. Drakatos, University of Patras

Simulation of Man-Machine System for Mechanical Design
Dr. N.P. Matheou, Dr. P.A. Drakatos, Dr. S.P. Drakatos and Dr. V. Badekas, University of Patras

Diagnostic Reliability of Machines
Dr. P.A. Drakatos, Dr. S.P. Drakatos and Dr. D. Kaproulias, University of Patras

5. Tribology Wear/Corrosion & Design/Design Representation

Session Co-Chairs:
Dr. Davor Juricic, University of Texas
Dr. S.H. Mansouri, Kerman University

Determination of Significant Variables in Compound Wear Using a Statistical Model
Dr. John Punwa, Texas A & M University

A Six Nodes Locking Free Curved Beam Element Based on Curvature
Dr. S. Mansouri, Kerman University

Engineering Design Graphics Based on Detail Design in Concurrent Engineering
Dr. Davor Juricic, University of Texas

Computational Study of Turbulent Flow Over a Thick Rectangular Plate
Dr. M. Rahnama, Kerman University

6. Environmental Engineering Pollutant Behavior, Analysis and Remediation Technology

Session Chair:
Dr. Margaret Wooldridge, Texas A & M University

Geochemical Partitioning of Metals in Spent Drilling Fluids
G. Holliday, Holliday Environmental Services, Inc.

TBA Soil Remediation
Harold Vinegar, Shell E&P Technology Co.

Dr. Malcolm Andrews, Texas A & M University

7. Energy Information Management Software Process Models I

Session Co-Chairs:
Dr. John Roche, University of Wolverhampton
Dr. W. David Hurley, US West Advanced Technologies

DynMcDermott Support Processes Reengineering
Gregory A. Hansen, DynMcDermott Petroleum Operations Company

Iterative Development vs. Going Around in Circles: A Case Study
Judith Ahrens, Computer Sciences Corporation

The Software Architecture Process of the Software Life Cycle
Dr. Sharon A. White, University of Houston - Clear Lake

8. Emerging Energy Technology Advances in Fuel Cells I (cont.)

Session Chair:
Dr. A. Ascoli, University of Milano

In-Situ Characterization of Fuel Cell, Electrolyzer & Battery Systems
Dr. Guenter Simader, Institute for Integrated Energy Systems

Fuel Cells Technology
Angelo Dufour, Ansaldo Ricerche

Description and Verification of a Fuel Cell Stack Model
Dr. J.H. Lee & Dr. T.R. Lalk, Texas A & M University

Feeding a Medium Size PAFC Generator with Hydrogen Obtained by the Fermentation of Biomasses: A Preliminary Analysis
Dr. A. Ascoli, Dr. G. Francetti, Università Degli Di Milan

9. Non Destructive Evaluation European Industry NDE Applications

Session Chair:
Christina Nockemann, Federal Institute for Material Research and Testing

Practical Aspects in the Evaluation of Insulation Resistance of Rotating Machinery
David Nino, Inessman LTDA

1:30 - 2:45PM

2. Plant Engineering, Operations, Design & Reliability Equipment Failure Investigation

Session Chair:
Steve Taylor, Marathon Oil Company

Cost Effective Response to Plant Equipment Failure
James H. McHaney, Metallurgical Consultants, Inc.

Managing the Investigation of Equipment Failure
James H. McHaney, Metallurgical Consultants, Inc.

3. Composite Materials Design & Analysis Computational and Analytical Methods

Session Co-Chairs:
Dr. K. Miyagi, University of Ryukyus
Dr. R.M. Sorensen, University of Kansas

Geometrically Nonlinear Thermoelastic Response of Functionally Gradient Plates
Dr. Grama N. Praveen and Dr. J.N. Reddy, Texas A & M University

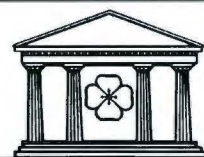
A Multilevel Hierarchical Preconditioner for Thin Solids
Dr. J.N. Reddy and Dr. John A. Mitchell, Texas A & M University

Stability Analysis of Thin-walled Fiber Reinforced Members
Dr. P.K. Basu and Dr. Animesh Dey, Vanderbilt University

First-Order Reliability Method for Design of Composite Materials
Dr. Paul D. Herrington, University of New Orleans

THAYER BEST MECHANICAL ENGINEERING ACHIEVEMENT AWARD COMPETITION FOR ENERGY WEEK EXHIBITORS

The American Society of Mechanical Engineers invites all ENERGY WEEK '97 Exhibitors to enter its 2nd annual competition. The Best Mechanical Engineering Achievement Award program is designed to give extra recognition and publicity to outstanding engineering teams from exhibiting companies. It recognizes the product, device or system displayed at the conference which best reflects innovative and/or practical use of mechanical engineering in solving a problem, improving a design, or maximizing performance. A panel of ASME senior engineers judges the entries. All members of the winning development team are recognized, industry media are notified, and the winning company gets both morale and PR benefits. The deadline for submitting entries is November 15, 1996. Call the ASME-Petroleum Division office at 1.713.493.3491 to get information or an entry form.



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At the 1996 ASME International Congress in November, the ASME Foundation will unveil a new initiative to significantly advance the mechanical engineering profession.

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A major capital campaign is being designed to help make this happen. Our goal is to raise a minimum of \$3,000,000 in new funds to be invested in the Foundation's permanent endowment. Significant recognition and marketing opportunities are an essential part of the Campaign.

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The ASME Foundation - investing in the future of our profession!

4. Structural Dynamics/Vibration/Buckling Dynamic Responses

Session Co-Chairs:

Dr. V. Karadag, Technical University of Istanbul
Dr. M. Erten, Technical University of Istanbul

Practical Reliability Analysis in Mechanical Design by Computers

Dr. M. Erten, Technical University of Istanbul

Dynamic of Thick Beam Systems with Heavy Masses, Rotatory Inertias and Axial Loads

Dr. V. Karadag, University of Istanbul

White Noise Response of Turbine Blades Subjected to Heat Flux and Thermal Gradients

Dr. O.K. Morgut, Dr. E. Aba and Dr. V. Karadag, University of Istanbul

Diagnostic Reliability of Machines

Dr. P.A. Drakatos, S.P. Drakatos and D. Kaproulias, University of Patras

5. Tribology

Hydrodynamics

Session Co-Chairs:

Dr. C.F. Kettleborough, Texas A & M University
Dr. A. Keshavarz, Saheid Bahonar University of Kerman

New Oils for Oil Mist Lubrication to Reduce Fine Oil Droplets in Stray Mist

Dr. A. Shamin and Dr. C.F. Kettleborough, Texas A & M University

Design of Partial Journal Bearing for Caritation Study

Dr. Houshang Masudi, Prairie View A & M University

Using Turbine Flowmeters for Measuring Multiphase Flow

Dr. Jack Cole, University of Arkansas

Two-Dimensional Boundary-Conforming Orthogonal Grids for External and Internal Flows Using Schwarz- Christoffel Transformation

Dr. S. Mansouri, Kerman University

6. Environmental Engineering

Recycling and Reuse Technology

Session Chair:

Dr. Malcolm Andrews, Texas A & M University

Pyrolysis of Scrap Rubber Tires

Timothy Scott, Caterpillar, Inc.

The Use of Re-refined Oil in Vehicle Fleets

Dr. Tim Maxwell, Texas Tech University

In-Situ Detection of Heavy Metals Laser Spark Spectroscopy

Dr. Margaret Wooldridge, Texas A & M University

7. Energy Information Management

Software Process Models II

Session Co-Chairs:

Larry B. Strader

Dr. Heinz Dieter-Knoll, FH NON

Recovery of Design and Specifications from Programs

Noah Prywes and Paul Rehmet,

Computer Command and Control Company

Leveraging the Cost of Software Testing with Measurable Process Improvement

Dr. Nancy S. Eickelmann and Dr. Debra J. Richardson,
University of California - Irvine

Representing User Preferences and Constraints in Engineering Design

Dr. Christine W. Chan, University of Regina

8. Emerging Energy Technology

Advances in Fuel Cells II

Session Chair:

Dr. S.R. Gollahalli, University of Oklahoma

Development and Perspective of Fuel Cell Technology in Italy

R. Vellone, ENEA Energy Department

Fuel Cells - An Increasingly Competitive Reality Now for Onsite Applications and for Mobile Applications Before the Year 2000

Dr. M. Nurdin, World Fuel Cell Council

Hydrogen Fed Fuel Cell Power

Plants for the Chemical Industry

T. Bozzoni and G.B. Caserza, CLC/ANSALDO, Genova, Italy

Phosphoric Acid Fuel Cell 1.3 MW Plant in Milan

A. Vigano, Municipal Utility of Milan

The Solid Polymer Fuel Cell: Market Prospects

& the Challenge of Commercialization

R. Evans, Johnson Matthey

3:15 - 4:30PM

3. Composite Materials Design & Analysis

Viscoelasticity and Composite Materials

Session Co-Chairs:

Dr. P.K. Basu, Vanderbilt University

Dr. Su-Seng Pang, Louisiana State University

A Dynamic System Approach to the Characterization of Linear Viscoelastic Response of Engineering Materials

Dr. Ping Yu and Dr. Y.M. Haddad, University of Ottawa

Aging Creep Transformation Functions

Dr. Vera B. Lazid, University of Belgrade

Numerical Stimulation of Damping Characteristics of Viscoelastic Materials in System Response

Dr. Ali R. Ahmadi, Dr. Karan S. Surana and Dr. R.M. Sorem,
University of Kansas

Determination of Damping Properties in Laminated Composites via Numerical Simulation

Dr. Karan S. Surana and Dr. Ali R. Ahmadi, University of Kansas

4. Structural Dynamics/Vibration/Buckling Modeling

Session Co-Chairs:

Dr. C. Bohatier, University Montpellier

Dr. M. Elsayed, University of Southern Louisiana

Adapted Algorithms for Smooth and Non-Smooth Motions in Multibody Systems Using Space and Time Finite Element Method

Dr. C. Bohatier, University of Montpellier

An Impact Modeling in Mechanisms,

Dr. M. Abadie and Dr. C. Bohatier, University of Montpellier

Effect of Blade Spacing of Polycrystalline Diamond Compact (PDC) Bits on Stability of Drillstrings

Dr. M. Elsayed and Dr. C.A. Dupuy,

University of Southwestern Louisiana

5. Tribology

Tribo-Energy

Session Co-Chairs:

Dr. A. Keshavarz, Saheid Bahonar University of Kerman

Dr. Seong Lee, Morgan State University

Effect of Firing Rates on Combustion

Characteristics of Coal-Water Slurry Fuel

Dr. Houshang Masudi, Prairie View A & M University

Remediation of Contaminated Soils

Dr. R. Radha, Prairie View A & M University

General Correlations for the Incident Solar

Radiant Energy in South-East Provinces of Iran

Dr. S.H. Mansouri, Kerman University

7. Energy Information Management

Technical Databases & Applied Computing

Session Chair:

Dr. Stephen Huang, University of Houston

Integrated Tools for Application Development for Technical Databases

Dr. Bogdan Czeido, and Dr. Kenneth Messa, Loyola University

System Design Using Complementary Processing Methodology

Ray Trout and Tse Lee, Superior Programming Services
and Ping-Chuen Tai and Stephen Huang, University of Houston

Making the Most of Production Field Data

Vernon Bachor, Kenonic Controls, Ltd.

8. Emerging Energy Technology

Alternative Fuels I

Session Chair:

Dr. Ghazi A. Karim, University of Calgary

The Effects of Pilot Fuel Quality on Dual Fuel Engine Ignition Delay

Dr. C. Gunea and Dr. Ghazi A. Karim, The University of Calgary

Alternative Fuels Flow Measurement (LNG & CNG) by Turbine Flowmeter

S. Kelly, Hoffer Flow Controls, Inc.

4,400 Alternative Fueled Vehicles: Technical Performance & Assessment of an Alternative Fuels Fleet

Don J. Lewis, Texas Department of Transportation

THURSDAY, JANUARY 30, 1997

8:45 - 10:00AM

3. Composite Materials Design & Analysis

Computational Methods for Singular Problems

Session Co-Chairs:

Dr. M. Goya, University of Ryukyus

Dr. K.S. Rebeiz, Lafayette College

λ Element Formulations Using Unequal Order C0 Interpolations

Dr. Karan S. Surana and Dr. Xie Feng, University of Kansas

2 D λ Elements Formulations for Fracture Mechanics

Using Unequal Order C0 Interpolations

Dr. Karan S. Surana and Dr. Xie Feng, University of Kansas

2 D λ Elements Formulations for Laminated Composites

Using Unequal Order C0 Interpolations

Dr. Karan S. Surana and Dr. Xie Feng, University of Kansas

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4. Structural Dynamics/Vibration/Buckling Nonlinearities

Session Co-Chairs:

Dr. I.I. Esat, Brunel University

Material and Geometrical Nonlinearity in Continuous Beam Bridges

Dr. B.A. Ogun, University of Southwestern Louisiana

Use of Quadratic Components for Buckling Calculations

C.R. Dohrmann and D.J. Segelman, Sandia National Laboratories

Exact Solution of Planar Bending of Arbitrary Curved Beams Under Distributed Loading with Account Taken of Axial and Shear Deformations

Ekmel Tufekci and Alaeddin Arpac, Technical University of Istanbul, Turkey

Flow of the Second-Order Viscoelastic Fluid Between Intersecting Planes

Yilmaz Ozturk and Serdar Baris, Technical University of Istanbul, Turkey

A Simplified Method for Analyzing Rotors with Conical Shell Sections

Jorgen L. Nikolajsen, Staffordshire University

5. Tribology

Tribo-Numerics

Session Co-Chairs:

Dr. Seong Lee, Morgan State University

Dr. S. Samudrala, Prairie View A & M

Simulation of Turbulent Flow in a Slider Bearing by Finite-Difference Method

Dr. C.F. Kettleborough, Texas A & M University

Presentation of a Specific Finite Element for Cables: Application to the Study of Interwire Motions in Single Strand Cables

A. Nawrocki, Laboratoire de Mecanique et Materiaux

Numerical Investigation of Unsteady Combined Convective Flow Between Horizontal Parallel Plates with Heat Sources

Dr. A. Keshavarz, Saheid Bahonar University of Kerman

A Numerical Study of Turbulent Flow Around a Series of Parallel Blunt Plates

Dr. M. Rahnama, Kerman University

7. Energy Information Management

Software Process Models III

Session Chair:

Dr. Heinz Dieter-Knoll, FH NON

Business Process Measurement

- A Measurement Application Method

Dr. John Roche, University of Wolverhampton

Criteria for Software Test Tool Selection and Their Consequences

Dr. Osman Aliyendoglu, University of Paderborn

8. Emerging Energy Technology

Alternative Fuels II

Session Chair:

Dr. Don J. Lewis, Texas Department of Transportation

Optimization of Emissions-Certified Dual Fuel Delivery Truck

Dr. D. Checkel, University of Alberta, P. Newman,

Alternative Fuel System International,

A. Nishimura, Nippon Ecology Work System Corporation

LNG Fueling for Transportation: The Net Generation of LNG Fueling Stations

Z. Meratli, CDS Research Ltd.

An Analytical Approach for Optimization of the Performance of a Gas Fueled Spark Ignition Engine

Dr. A.A. Attar and Dr. Ghazi A. Karim, The University of Calgary

10:45 - 12:00PM

3. Composite Materials Design & Analysis Computational Methods in Composites and Singular Problems

Session Co-Chairs:

Dr. R.M. Sore, University of Kansas

Dr. P.D. Herrington, University of New Orleans

Accurate Modeling of Laminated Composite Plates with Circular Cutouts

Dr. P.K. Saha and Dr. N.U. Ahmed, Alabama A & M University,

Dr. P.K. Basu, Vanderbilt University and Dr. A. Nagar,

Wright-Patterson AFB

Determination of the Strength of Singularity and Singular Solution Using LSFE

Dr. David Vandyne and Dr. Karan S. Surana, University of Kansas

Free Edge Effects in Laminated Composites and Their Numerical Simulation

Dr. Karan S. Surana, Dr. Ali R. Ahmadi and Dr. R.M. Sore, University of Kansas

4. Structural Dynamics/Vibration/Buckling

Vibration & Buckling III

Session Chair:

Dr. Hassan Al-Nageim, Liverpool John Moores University

Evaluation of Pavement Layers' Interface Bonding Conditions

Dr. Hassan Al-Nageim, Liverpool John Moores University

Response of Transient Radial Loading on Thin Tubes

Dr. John Bratt, Norwegian University of Science and Technology

Natural Frequencies of Square Plates with Eccentrically Located Square Holes When Loaded by Inplane Uniaxial and Biaxial Compression

Dr. Adnan Sabir, University of Wales Cardiff

8. Emerging Energy Technology

Sprays & Combustion I

Session Chair:

Professor D. Checkel, University of Alberta

Nonlinear Liquid Sheet Atomization

Dr. X. Li and Dr. S.A. Jazayeri, University of Victoria

Liquid Jet Atomization in a Compressible Gas Stream

Dr. T. Chen and Dr. X. Li, University of Victoria

Characteristic of Liquid Natural Gas Spray in a Quiescent Medium

Dr. S. Peters, Dr. A. Smith, Dr. R.N. Parthasarathy

and Dr. S.R. Gollahalli, The University of Oklahoma

1:30 - 2:45PM

8. Emerging Energy Technology Sprays & Combustion II

Session Chair:

Professor X. Li, University of Victoria

Break-up of Inviscid Incompressible Gas Jets in Liquids

Dr. K. Chiang, University of Oklahoma

Turbulent Combustion Modeling of Coal: Biomass Blends in a Swirl Burner

Dr. S. Dhanapalan, Texas A & M University

Performance of a Circulating Fluidized Bed Combustor

Co-Firing Deinking Sludge & Sub-Bituminous Canadian Coal

Dr. S. Julien, University of British Columbia

3:15 - 4:30PM

8. Emerging Energy Technology Energy Conversion & Conservation

Session Chair:

Professor K. Annamalai, Texas A & M University

Mechanism of Work Loss During Adiabatic Compression of a Saturated Mixture

Dr. David Tootle, Texas A & M University

A Generalized Relationship of Thermodynamic Availability for Hydrocarbons

Dr. Kam Li, North Dakota State University

Practical Energy Analysis of Centrifugal Compressor Performance Using ASME-PTC-10 Data

Dr. Douglas White, Aspen Technology

Sensible Heat Storage Technologies for Solar Thermal Applications

Dr. I. Dincer, University of Victoria

1997 PENNWELL CONFERENCES & EXHIBITIONS Oil & Gas Schedule of Events

JANUARY 28-30, 1997

8th Annual API/ASME ENERGY WEEK Americas '97 • Houston, Texas, USA
Focusing on the Future of the Oil, Gas and Petrochemical Industry

JANUARY 28-30, 1997

SUBSALT TECHNOLOGY '97 • Houston, Texas, USA
The World's First Integrated Conference & Exhibition on Subsalt Technology

APRIL 8-10, 1997

OFFSHORE EGYPT '97 • Cairo, Egypt
Egypt's Largest Event Covering the Offshore Oil & Gas Industries

JUNE 23-25, 1997

SHARED RESOURCES '97 • New Orleans, Louisiana, USA
The First Oil and Gas Industry Event to Focus on Business Trends for the 21st Century

SEPTEMBER 16-18, 1997

GIS for the OIL & GAS INDUSTRY • Houston, Texas, USA
6th Annual Conference & Exhibition Covering Geographic Information Systems
for the Oil & Gas Industries

OCTOBER 28-30, 1997

ENERGY WEEK INDIA '97 • New Delhi, India
The Premier Business and Technical Conference for the Oil & Gas Industries in India

NOVEMBER 3-5, 1997

DEEP OFFSHORE TECHNOLOGY, The Hague, Netherlands
The World's Pre-Eminent Deepwater Technology Forum

NOVEMBER 18-20, 1997

OFFSHORE WEST AFRICA '97, Accra, Ghana
The Continent's Largest Event Covering the Offshore Oil and Gas Industries

FOR MORE INFORMATION ON PARTICIPATING IN ANY OF THE ABOVE LISTED CONFERENCES & EXHIBITIONS, PLEASE CONTACT:

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Symposium Chair



Krish Krishnamurthy, The BOC Group, Inc.
The Intersociety Cryogenic Symposium is jointly sponsored by the American Society of Mechanical Engineers, The American Institute of Chemical Engineers and the International Institute of Refrigeration, Commission A3 and is held once every two years. The Eleventh Intersociety Cryogenic Symposium is being held as part of the Energy Week Conference & Exhibition. The aim of this symposium is to bring together researchers and practitioners of cryogenic technology and industrial gas separation. Paper presentations will include the latest developments in process equipment and technology for industrial gas separation and the production, properties and application of liquefied gases and refrigeration. Topics on industrial gases production also include safety and operability. Topics on refrigeration include production of cold at both liquid nitrogen and liquid helium temperatures.

Conference Committee

Ted Pawulski
Air Liquide Processes and Construction

Ya-Nan Liu
Air Products and Chemicals, Inc.

Robert Weimer
Air Products and Chemicals, Inc.

Krish Krishnamurthy
The BOC Group, Inc.

Chen-Hwa Chiu
Bechtel

Walter Castle
BOC Process Plants

Robert Thorogood
BOC Process Plants

Peter Kerney
CTI Cryogenics

Geoffrey Green
Naval Surface Weapons Center

Jeffrey Kingsley
Praxair, Inc.

Leslie Kun
Praxair, Inc.

Klaus Timmerhaus
University of Colorado

INTERSOCIETY CRYOGENICS
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TUESDAY, JANUARY 28, 1997
10:45 - 12:00PM

Cryogenic Coolers and Heat Exchangers I

Session Co-Chairs:

Peter Kerney, CTI Cryogenics

Geoffrey Green, Naval Surface Weapons Center

Experimental Investigation of Six

Value Pulse Tube Refrigerator

J. Plotenhauer, University of Wisconsin-Madison

Two-Stage Inter-Phasing Pulse Tube Cooler Development

J.L. Gao, Nihon University

Development of a Small Low Power 4K Cryocooler

Bruce Bent, Boreas Cryocoolers

Dynamics of Structure Formation and Heat and Mass

Transfer in Solid Capillary Porous Refrigerants

Andrey Rozhenster, The Odessa State Academy of Refrigeration

1:30 - 2:45PM

Cryogenic Coolers and Heat Exchangers II

Session Chair:

Peter Kerney, CTI Cryogenics

On Pulse Tube Cooler Thermodynamics

T. Frederking, University of California at Los Angeles

Performance of a Low-Temperature Gifford-McMahon

Refrigerator Utilizing a Neodymium Disk Regenerator

Geoffrey Green, Naval Surface Warfare Center

Perforated Plate Heat Transfer

T. Frederking, University of California at Los Angeles

Experimental Method for Determination

of Heatleak to a Cryogenic Pipe

Smriti Pattanayak, Indian Institute of Technology

3:30 - 4:45PM

Cryogenic Coolers and Heat Exchangers III

Session Chair:

Peter Kerney, CTI Cryogenics

Ejector Driven Cryogenic Heat Exchange Systems

Ron Lee, BOC Gases R&D

Performance of Counter-Current Heat

Exchangers Subjected to External Heating

Lionel Hewavitharana, Louisiana Tech University

Heat Transfer Through an Extended Surface Containing HE II

S. Van Sciver, FAMU-FSU College of Engineering

Minus 80 Degrees Freezer for the Intermediate Space Station

Joachim Wolf, Linde AG

WEDNESDAY, JANUARY 29, 1997
8:45 - 10:00AM

Cryogenic Thermophysical Properties and Transport Phenomena I

Session Chair:

Robert Weimer, Air Prod. & Chemicals, Inc.

Robust and Efficient Flash Calculations for Cryogenic and

Other Processes - Extension of the Bost-Britt "Inside Out"

Flash Algorithm to Extreme Conditions and New Flash Types

Vipul Parekh, Air Products and Chemicals, Inc. and Paul Mathias,

Air Products and Chemicals, Inc.

Vapor-Liquid Equilibrium in the Argon-Oxygen System

Nimmi Parikh, Cornell University

INTERSOCIETY CRYOGENICS

PROGRAM OUTLINE									
TUESDAY, JANUARY 28			WEDNESDAY, JANUARY 29			THURSDAY, JANUARY 30			
10:45 - 12:00PM	1:30 - 2:45PM	3:30 - 4:45PM	8:45 - 10:00AM	10:45 - 12:00PM	1:30 - 2:45PM	3:30 - 4:45PM	8:45 - 10:00AM	10:45 - 12:00PM	1:00 - 3:00PM
INTERSOCIETY CRYOGENICS									
Cryogenic Coolers and Heat Exchangers			Cryogenic Thermophysical Properties and Transport Phenomena			Cryogenic Operations: Safety and Reliability		Cryogenic Processes, Equipment and Machinery	
								Competitive and Complementary Process: PSA and Membranes	
								Cryogenic Gas Processing	

Dynamic Response of NASA Stennis Space Center

Test Stand Diffuser Under Acoustic Medium

Sankar Das, Tulane University

Thermal Conductivity and Dielectric Property

of Polymers and Cryo-Refrigerator

S.C. Pattanayak, Indian Institute of Technology

10:45 - 12:00PM

Cryogenic Thermophysical Properties and Transport Phenomena II

Session Chair:

Klaus Timmerhaus, University of Colorado

New Method of Direct Measurement

of Overcooling of Liquid Cryoproducts

Lev Reznikov, Beltran Inc.

Cryogenic Vessels: Heat Transfer Analysis of Penetration

Stan Augustynowicz, MVE Inc.

Performance of Foam Insulated Transfer Tubes

S.C. Pattanayak, Cryogenic Engineering Centre

Pressure Drop in Sharp Bend of Super Insulated Pipe

S.C. Pattanayak, Cryogenic Engineering Centre and Y. Bhanu Prasad,

Cryogenic Engineering Centre

1:30 - 2:45PM

Cryogenic Operations: Safety and Reliability I

Session Chair:

Ted Pawulski, Air Liquide Process and Construction

Confined Space Communication

Nigel Clare, Con-Space Communications

Safety Analysis and Risk Assessment for

Cryogenic Systems During Design Phase

Boris Blyukher, Indiana State University

BOC Gases Integrated Management Systems and Standards

Tony Anderson, BOC Gases Australia Limited

3:30 - 4:45PM

Cryogenic Operations: Safety and Reliability II

Session Chair:

Walter Castle, BOC Process Plants

Validation of Dynamic Simulation Models

of Cryogenic Air Separation Processes

David Espie, Air Products and Chemical, Inc.

Troubleshooting Flow Hydraulic

Problems in Cryogenic Systems

Richard Potthoff & Krish R. Krishnamurthy, BOC Gases

and Robert Mustello, BOC Process Plants

Use of Brazed Aluminum Heat Exchangers

for Producing Pressurized Oxygen

Robert Zawierucha, Praxair, Inc.

THURSDAY, JANUARY 30, 1997
8:45 - 10:00AM

Cryogenic Processes, Equipment and Machinery I

Session Chair:

Robert Thorogood, BOC Process Plants

Increasing the ASU Controllability by the

Use of Dynamic Modeling and Simulation

J. Nijsing, Air Liquid Centre de Recherche Claude Delorme

Energy Comparison of Nitrogen Production from Membrane and Cryogenic Distillation Process

Robert Thorogood, BOC Process Plants

Study of Binary Distillation Through

Thermodynamic Efficiency

Rakesh Agrawal, Air Products and Chemical Inc.

The Helium Cryogenic System of the Slovak

Academy of Sciences in Bratislava

Klaus Reuter, BOC Ag-Cryostar

10:45 - 12:00PM

Cryogenic Processes, Equipment and Machinery II

Session Chair:

Leslie Kun, Praxair Inc.

Integrated Machinery Systems for Cryogenic Processes

Consisting of Turboexpander, Compressor, High Frequency

Motor and Generator with Magnetic Bearings

Klaus Reuter, BOC AG-Cryostar

Structured Packings in Air Separation Plants

Albert Hug, Sulzer Chemtech Ltd.

The Comander-The Most Flexible Solution to the Challenge

of Variable Liquid Demands from Liquid Pumped ASU's

Brian Keenan, BOC Process Plants

Sizing and Selection of Ambient

Vaporizers for Cryogenic Applications

Roger Sowell, Cryogenic Experts, Inc.

1:00 - 3:00PM

Competitive and Complementary Process: PSA and Membranes

Session Chair:

Jeffrey Kingsley, Praxair, Inc.

Nitrogen PSA Developments

Alberto LaCava, The BOC Group

Membranes for Nitrogen Generation

Richard Pawulski, Air Liquide Process & Construction

Solid Electrolyte Ionic Conductors

Balu Balachandran, Argonne National Laboratory

Oxygen PSA Developments

Frank Notaro, Praxair, Inc.

3:30 - 4:45PM

Cryogenic Gas Processing

Session Co-Chairs:

Ya-Nan Liu, Air Products and Chemicals, Inc.

Chen-Hwa Chiu, Bechtel

Practical Proven Technology for Modest

Capacity, Modular, Skidded LNG Plants

Larry Weider, LNG Systems/Cryotherm

Novel LNG Technology

Joachim Wolf, Linde AG

Hydrocarbon Recovery in an Iso-Butane

Dehydrogenation Unit

Dennis C. Tanguay, Air Liquide Process & Construction

Heat Transfer Equipment in LNG Plants

Chen-Hwa Chiu, Bechtel

Gas Lift Workshop



ASME International

Registration Fee: \$130 (\$100 for API Task Group Members)
(includes luncheon and workshop materials)

Date: Monday, January 27, 1997, Tuesday, January 28, 1997

Time: 9:00AM - 4:00PM

Chair: Jim Lea, Amoco Production Research

Monday, January 27, 1997

9:00AM - Noon (Session I)

New Developments in Gas Lift

Session Chair: Cleon Dunham, Shell

Noon - 1:00PM (Luncheon)

1:00 - 4:00PM (Session II)

Troubleshooting and Operations

Session Chair: Dr. H.W. Winkler, Texas Tech University

Tuesday, January 28, 1997

9:00AM - Noon (Session III)

Manufacturing and Automation

Session Chair: Obren Lekic, CAMCO Services

Noon - 1:00PM (Luncheon)

1:00 - 4:00PM (Session IV)

API Gas Lift Task Group Meeting

Session Chair: Jim Bennett, Exxon Production Research

Topics:

- IV1 - Gas Lift Equipment Specification
- IV2 - Gas Lift Valve Performance Testing
- IV5 - Troubleshooting, Maintenance and Operations
- IV7 - Gas Lift Valve Repair
- IV8 - Gas Lift System Design and Performance Prediction

Introduction to Total Productivity Management (TPM)



ASME International

Date: Monday, January 27, 1997

Time: 1:30PM - 4:30PM

Cost: \$95.00 (includes workbook)

Presenter: Dr. Ernest Kistler, P.E.
Spatial Information Management Corporation

An intensive introduction to effective functioning as the "new Engineer/Manager for the 21st century." From a total systems perspective, the beneficial aspects of Concurrent Engineering, Total Quality Management (TQM), Taguchi robust methods, Re-Engineering, etc. are all subsets of Total Productivity Management (TPM), first enunciated by Kistler in 1987. This workshop is an introduction to the total systems picture, and will show you how to achieve dramatic productivity gains without so many of the pains. Dr. Ernest Kistler is a registered Professional Engineer in Texas with extensive publications from more than 40 years experience in applied systems methodologies and management of advanced systems development.

Estimating Emissions from Aboveground Storage Tanks

Date: Monday, January 27, 1997

Time: 8:00AM - 5:00PM

Cost: \$195.00

Presenter: Rob Ferry, TGB Partnership



American
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Institute

This seminar will provide attendees with training and reference materials essential for estimating storage tank emissions and determining compliance with EPA's Clean Air Act regulations. The program will cover the use of EPA's TANKS 3.0 along with helpful illustrations of equipment and corresponding loss factors. Additionally, attendees will receive an easy to use reference guide on relevant EPA regulations. Mr. Ferry is a recognized industry expert in storage tank emissions, and serves as a consultant to the American Petroleum Institute.



ASME International

Petroleum Division - South Texas Section Technical Workshops

WORKSHOP 1: Centrifugal Pumps (1 day)

Date/Time: Monday, January 27 - 9AM - 5PM

Cost: \$275.00 (includes lunch and workshop materials)

CEU: 7

Instructor: William E. (Ed) Nelson, Consulting Engineer

WORKSHOP 2: Piping Design and Pipe Stress Analysis

Dates/Times: Thursday, January 30 - 1 - 5PM

Friday, January 31 - 9AM - 5PM

Saturday, February 1 - 9AM - 5PM

Cost: \$685.00 (includes lunch on Friday and Saturday and workshop materials)

CEU: 1.8

Instructors: Dr. Quy Truong, M.W. Kellogg Company

Dr. Joe Fowler, Stress Engineering Services, Inc.

WORKSHOP 3: Pressure Vessel Engineering

Dates/Times: Thursday, January 30 - 1 - 5PM

Friday, January 31 - 9AM - 5PM

Saturday, February 1 - 9AM - 5PM

Cost: \$685.00 (includes lunch on Friday and Saturday and workshop materials)

CEU: 1.8

Instructors: James R. Farr, Babcock & Wilcox

Dr. S.C. Lou, Bechtel Corporation

Paul J. Kovach, Stress Engineering Services, Inc.

Richard Biel, Stress Engineering Services, Inc.

WORKSHOP 4: Compressors: Modern Technology and Applications

Dates/Times: Thursday, January 30 - 1 - 5PM

Friday, January 31 - 9AM - 5PM

Saturday, February 1 - 9AM - 5PM

Cost: \$685.00 (includes lunch on Friday and Saturday and workshop materials)

CEU: 1.8

Instructor: Heinz P. Bloch, Process Machinery Consulting

The workshops will be held at the Hyatt Regency Houston Hotel at 1200 Louisiana, which is located in downtown Houston. These workshops use a hands-on approach so that participants can make immediate use of the knowledge gained, upon completion of the course. Each attendee will receive a comprehensive set of workshop notes and/or textbook suitable for use as a daily reference in future work, a certificate of course completion and the registration of Continuing Education Units. Lunch is included on full days with refreshments available during breaks.

(Cancellation Policy: Full refunds will be made for cancellations received fifteen days prior to the first meeting of the workshop. Cancellations after that date are subject to a \$150.00 cancellation fee. No refunds will be made after the first meeting. Reservations are transferable at no charge upon written notice received prior to the first meeting.)

For more detailed information on any of the workshops,
Please call the ASME-Petroleum Division office,
Tel: 1.713.493.3491 Fax: 1.713.493.3493.

ISO 14000 - International Environmental Management and Auditing Standards

Date: Monday, January 27, 1997

Time: 8:00AM - 5:00PM

Cost: \$145.00

Presenter: William Feathergill Wilson, Strata Services

Grasp details of the emerging international environmental auditing standard being developed by a membership representing 110 countries. Many companies have adopted the ISO 9000 quality control concepts, and now they will be able to market under the umbrella of the ISO 14000 environmental standards. Learn how ISO 14000 compares with the European EMAS standards, the British 7750 and the origins of the U.S. environmental auditing standards. This course will include a review of the elements of the new ISO 14000 auditing standards including: Environmental Management Systems; Auditor Qualifications; Auditing Protocols; Environmental Labeling; Life Cycle Assessments; and numerous other emerging details.

Consulting Techniques for Professionals

Date: Thursday, January 30, 1997

Friday, January 31, 1997

Time: 8:00AM - 5:00PM

Cost: \$295.00

Presenter: Ray & Rosemary Colvin, Safety Dynamics, Inc.

This two day consulting techniques program offers managerial or technical experts the opportunity to understand totality and systematic methodology of the independent consulting practice and managing a consulting business in today's business culture. The subjects are covered in an open, fast paced environment, covering. All the major aspects of the consulting business for persons already in, or considering entering the profession.

Topics Include:

- Proposal Writing
- Marketing and Networking
- Negotiating Contracts
- Client Problem Solving
- Cash Flow & Working Capital Techniques

Ergonomics for Managers / Supervisors

Date: Friday, January 31, 1997

Time: 8:00AM - 4:00PM

Cost: \$145.00

Presenter: Robert Eckhardt, ProSafe Environmental

This course answers questions and deals with issues confronting managers, supervisors, and ergonomic teams regarding interventions for worker health and safety. Terminology, step by step procedures for program design plus data reflecting possible cost vs benefits of interventions will be presented. Lecture/discussion sessions will set the stage for small group problem solving sessions.

Topics Include:

- Ergonomic Terminology
- Ergonomic Hazard Recognition
- Regulatory Update
- Resources and Product Evaluation
- Workstation Modification
- Use of Checklists

Enterprise-Wide Real-Time Solutions Seminar

Date: Thursday, January 30, 1997

Time: 9:00AM - 12:00PM

Cost: No Charge - Call Angela Best
at 1.800.318.4450 to R.S.V.P.

When the best in real-time automation software-USDATA's FactoryLink® Enterprise Control System™ (ECS) - is put to work on today's leading 32-bit operating systems from Microsoft® - Windows NT™ and Windows® 95 - something unprecedented happens. USDATA's FactoryLink® system is a powerful application development toolset that automates manufacturing processes requiring real-time data acquisition and very high performance levels. Industries such as discrete and process manufacturing, utilities and regulatory compliance require the advanced real-time control that FactoryLink® ECS offers. Come and hear industry experts share new information about the future of real-time enterprise technology. And, learn how to develop Man-Machine Interfaces (MMI), Supervisory Control and Data Acquisition (SCADA) and other control applications with unparalleled simplicity, time and cost savings at the Enterprise-Wide Real-Time Solutions seminar.

REGISTERED ENVIRONMENTAL MANAGER / CERTIFIED ENVIRONMENTAL AUDITOR WORKSHOP & EXAMINATIONS

Date: Thursday, January 30, 1997
& Friday, January 31, 1997

Time: 8:30AM - 5:00PM (Thursday);
8:00AM - 5:00PM (Friday)

Cost: \$695.00* (includes Exam Fees)

Presenter: Dr. Valcar A. Bowman, CEP, REM, CEA, is NREP's Vice President of Education and Training. He has over twenty years of industrial environmental management experience, authored several environmental management books, and is a former U.S. EPA Advisory Committee member.

The National Registry of Environmental Professionals (NREP) believes qualified and credible environmental professionals should be nationally recognized and has therefore implemented programs to achieve that objective. Two such programs are the Registered Environmental Manager (REM) and the Certified Environmental Auditor (CEA). The Registered Environmental Manager (REM) is the highest professional management level of NREP registrations.

If you have any questions, please call:
Dr. Valcar Bowman @ 1.770.486.9253

This REM /CEA Workshop is designed to:

- Enhance the overall knowledge and effectiveness of REM, CEA, and AEP candidate environmental professionals including engineers, scientists, lawyers and managers.
- Prepare participants to take NREP's official Registered Environmental Manager (REM) or Certified Environmental Auditor (CEA) exam during the second day of the workshop.
- Supply participants with select study materials including a specially prepared copy of the recommended study guide, "A Practical Guide for Environmental Managers and Environmental Auditors".
- Award 1.4 Continuing Education Units to participants who successfully complete the workshop and examination.

REM / CEA Workshop topics to be covered include:

- Operating Philosophies and Environmental Ethics
- Environmental Management Tools and Systems
- ISO-14000 Requirements
- Air and Water Pollution Control
- Hazardous Waste Management
- Corrective and Remedial Actions
- Toxic Substances Control
- Environmental and Community Safety
- Emergency Preparedness Plans
- Audits, Assessments and Checklists

*Includes REM or CEA exam fee, or NREP annual renewal fee. Dr. Bowman will provide NREP registration material on site.

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C-K ASSOCIATES INC.
CAMERON
CAMPBELL & GRAVES
CET ENVIRONMENTAL SERVICES, INC.
CHARKATE/WORKSAFE
CHEMOLA DIVISION OF SOUTH COAST PRODUCTS, INC.
CINC
CINTAS CORPORATION
CIVACON
CHERRY DEMOLITION
COADE, INC.
COMM ENGINEERING
COMPLIANCE SOLUTIONS
CON-SPACE COMMUNICATIONS
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CONTROLOTRON
CORPEX TECHNOLOGIES, INC.
CSC (COMPUTER SCIENCES CORPORATION)
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Exhibit Opportunities

Still trying to decide how your company will benefit by exhibiting at ENERGY WEEK? If you need information on demographics, event layout, attendance breakdown, pricing, enhancement opportunities and exclusive exhibitor benefits, call 1.713.621.8833 for details.

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 STANDARD FASTENERS & ALLSTATE SUPPLY CO.
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 TEXAS NAMEPLATE COMPANY INC.
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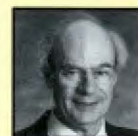
If your Houston-area company wants to send more than 50 people at one time to ENERGY WEEK, we will do the driving for you! A chartered bus will be sent to your facility to pick up your employees and drop them off at the George R. Brown Convention Center. At a pre-arranged time, transportation will be waiting to take your group back to your office.

WHAT COULD BE MORE CONVENIENT?

This fantastic opportunity will allow your company to send a large group of employees without the hassles of organizing carpooling or finding a parking space. And because the buses are chartered, your group is guaranteed a clean comfortable ride.

For more information on our VIP BUSING PROGRAM, please call Corey Smith today at 1.713.963.6238.

For a special evening... attend the
 ENERGY WEEK Conference Dinner.



Dr. John Lienhard

Wednesday, January 29, 1997
 Reception (cash bar): 5:00PM
 Dinner: 6:00PM
 3rd Level, George R. Brown Convention Center

ENERGY WEEK conference delegates are invited to relax in the evening after an informative day at the conference. Bring your companion or clients to the annual ASME - ENERGY WEEK Awards Reception and Dinner. One of the highlights of the week, this year's dinner will feature fine food and drink, entertainment and a presentation of conference awards honoring outstanding accomplishments. Winners of the "Best Mechanical Engineering Achievement" award for exhibitors and the "Student Technical Paper Competition" will be announced.

John Lienhard, the MD Anderson Professor of Mechanical Engineering and History at the University of Houston, and the author/host of "The Engines of Our Ingenuity," heard nationally on Public Radio, will take the audience on a nostalgic trip down "The Highways of the 30's - America in Transition," describing how engineering advancements in automotive technology, fuels, and service have changed our society. Entertainment will also be provided by the 30-member orchestra from the Bellaire Middle School, with the proceeds from the dinner supporting the school's music program. Enjoy a great meal, the company of your fellow delegates, and a fun presentation. Plan now to attend this festive evening, and call to arrange a table for your company. Guest tickets will be sold separately.

Cost: \$25.00 per person

For more information, please contact:
 ASME International - Petroleum Division
 11757 Katy Fwy., Suite 865
 Houston, TX 77079
 Tel: 1.713.493.3491 Fax: 1.713.493.3493

HOTEL INFORMATION

To make your reservations contact:

ENERGY WEEK '97
 c/o VIP Meetings & Conventions
 1515 Palisades Drive, Suite I
 Pacific Palisades, CA 90272-2113

Tel: 1.800.926.3976 or 1.310.459.0600
 (M-F, 8:00AM - 5:00PM, Pacific Time)

Fax: 1.310.459.0605

Rates are subject to state and local tax;
 currently 15%

Shuttle service will be provided to and from
 the convention center

Official ENERGY WEEK '96 Hotels:

Four Seasons Hotel (Headquarters Hotel)

1300 Lamar Street, Houston, 77010
 Rates: \$140 Single; \$150 Double
 2 blocks to Convention Center

Hyatt Regency Houston

1200 Louisiana Street, Houston, 77002
 Rates: \$125 Single or Double
 8 blocks to Convention Center

Doubletree Hotel at Allen Center

400 Dallas Street, Houston, 77002
 Rates: \$116 Single or Double
 9 blocks to Convention Center

Holiday Inn Select

2712 Southwest Fwy, Houston, 77098
 Rates: \$78 Single or Double
 5 miles to Convention Center

Hospitality Suites are available to registered exhibitors only. To make your reservations and to receive detailed information on layouts and rates, call VIP Meetings & Conventions at 1.800.926.3976 or 1.310.459.0600.

AVAILABILITY OF HOTEL ROOMS CANNOT BE GUARANTEED AFTER DECEMBER 15, 1996.

TRAVEL INFORMATION



Southwest Airlines is proud to be the Official Airline of the ENERGY WEEK Conference & Exhibition. To take advantage of Southwest Airlines special discounted fare offer, call Southwest Airlines Group Desk at 800-433-5368. Call no later than January 17, 1997 and refer to Identifier Code C1187. Discounts are only available by phoning Southwest Airlines Group Desk at 1.800.433.5368, Monday - Friday, 8:00AM - 5:00PM (Central Time).

PLEASE COMPLETE HOTEL FORM AND RETURN TO:

ENERGY WEEK '97
 c/o VIP Meetings & Conventions
 1515 Palisades Drive, Suite I
 Pacific Palisades, CA 90272-2113
 Tel: 1.800.926.3976 or 1.310.459.0600
 Fax: 1.310.459.0605

SELECT HOTELS BY NAME IN ORDER OF PREFERENCE

1 _____
 2 _____
 3 _____
 4 _____

ROOM TYPES:

_____ S = Single (1 person, 1 bed)
 _____ D = Double (2 persons, 1 bed)
 _____ D/D = Double/Double (2 persons, 2 beds)
 _____ S1 = 1 Bedroom Suite
 _____ S2 = 2 Bedroom Suite
 _____ H = Hospitality Suite

• Book early to ensure your hotel preference. Confirmation will be sent by the hotel directly.

• After confirmation, notify housing office of any changes or cancellations.

• First night's deposit plus tax is required for all hotels.

• Fill out credit card section on the form, including credit card number, expiration date and signature authorizing billing.

• Photocopy this form for additional names.

• Shuttle service to and from the Convention Center is included in the rates.

CANCELLATION POLICY

• Deposit is refundable if cancelled at least 72 hours prior to arrival.

A CONFIRMATION WILL BE SENT TO THE ADDRESS BELOW: PLEASE TYPE OR PRINT CLEARLY

Contact Name _____

Company _____

Address (for confirmations) _____

City _____ State _____ Zip _____

Country _____ Phone () _____ Fax () _____

Name _____ Share With _____

Arrival Date _____ Time _____ Departure Date _____ Time _____

Special Requests (honored when possible) _____

Please charge my credit card: ☐ AMEX ☐ Diners ☐ DISCOVER ☐ MasterCard ☐ VISA ☐ Other

Card Number _____ Expiration Date _____

Full Name on Card _____

Signature (required) _____

☐ Payment Enclosed \$ _____ (Please make check payable to hotel.)

CORPORATE REGISTRATION

The ENERGY WEEK '97 Corporate Registration Plan allows companies and organizations to maximize the value of the ENERGY WEEK Conference & Exhibition at a minimum cost. A Corporate Plan permits a company to register up to twenty delegates for a fee less than five individual registrations. Delegates may be from any office, plant, or even subsidiary companies. Two Corporate Plans entitle a company to register an unlimited number of delegates. Corporate registration may be reserved before the names of all the delegates have been determined. Individual registration fees already paid may be applied to a Corporate Plan.

CONFERENCE FEES

Discounts on Conference Registration Fees

- 50% for all exhibiting companies
- 50% for students and government agencies

Conference Registration Fees Include:

- Admission to all conference sessions
- One volume of conference papers
- Official Show Program
- Coffee and refreshments during breaks
- Admission to exhibits

ADDITIONAL INFORMATION

- Conference and exhibition credentials are the responsibility of the attendee and are nontransferable. Lost credentials may be replaced at the discretion of the Show Management upon presentation of receipt.
- No person under the age of 18 is allowed in the exhibit hall without the prior written approval of the Show Management.
- Canvassing in the exhibit hall, or distribution of advertising matter by representatives of non-exhibiting firms is strictly forbidden.
- Cameras are not permitted in the exhibit hall or meeting rooms.

CANCELLATION POLICY

Cancellations received on or before December 15, 1996, are fully refundable. Cancellations received between December 16, 1996, and January 15, 1997, are 50% refundable. No refunds after January 15, 1997. Substitutions are allowed at any time provided the ENERGY WEEK '97 Management is notified.

ASME MEMBER REGISTRATION FEE INFORMATION

	Before 1/15/97	After 1/15/97
ASME Registration Fees		
ASME Member Full Registration	\$230	\$265
ASME Member One-Day Registration	\$115	\$115
ASME Life Member (retired)	\$30	\$30
ASME Student Member	No charge	No charge
Engineering Student	\$15	\$15
Cooperating Societies **	\$260	\$300
Spouse	No charge	No charge
ASME Petroleum Division Luncheon	\$20	\$20

* Registration fee for engineering students (non-ASME member) can be applied to first-year ASME student member dues.

**To qualify for discounted registration, you must be a member of: ABCM - Brazil, AICHE, AIIE-Spain, AIME-Columbia, AMIME-Mexico, ASMECCANICA-Italy, BSE-Bahrain, CAI-Argentina, CIV-Venezuela, CSME-Canada, CMES-China, CMES-Czech., CSME-Taipei, ESE-Egypt, FAIE-Spain, GCM-France, GTE-Hungary, HKIE-Hong Kong, HSMEE-Greece, IDA-Denmark, IE-Australia, IE-Bangladesh, IE-India, IE-United Kingdom, IE-Indonesia, IEE, IE-Ireland, IE-Singapore, IME-India, IMechE-United Kingdom, IPENZ-New Zealand, ISF-France, JSME-Japan, KSME-Korea, KIVI-The Netherlands, NSCE-Norway, OE-Portugal, PSME-Philippines, RAN-Russia, RSME-Romania, SBM-Belgium, SIMP-Poland, SMEI-Israel, SMES-Slovakia, SMETU-Yugoslavia, SMR-Sweden, TCME-Turkey, UIT-Italy, USME/UAN-Ukraine, VDI-Germany.

Please indicate membership number on registration form.

API MEMBER DISCOUNT INFORMATION



All API Member Companies are eligible to receive Automatic Select-Plus Corporate Plan Benefits and Pricing. Call Yvonne Moreno: 1.713.963.6204 for Details.

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ENERGY WEEK

Conference & Exhibition

Guarantee

If for any reason ENERGY WEEK '97 does not satisfy your expectations, contact the ENERGY WEEK '97 Management in writing by February 14, 1997, for a complete refund of your conference registration fee.

All individuals must show proof of attendance to qualify

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[HTTP://PENNWELL.COM/ENERGYWEEK.HTML](http://pennwell.com/energyweek.html)

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ENERGY WEEK '97 REGISTRATION

GEORGE R. BROWN CONVENTION CENTER, HOUSTON, TEXAS USA

JANUARY 28 - 30, 1997

Register Early
and Save!

All fields of information (Part 1 - Part 10) must be filled in COMPLETELY in order for this registration to be processed!

1. PRIMARY COMPANY TYPE

- | | | | | | |
|---|--|--|---|--|--|
| <input type="checkbox"/> Oil & Gas Operator | <input type="checkbox"/> Refinery | <input type="checkbox"/> Petrochemical | <input type="checkbox"/> Terminal Operator | <input type="checkbox"/> Storage Facility | <input type="checkbox"/> Oil/Gas Marketing |
| <input type="checkbox"/> Pipeline | <input type="checkbox"/> Service Co. | <input type="checkbox"/> Construction/Contractor | <input type="checkbox"/> Equipment Manufacturer | <input type="checkbox"/> Supplier/Manufacturer | <input type="checkbox"/> Wholesale/Distributor |
| <input type="checkbox"/> Engineering | <input type="checkbox"/> Government/Regulatory | <input type="checkbox"/> Research & Development | <input type="checkbox"/> Lab, Testing/Measure/Anal. | <input type="checkbox"/> College or University | <input type="checkbox"/> Other |

2. JOB FUNCTION: CHECK ALL THAT APPLY

- | | | | | | |
|---|---|---|--|------------------------------------|----------------------------------|
| <input type="checkbox"/> Purchasing | <input type="checkbox"/> Safety | <input type="checkbox"/> Environmental | <input type="checkbox"/> Legal/Insurance/Financial | <input type="checkbox"/> Final | <input type="checkbox"/> Specify |
| <input type="checkbox"/> Storage Operations | <input type="checkbox"/> Terminals Operations | <input type="checkbox"/> Industrial/Occupational Health | <input type="checkbox"/> MIS/Computers | <input type="checkbox"/> Recommend | <input type="checkbox"/> None |
| <input type="checkbox"/> Engineering | <input type="checkbox"/> Sales/Marketer | <input type="checkbox"/> Plant Operations/Management | <input type="checkbox"/> Exploration | | |
| <input type="checkbox"/> Production | <input type="checkbox"/> Communications | <input type="checkbox"/> Instrumentation/Controls | <input type="checkbox"/> Administrative/Accounting | | |
| <input type="checkbox"/> SCADA/Automation | <input type="checkbox"/> Maintenance | <input type="checkbox"/> Project Management | <input type="checkbox"/> Other | | |
| <input type="checkbox"/> Research & Development | <input type="checkbox"/> Education/Training | <input type="checkbox"/> Pipeline Operations | | | |

3. PURCHASING ROLE

4. CONFERENCE FEES

- | | |
|--|-----------|
| <input type="checkbox"/> Individual 3 - Day Registration | |
| Before 1/15/97 | \$345.00 |
| After 1/15/97 | \$395.00 |
| <input type="checkbox"/> Single Day Conference Registration | \$175.00 |
| <input type="checkbox"/> Booth Staff Conference Registration | \$175.00 |
| <input type="checkbox"/> Registration for Exhibition Only | |
| Before 1/15/97 | No Charge |
| After 1/15/97 | \$20.00 |

5. CORPORATE REGISTRATION

- | | |
|--|-----------|
| <input type="checkbox"/> Corporate Registration Plan | |
| (Register up to 20 delegates for one low price) | |
| Before 12/01/96 | \$1595.00 |
| After 12/01/96 | \$1895.00 |
| <input type="checkbox"/> Select-Plus Corporate Registration Plan | |
| (Register an unlimited number of delegates) | |
| Before 12/01/96 | \$2595.00 |
| After 12/01/96 | \$2995.00 |

6. CONFERENCE PAPERS

Conference delegates have the option to choose a volume of Conference Papers: (Must Check only one)

- ☐ PETRO-SAFE
- ☐ PIPELINES, TERMINALS & STORAGE
- ☐ PROCESSING & REFINING
- ☐ DRILLING & PRODUCTION OPERATIONS
- ☐ ENERGY ENGINEERING
- ☐ ENERGY INFORMATION MANAGEMENT
- ☐ CRYOGENICS

7. OPTIONAL WORKSHOPS/SHORT COURSES

- | | | | |
|---|----------|--|-----------|
| <input type="checkbox"/> Registered Environmental Manager/Certified Environmental Auditor | \$695.00 | <input type="checkbox"/> Consulting Techniques for Professionals | \$295.00 |
| <input type="checkbox"/> ISO 14000 - Environmental Management & Auditing Standards | \$145.00 | <input type="checkbox"/> Ergonomics for Managers/Supervisors | \$145.00 |
| <input type="checkbox"/> Estimating Emissions from Aboveground Storage Tanks | \$195.00 | <input type="checkbox"/> Piping Design and Pipe Stress Analysis | \$685.00 |
| <input type="checkbox"/> Introduction to Total Productivity Management | \$95.00 | <input type="checkbox"/> Pressure Vessel Engineering | \$685.00 |
| <input type="checkbox"/> Gas Lift Workshop | \$130.00 | <input type="checkbox"/> Compressors: Modern Technology & Applications | \$685.00 |
| <input type="checkbox"/> Gas Lift Workshop for API Task Group | \$100.00 | <input type="checkbox"/> Enterprise-Wide Real-Time Solutions Seminar | No Charge |
| <input type="checkbox"/> Centrifugal Pumps | \$275.00 | | |

8. ASME - ENERGY WEEK CONFERENCE DINNER \$ 25.00

(Wednesday January 29 - 6:00 p.m.)

ASME PETROLEUM DIVISION LUNCHEON \$ 20.00

(Tuesday January 28 - 12:00 p.m.)

9. REQUEST FOR ADDITIONAL INFORMATION

Special for Houston Area Companies

- ☐ Yes, My company is planning to send more than 50 people at one time to ENERGY WEEK. I would like to be contacted about complimentary busing opportunities.

- ☐ Exhibiting Information
☐ Free Trial Membership to HESS
☐ I wish to receive a FREE subscription to OG&PE Magazine

10. PLEASE REGISTER THE FOLLOWING:

(PHOTOCOPY THIS FORM FOR ADDITIONAL REGISTRANTS)

Name _____

Title _____

Company _____

Address _____

City/State/Zip _____

Country/Code _____

Phone _____ Fax _____ E-mail _____

☐ API Member Company

ASME Membership Number* _____

Cooperating Society* _____ Membership Number _____

(* ASME & Cooperating Society Members please see page 45 for registration fees)

METHOD OF PAYMENT

- ☐ Payment Enclosed ☐ Check here for exhibit hall only
- ☐ Please charge my: ☐ MasterCard ☐ VISA ☐ Discover ☐ AMEX

Card Number _____ Expiration Date _____

Full Name (As appears on card) _____

Signature (Required for credit card payments) _____

PAYMENT

Conference Fee \$ _____

Plus Optional Workshops/Shortcourse \$ _____

Plus Awards Dinner/Luncheon \$ _____

Total \$ _____

Credit Card Payments may be faxed to the ENERGY WEEK '97 Office in Houston, Texas:

FAX: 1.713.963.6291

MAIL COMPLETED FORM WITH CHECK TO:

ENERGY WEEK '97
3050 Post Oak Boulevard, Suite 205
Houston, Texas 77056-6524 USA
REGISTRATION TEL: 1.713.621.8833
[HTTP://PENNWELL.COM/ENERGYWEEK.HTML](http://pennwell.com/energyweek.html)

ENERGY WEEK '97 CONFERENCE & EXHIBITION

January 28-30, 1997

George R. Brown Convention Center
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ENERGY WEEK '97
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Rebecca FVI

FAX COVER SHEET

To: Public Advisory Group

From: Shirley

Date: Dec 31, 1996

Comments:

Total Pages: one

The teleconference work session on the *Comprehensive Community Plan for the Restoration of Archaeological Resources in Prince William Sound and Lower Cook Inlet* is **rescheduled to Tuesday, January 14, 1997 9:00 a.m. to noon**. The members not in Anchorage may call 1-800-315-6338. After the recorded message, press 724 (PAG) then the # (pound) sign. All Anchorage PAG are encouraged to meet at the Exxon Valdez Restoration Office, 645 G Street, Fourth Floor Conference Room to participate.

If you have any questions, please call me.

Thank you.

PUBLIC ADVISORY GROUP MEMBERS INCLUDE:

Rupe Andrews
Torie Baker
Chris Beck
Pamela Brodie
Sheri Buretta
Dave Cobb

Chip Dennerlein
Eleanor Huffines
Mary McBurney
Vern McCorkle
Charles Meacham
Brenda Schwantes

Stacy Studebaker
Charles Totemoff
Howard Valley
Senator Lincoln
Representative Austerman
Doug Mutter

Jim King and Nancy Yeaton via mail

Document Sent By: Shirley

12/20/96


Exxon Valdez Oil Spill Trustee Council

645 G Street, Suite 401, Anchorage, AK 99501-3451 907/278-8012 fax: 907/276-7178



MEMORANDUM

TO: Agency Liaisons
Dr. Robert Spies
Carrie Holba

FROM: Eric F. Myers 

DATE: December 31, 1996

SUBJ: Report Writing Procedures — Revised Update

The Trustee Council procedures for the preparation and distribution of final and annual reports was last updated in August 1995. Since that time, a variety of questions have emerged that warrant an additional update of the procedures.

Attached you will find an updated draft of the report writing procedures. Also provided is a summary listing of the changes reflected in the revised draft. For the most part, these changes simply provide additional clarity or more accurately reflect practices that are currently in place. One new reporting element for final reports is included regarding the types of data developed as a result of a project.

Please review of this updated version of the report writing procedures and direct any comments to me. If there is a need to discuss any of the changes, there will be an opportunity at the next meeting of the Restoration Work Force on Wednesday, January 15th at 9:00 am at the Restoration Office.

Please let me know if you have any questions. It is intended that after the Restoration Workforce meeting on January 15, the update will be finalized so that the most current report procedures can be available for distribution at the annual Restoration Workshop.

cc: Stan Senner
Sandra Schubert
Celia Rozen

Updated Report Writing Procedures

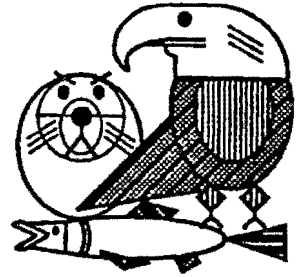
The attached updated draft of the report writing procedures:

- clarifies that both final and annual reports are due on April 15;
- clarifies that no annual report is required in the last year of a project when a final report is also being prepared;
- includes the mailing address, phone, fax, and e-mail address for the Chief Scientist (Dr. Robert Spies), Science Coordinator (Stan Senner), and the Director of OPSIC (Carrie Holba);
- clarifies that the format review (by OSPIC) was the same for final and annual reports;
- adds guidelines for the use of manuscripts to meet reporting requirements;
- clarifies that project reports should reflect the project number from the year in which the project work was last conducted (not the report writing or "closeout" year);
- clarifies that revisions to annual reports following peer review are generally not expected unless there is a severe mistake or error that the Chief Scientist feels must be corrected prior to acceptance;
- clarifies that PI's can choose to revise annual reports in response to peer review comments but that the standard statement on the annual report cover that peer review comments have not been addressed will only be removed if the revisions have been approved by the Chief Scientist;
- provides that project reports include a summary of the types of data collected during the project in order to preserve the opportunity for other researchers to access this data in the future, including identification of the current location of the data and a permanent institutional contact; and
- adds a table of contents.

Exxon Valdez Oil Spill Trustee Council

Restoration Office

645 G Street, Suite 401, Anchorage, AK 99501-3451
907-278-8012 Fax: 907-276-7178



MEMORANDUM

TO: JoEllen Hanrahan
FROM: *Traci Cramer*
Traci Cramer
Administrative Officer
DATE: December 31, 1996
RE: Chenega-Area Oiling Project

The Chenega-Area Shoreline Residual Oiling Reduction project was approved by the Trustee Council on June 28, 1996. At the meeting, the Trustee Council approved a sum not to exceed \$1.9 million for both Phase I and Phase II of the project. In addition, the motion specified that all funding was subject to final review and approval by the Executive Director of the Detailed Project Description (DPD) and detailed budget.

The total approved was based on a draft DPD and detailed budget proposed by the Department of Environmental Conservation. Phase I represented development of a remediation plan, selection of a remediation contractor, NEPA compliance and required permitting. The schedule anticipated that work would commence in July and that Phase I would be completed in November. Phase II is defined as the actual cleanup, and includes post-treatment assessment and final report. As proposed, the project would be completed by September 30, 1997.

Following Trustee Council action, the Restoration Work Force and the Restoration Office reviewed the DPD and detailed budget. The DPD was revised to clarify the responsibilities of the cooperating agencies and to recognize that Phase I would not be completed until December. Based on changes incorporated in the DPD, the detailed budget was revised. Since the cost of Phase II is contingent on the remediation plan being developed under Phase I, funding associated with the cleanup was excluded from the revised budget, with the understanding it would be prepared and revised at a later time.

Trustee Agencies

State of Alaska: Departments of Fish & Game, Law, and Environmental Conservation
United States: National Oceanic & Atmospheric Administration, Departments of Agriculture and Interior

The Executive Director approved the revised DPD and the revised detailed budget in July. Consistent with Trustee Council Procedures, funding associated with Fiscal Year 1996 was then disbursed to the agencies. In September, additional funding was disbursed for Fiscal Year 1997.

For the Department of Environmental Conservation, a total of \$289,400 was disbursed to cover the cost of the project in Fiscal Year 1996 and \$21,700 was disbursed to cover 1997 expenses. Due to delays in implementing the project, I understand that the department is interested in redistributing the Phase I funding between fiscal years.

Since the motion approved by the Trustee Council was subject to final review and approval by the Executive Director of the DPD and detailed budget, I would recommend that the department submit a request to the Executive Director to transfer authority between fiscal years. The request should include an accounting of actual expenditures incurred by the department for the period ending September 30, 1996, and a revised 1997 detailed budget. The revised 1997 detailed budget should incorporate actual expenses incurred during Fiscal Year 1997 and expenses anticipated to be incurred through completion of Phase I. I would also recommend a separate memorandum describing any changes to the DPD, especially how the delay will impact the schedule and the departments approach to ensuring that the project will be accomplished within budget and on time.

If this approach is acceptable to the department, it is imperative that a request be submitted as soon as possible, as changes to the 1996 Work Plan will impact the 1996 audit.

cc: Molly McCammon
Sandra Schubert
Ginny Fay

Exxon Valdez Oil Spill Trustee Council

645 G Street, Suite 401, Anchorage, AK 99501-3451 907/278-8012 fax: 907/276-7178



December 30, 1996

Joseph M. Leahy, Director
The Valdez Museum and Historical Archive Association, Inc.
P.O. Box 307
Valdez AK 99686

Dear Mr. Leahy:

You are cordially invited to participate in a workshop on archaeological resource restoration for the region affected by the 1989 *Exxon Valdez* oil spill. The workshop will begin at 8:30 a.m. on January 22, 1997, and continue until about 3:00 p.m. It will take place in the 4th Floor Conference Room of the Restoration Office at 645 G St., Anchorage.

I have enclosed a draft agenda for the workshop and a list of invited participants. The focus of the workshop is the final report for Project 96154, *Comprehensive Community Plan for the Restoration of Archaeological Resources in Prince William Sound and Lower Cook Inlet*. A copy of this report was sent to you a few weeks ago. This report, which was prepared by Dr. Lora Johnson under a contract with the Trustee Council, presents eight options for restoring archaeological resources injured by the *Exxon Valdez* oil spill. The options consist of various ways to store and display artifacts recovered during the cleanup, damage assessment or restoration phase of the spill. The report also addresses site stewardship programs and training.

At the workshop, representatives from village councils in the study area, members of the Trustee Council's Public Advisory Group, and representatives of local museums will discuss the various options and provide suggestions to the Restoration Office on how to proceed. One issue is whether the Trustee Council should invite proposals for FY 98 and, if so, for what purpose and under what conditions.

If you are able to participate in this workshop, please notify Cherri Womac at 278-8012. If you are unable to attend the workshop in person, but would like to participate by telephone, please contact Cherri to make arrangements. Thank you.

Sincerely,

Molly McOammon
Executive Director

Enclosure

Exxon Valdez Oil Spill Trustee Council

645 G Street, Suite 401, Anchorage, AK 99501-3451 907/278-8012 fax: 907/276-7178

December 30, 1996

Cathy Sherman, Director
Cordova Historical Museum
P.O. Box 391
Cordova AK 99574



Dear Ms. Sherman:

You are cordially invited to participate in a workshop on archaeological resource restoration for the region affected by the 1989 *Exxon Valdez* oil spill. The workshop will begin at 8:30 a.m. on January 22, 1997, and continue until about 3:00 p.m. It will take place in the 4th Floor Conference Room of the Restoration Office at 645 G St., Anchorage.

I have enclosed a draft agenda for the workshop and a list of invited participants. The focus of the workshop is the final report for Project 96154, *Comprehensive Community Plan for the Restoration of Archaeological Resources in Prince William Sound and Lower Cook Inlet*. A copy of this report was sent to you a few weeks ago. This report, which was prepared by Dr. Lora Johnson under a contract with the Trustee Council, presents eight options for restoring archaeological resources injured by the *Exxon Valdez* oil spill. The options consist of various ways to store and display artifacts recovered during the cleanup, damage assessment or restoration phase of the spill. The report also addresses site stewardship programs and training.

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If you are able to participate in this workshop, please notify Cherri Womac at 278-8012. If you are unable to attend the workshop in person, but would like to participate by telephone, please contact Cherri to make arrangements. Thank you.

Sincerely,

Molly McCammon
Executive Director

Enclosure

Exxon Valdez Oil Spill Trustee Council

645 G Street, Suite 401, Anchorage, AK 99501-3451 907/278-8012 fax: 907/276-7178



December 30, 1996

Lee Poleske, President
Seward Museum
P.O. Box 55
Seward AK 99664-0055

Dear Mr. Poleske:

You are cordially invited to participate in a workshop on archaeological resource restoration for the region affected by the 1989 *Exxon Valdez* oil spill. The workshop will begin at 8:30 a.m. on January 22, 1997, and continue until about 3:00 p.m. It will take place in the 4th Floor Conference Room of the Restoration Office at 645 G St., Anchorage.

I have enclosed a draft agenda for the workshop and a list of invited participants. The focus of the workshop is the final report for Project 96154, *Comprehensive Community Plan for the Restoration of Archaeological Resources in Prince William Sound and Lower Cook Inlet*. A copy of this report was sent to you a few weeks ago. This report, which was prepared by Dr. Lora Johnson under a contract with the Trustee Council, presents eight options for restoring archaeological resources injured by the *Exxon Valdez* oil spill. The options consist of various ways to store and display artifacts recovered during the cleanup, damage assessment or restoration phase of the spill. The report also addresses site stewardship programs and training.

At the workshop, representatives from village councils in the study area, members of the Trustee Council's Public Advisory Group, and representatives of local museums will discuss the various options and provide suggestions to the Restoration Office on how to proceed. One issue is whether the Trustee Council should invite proposals for FY 98 and, if so, for what purpose and under what conditions.

If you are able to participate in this workshop, please notify Cherri Womac at 278-8012. If you are unable to attend the workshop in person, but would like to participate by telephone, please contact Cherri to make arrangements. Thank you.

Sincerely,

A handwritten signature in cursive script that reads "Molly McCammon".

Molly McCammon
Executive Director

Enclosure

Exxon Valdez Oil Spill Trustee Council

645 G Street, Suite 401, Anchorage, AK 99501-3451 907/278-8012 fax: 907/276-7178



December 30, 1996

Betsy Webb, Curator
Pratt Museum
3779 Bartlett St.
Homer AK 99603

Dear Ms. Webb:

You are cordially invited to participate in a workshop on archaeological resource restoration for the region affected by the 1989 *Exxon Valdez* oil spill. The workshop will begin at 8:30 a.m. on January 22, 1997, and continue until about 3:00 p.m. It will take place in the 4th Floor Conference Room of the Restoration Office at 645 G St., Anchorage.

I have enclosed a draft agenda for the workshop and a list of invited participants. The focus of the workshop is the final report for Project 96154, *Comprehensive Community Plan for the Restoration of Archaeological Resources in Prince William Sound and Lower Cook Inlet*. A copy of this report was sent to you a few weeks ago. This report, which was prepared by Dr. Lora Johnson under a contract with the Trustee Council, presents eight options for restoring archaeological resources injured by the *Exxon Valdez* oil spill. The options consist of various ways to store and display artifacts recovered during the cleanup, damage assessment or restoration phase of the spill. The report also addresses site stewardship programs and training.

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If you are able to participate in this workshop, please notify Cherri Womac at 278-8012. If you are unable to attend the workshop in person, but would like to participate by telephone, please contact Cherri to make arrangements. Thank you.

Sincerely,

Molly McCammon
Executive Director

Enclosure

Exxon Valdez Oil Spill Trustee Council

645 G Street, Suite 401, Anchorage, AK 99501-3451 907/278-8012 fax: 907/276-7178



December 30, 1996

Henry Kroll, Director
Seldovia Historical Museum
P.O. Box 181
Seldovia AK 99663

Dear Mr. Kroll:

You are cordially invited to participate in a workshop on archaeological resource restoration for the region affected by the 1989 *Exxon Valdez* oil spill. The workshop will begin at 8:30 a.m. on January 22, 1997, and continue until about 3:00 p.m. It will take place in the 4th Floor Conference Room of the Restoration Office at 645 G St., Anchorage.

I have enclosed a draft agenda for the workshop and a list of invited participants. The focus of the workshop is the final report for Project 96154, *Comprehensive Community Plan for the Restoration of Archaeological Resources in Prince William Sound and Lower Cook Inlet*. A copy of this report was sent to you a few weeks ago. This report, which was prepared by Dr. Lora Johnson under a contract with the Trustee Council, presents eight options for restoring archaeological resources injured by the *Exxon Valdez* oil spill. The options consist of various ways to store and display artifacts recovered during the cleanup, damage assessment or restoration phase of the spill. The report also addresses site stewardship programs and training.

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If you are able to participate in this workshop, please notify Cherri Womac at 278-8012. If you are unable to attend the workshop in person, but would like to participate by telephone, please contact Cherri to make arrangements. Thank you.

Sincerely,

Molly McCammon
Executive Director

Enclosure

Exxon Valdez Oil Spill Trustee Council

645 G Street, Suite 401, Anchorage, AK 99501-3451 907/278-8012 fax: 907/276-7178



AGENDA

Archaeological Restoration Planning Workshop
Fourth Floor Conference Room ♦ 645 G. Street ♦ Anchorage
Wednesday, January 22, 1997
8:30 a.m. - 3:00 p.m.

Purpose: To discuss various options for restoring spill-injured archaeological resources in Prince William Sound and lower Cook Inlet and provide suggestions to the Restoration Office on how to proceed. One issue is whether the Trustee Council should invite proposals for FY 98 and, if so, for what purpose and under what conditions.

8:30 - 8:40 **Introduction** ♦ Molly McCammon, Executive Director, Trustee Council

8:40 - 9:10 **Presentation of the final report** for Project 96154, *Comprehensive Community Plan for the Restoration of Archaeological Resources in Prince William Sound and Lower Cook Inlet* ♦ Lora Johnson, Principal Investigator, Chugachmiut

9:10 - 9:50 **Questions**

9:50-10:00 **Break**

10:00-noon **Presentations by Resource Specialists**

Michael Lewis, University of Alaska Museum

Rick Knecht, Former Director, Alutiiq Cultural Center (by telephone)

30-minute video: *Land of the Nunamiut* 1986 and *The Simon Paneak Museum Today* 1996

Grant Spearman, The Simon Paneak Memorial Museum, Anaktuvuk Pass (telephone, if available)

Alice Crow, Alaska Native Heritage Center

Aron Crowell, Arctic Studies Center

Doug Reger, ADNR, Site Stewardship Program

Noon-1:00 **Lunch**

1:00 - 2:45 **Discussion**

2:45 - 3:00 **Next Steps** ♦ Veronica Christman

DRAFT

12/30/96

Federal Trustees

U.S. Department of Interior
U.S. Department of Agriculture
National Oceanic and Atmospheric Administration

State Trustees

Alaska Department of Fish and Game
Alaska Department of Environmental Conservation
Alaska Department of Law

Invited Participants

Community Involvement Facilitators

Virginia Aleck, Chignik Lake Village Council
Molly Burton, Qutekcak Native Tribe, Seward
Hank Eaton, Kodiak Tribal Council
Lillian Elvsaas, Seldovia Native Tribe
Carl Calugan, Valdez Native Tribe
Bob Henrichs, Native Village of Eyak Tribal Council, Cordova
Gary Komkoff, Tatitlek Village IRA Council and Tatitlek Museum
Don Komkoff, Chenega Bay IRA Council
Walter Meganack, Jr., Port Graham Village Council
Nancy Yeaton, Nanwalek IRA Council
Martha Vlasoff, Community Involvement Coordinator

Public Advisory Group

Mary McBurney, Anchorage (Aquaculture)
Torie Baker, Cordova (Commercial Fishing)
Eleanore Huffines, Palmer (Commercial Tourism)
Chip Dennerlein, Anchorage (Conservation)
Pam Brodie, Homer (Environmental)
Howard Valley, Kodiak (Forest Products)
Dave Cobb, Valdez (Local Government)
Chuck Totemoff, Anchorage (Native Landowner)
Stacey Studebaker, Kodiak (Recreation User)
Rupert Andrews, Juneau (Sport Hunting/Fishing)
Nancy Yeaton, Nanwalek (Subsistence)
Chuck Meacham, Juneau (Science/Academic)
Chris Beck, Anchorage (Public-at-Large)
Sheri Bureta, Anchorage (Public-at-Large)
Jim King, Juneau (Public-at-Large)
Vern McCorkle, Anchorage (Public-at-Large)
Brenda Schwantes, Kodiak (Public-at-Large)

Local Museums

Joe Leahy, Valdez Museum
Cathy Sherman, Cordova Museum
Lee Poleske, Seward Museum
Betsy Webb, Pratt Museum
Henry Kroll, Seldovia Historical Museum

Presenters

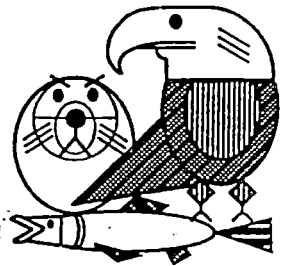
Michael Lewis, University of Alaska Museum
Rick Knecht, Former Director, Alutiiq Cultural Center
Grant Spearman, The Simon Paneak Memorial Museum, Anaktuvuk Pass
Alice Crow, Alaska Native Heritage Center
Aron Crowell, Arctic Studies Center
Doug Reger, ADNR, Site Stewardship Program

Exxon Valdez Oil Spill Trustee Council

Restoration Office

645 G Street, Suite 401, Anchorage, Alaska 99501-3451

Phone: (907) 278-8012 Fax: (907) 276-7178



MEMORANDUM

To: Selected Principal Investigators (see distribution)
"Core" Peer Reviewers

From: Robert Spies, Chief Scientist *RBS/sbs*

Date: December 27, 1996

Subject: Synthesis book for the 10th Anniversary Symposium

Several of us, including Stan Senner, Jeep Rice and Bruce Wright, have been discussing the appropriate vehicles to synthesize and summarize the results of the Restoration Program in relation to the 10th anniversary of the oil spill in March 1999. We have proposed to the Executive Director, Molly McCammon, that a book be written to achieve this goal and that it be ready for distribution at the proposed 10th anniversary of the spill in March 1999. This synthesis publication would be the primary publication of the 10-year symposium. We expect tremendous interest in this topic at the time of the anniversary, and the release of a book at that time will garnish wide attention. We anticipate about 50 presentations by various PIs during the symposium, with abstracts available at the symposium, but we will encourage formal publication of these presentations in open journals rather than yet another proceedings volume.

We have developed the outline presented below as a preliminary concept for the content and organization of the synthesis volume. This treatment would follow up on spill effects and recovery of resources since the 1993 symposium, but its major focus would be on new information gained about natural resources, particularly in relation to the dynamics of the ecosystem and as a basis for improved management. Our concept is that there would be only a small number of major chapters.

Neither the Executive Director nor the Trustee Council presently are committed to the publication of this synthesis volume, but our goal is to present them with a proposal for consideration as early as possible in the new year. We therefore invite your comments on this outline. Please send them to Bruce Wright by January 15, 1997 (<bruce.wright@noaa.gov>; hard copy to 11305 Glacier Highway, Juneau, AK 99801). Time is rather short if we are to implement this project. We plan to identify and invite potential authors for each chapter early in the new year, before the 1997 Restoration Workshop. In all likelihood, manuscripts for initial peer review would be due by November 30, 1997.

We would intend that this book be of the highest quality in content, extent of peer review, organization and appearance. We are investigating several publishing options to determine the costs. I hope that this effort is of interest to you and we look forward to receiving your comments. Thank you.

Trustee Agencies

State of Alaska: Departments of Fish & Game, Law, and Environmental Conservation

United States: National Oceanic and Atmospheric Administration, Departments of Agriculture and Interior

encl: (1)

Distr:

Jim Bodkin
Evelyn Brown
Mike Castellini
Ted Cooney
Tom Dean
David Duffy
Dave Eslinger
Kathy Frost
Chris Haney
Leslie Holland-Bartels
David Irons
Richard Kocan
Gary Marty
Peter McRoy
Chris Mooers
Phil Mundy
Brenda Norcross
A.J. Paul
Pete Peterson
John Piatt
Stanley Rice
Dan Roby
George Rose
Dana Schmidt
Jeff Short
Mike Stekoll
Ken Tarbox
Gary Thomas
Shari Vaughan
Alex Wertheimer
Mark Willette
Bruce Wright

cc: Molly McCammon, Executive Director
Restoration Liaisons

Preliminary Outline for 1999 Symposium Synthesis Volume

I. Introduction

- A. Broad characterization of the spill area ecosystem with emphasis on ecosystem change.
- B. General characterization of spill injury and recovery, building on what has been learned since publication of the 1993 symposium proceedings (Rice et al. 1996).
- C. Basis for the restoration program--kinds of activities and rationale.
- D. Major contributions of post-spill scientific work to understanding the ecology, resources and their management.

Each of the following sections would have brief sections (e.g., 5-10% of overall length) that deal with the spill injury and recovery, but the focus would be on new information, its integration with what was previously known, and the implications for management.

II. Oil remaining in the environment and biological exposures.

III. The physical and biological oceanography of PWS and the northern Gulf of Alaska--focused on the processes important to plankton production; currents, development of surface mixed layer, water exchange, bloom development, zooplankton overwintering, etc.

IV. Factors controlling pink salmon populations in PWS and implications for management--production, predation, hatcheries, genetics, other new information for management, recovery of embryo mortality.

V. Factors controlling herring populations in PWS and implications for management--production, predation, role of disease, population recovery.

VI. Factors affecting sockeye salmon populations--sockeye salmon population cycling in the Kenai River system, other instances of "overescapement" in the spill area and their recovery.

VII. Seabird ecology in PWS and the northern Gulf of Alaska and forage fish populations--relationships between forage fish populations and ecosystem change as they affect seabird ecology, seabird energetics and reproduction, etc. Focus on major species, injured species, or those of greatest ecological importance.

VIII. Marine mammals--new information on the biology of harbor seals, sea otters and killer whales: population trends, feeding ecology, genetics, movement, etc.

IX. Coastal zone ecology--intertidal and subtidal ecology of the spill area; dynamic processes structuring the intertidal; relationships of intertidal ecology to currents, shelter, etc. This chapter

should include ecological relationships of foragers to the intertidal and nearshore subtidal resources.

X. Ecological models of the spill-area ecosystem--?? Should we have an overarching view of the ecosystem. Availability of authors?

XI. The future of ecosystem investigations in the spill area--suggested directions, remaining challenges, lessons learned from the process.

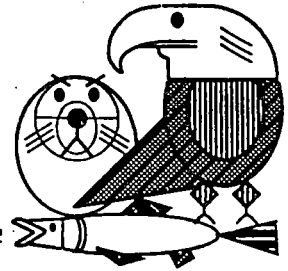
XII. Bibliography of EVOSTC publications.

Exxon Valdez Oil Spill Trustee Council

Restoration Office

645 G Street, Suite 401, Anchorage, Alaska 99501-3451

Phone: (907) 278-8012 Fax: (907) 276-7178



December 27, 1996

Mr. Mark Bosnak
1515 - 20 Ave. No.
Lethbridge T1H 4W4
Alberta, Canada

Dear Mr. Bosnak:

Thank you for your letter dated November 29, 1996 and inquiry about the *Exxon Valdez* oil spill. You have raised a number of questions about the cleanup and response to the oil spill as well as how it effects and the restoration program that followed. I am not able to reply to your questions individually, but I have enclosed three documents that should be very helpful:

- (1) "The *Exxon Valdez* Oil Spill, Final Report, State of Alaska Response" from the Alaska Department of Environmental Conservation. This will address response and cleanup issues.
- (2) The "1996 Status Report" from the *Exxon Valdez* Oil Spill Trustee Council. This will address how restoration funds (i.e., the \$900 million) are being spent.
- (3) "Update on Injured Resources and Services," which supplements the final (November 1994) *Exxon Valdez* Oil Spill Restoration Plan. This will provide our current understanding of the status of the injured resources and services.

I hope that these documents are helpful in completing your project. Please let us know if you have additional questions.

Sincerely,

A handwritten signature in cursive script that reads "Molly McCammon".

Molly McCammon
Executive Director

encl: (3)

Trustee Agencies

State of Alaska: Departments of Fish & Game, Law, and Environmental Conservation
United States: National Oceanic and Atmospheric Administration, Departments of Agriculture and Interior

Handwritten:
Draft response

Mark Bosnak
1515 - 20 Ave. No.
Lethbridge, Alta.
T1H 4W4

November 29, 1996

Exxon Valdez Oil Spill
Trustee Council
645 G Street
Anchorage, Alaska 99501

RECEIVED
DEC 16 1996

EXXON VALDEZ OIL SPILL
TRUSTEE COUNCIL

To whom it may concern:

Re: Exxon Valdez Oil Spill

I am a student currently attending Lethbridge Community College (LCC) in Alberta, Canada. I was recently assigned a project which involved writing a letter, expressing my support or concern, on an environmental issue. I have chosen to write you because I feel the need to obtain a clearer understanding of the Exxon Valdez Oil Spill, and observe any changes or goals, in the clean up, that have taken place.

I was reading the draft: "Exxon Valdez Oil Spill Restoration Plan, November 1993", which prompted me to write this letter. This is an important issue because it has played a major role in the functioning of the Alaskan ecosystem. The oil spill contaminated thousands of miles of Alaska's coastline and killed various amounts of birds, mammals, and fish. The tanker spilled eleven million gallons of North Slope crude oil, the largest tanker spill in United States history. Exxon agreed to pay the United States and the state of Alaska \$900 million over ten years to restore the resources injured by the spill.

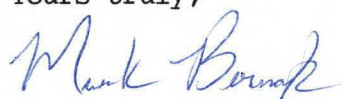
Due to the magnitude of the spill and the effects it had, and will continue to have, questions arise when it comes to the clean up and what can be done to prevent something so dangerous from happening again. As well \$900 million is a lot of money, how much money was spent on the clean up and was the money used in an appropriate and effective manner?.

Personally I feel that Exxon functioned very well with the circumstances they were faced with. Your efforts to contain the vast amounts of oil proved vital in saving the habitat and wildlife. The particular concern for wildlife that had been injured by the oil, proved crucial in saving many lives. All those involved with the clean up should be very proud with the work they accomplished.

It has now been seven years since the clean up. I was wondering if all the clean up goals that had been arranged were reached and was the \$900 million enough money for the spill clean up?. Are there any concerns in the methods you used that you may have changed looking back at the situation today and might it have affected the outcome?.

In closing I would just like to thank you for taking the time to read my letter. Also I would like to commend Exxon on their efforts in the clean up. If possible, I would be delighted to receive some feedback from you as well as your feelings towards the spill.

Yours truly,

A handwritten signature in blue ink, appearing to read "Mark Bosnak". The signature is written in a cursive, flowing style.

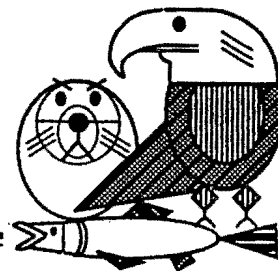
Mark Bosnak

Exxon Valdez Oil Spill Trustee Council

Restoration Office

645 G Street, Suite 401, Anchorage, Alaska 99501-3451

Phone: (907) 278-8012 Fax: (907) 276-7178



MEMORANDUM

To: Project Leaders and Principal Investigators
Restoration Liaisons and Work Force

From: Molly McCammon, Executive Director *MM/sfs*

Date: December 26, 1996

Subject: Final Reminders about the 1997 Restoration Workshop

Please find enclosed a near-final version of the agenda for the 1997 Restoration Workshop, which will be held January 23-25 at the Hotel Captain Cook. Here are a few reminders:

★ Abstracts for projects funded in FY 1996 are now past due to Stan Senner, and not all abstracts have been received. **If you were funded in FY 1996, even for close-out work, please get your abstract to Stan (stans@oilspill.state.ak.us) immediately.** In a separate memorandum, Stan has provided a list of late abstracts to the agency liaisons.

★ If you are planning to present a poster or use a computer display, please make sure that Stan knows immediately. Plan on having your poster or computer display up by 10:00 a.m. on the first morning of the workshop (23rd). Ideally, we invite all posters and computer displays to remain up through the end of the public education session on Saturday afternoon. Poster guidelines were circulated earlier, but if you have questions about details, contact Bill Hauser (billh@fishgame.state.ak.us; 907/267-2172).

★ Some break-out rooms will be available during the conference. If you have need for such a space, please let Stan know that too.

★ **All participants should preregister by calling Keri Hile at the Restoration Office (907/278-8012) by January 7. We need to make final commitments for food and other services, so we must have this information.**

★ The deadline for room reservations at the reduced conference rate at the Hotel Captain Cook is January 7. Call 1-800-478-3100 to make reservations (from outside of Alaska, 1-800-843-1950). Ask for Group No. 52519.

Trustee Agencies

State of Alaska: Departments of Fish & Game, Law, and Environmental Conservation
United States: National Oceanic and Atmospheric Administration, Departments of Agriculture and Interior

Page 2
Final Reminder
December 26, 1996

Copies of the abstract book will be mailed to all preregistered participants by about January 15. If you have any questions about the agenda, please contact Stan.

encl: (1)

1997 Restoration Workshop
Draft Agenda (12/23/96)¹

DRAFT

Day 1, Thursday, January 23

8:00 am	Registration
8:30	Introduction and Annual Report on EVOS Program, Announcements <i>Molly McCammon, Executive Director</i>
9:00	Trustee Perspective <i>Dr. Phil Janik (USFS), Federal Trustee</i>
9:15	Introduction to Ecosystem Projects and Ecological Syntheses <i>Dr. Robert Spies, Chief Scientist</i>
9:30	Break
10:00	Sound Ecosystem Assessment (SEA, /320) <i>Dr. Ted Cooney and others (to be named)</i>
12:00 Noon	Buffet Lunch (in hotel)
1:15 pm	Alaska Predator Ecosystem Experiment (APEX, /163) <i>Dr. David Duffy, Paul Anderson, Dr. Lew Haldorson, David Roseneau, Dr. John Piatt, and Dr. Dan Roby</i>
3:15	Break
3:45	Herring Reproductive Impairment, 96074, <i>Mark Carls</i> Herring Disease, 96162, <i>Dr. Richard Kocan</i> Cutthroat Trout/Dolly Varden Life History Forms, 96145, <i>Dr. Gordon Reeves</i> PWS Youth Area Watch, 96210, <i>Mel Henning with Evan Evanson, Brian Collier, Jonah Swiderski, and Iris O'Brien</i>
5:00	Adjourn plenary session

¹Three break-out rooms will be available for side meetings on Thursday and Friday. One of these rooms, Adventure, will be dedicated to uses by the Community Facilitators, including for meetings with individual PIs to exchange information about subsistence resources and to discuss needs for traditional ecological knowledge.

DRAFT

5:30-7:30 Reception and Poster Session

Day 2, Friday, January 24

- 8:00 am Killer Whale Contaminants & Genetics, 96012, *Craig Matkin*
Port Dick Spawning Channel, 96139A2, *Nick Dudiak and Mark Dickson*
- 8:40 Nearshore Vertebrate Predator Project (NVP, /025)
Dr. Leslie Holland-Bartels, Dr. Terry Bowyer, Dr. Tom Dean,
Dr. David McGuire, Dr. Brenda Ballachey, Dan Esler, and Jim Bodkin
- 10:40 Break
- 11:00 Keynote address: Natural and Social Scales in Ecosystem Management
Dr. Kai Lee, Center for Environmental Studies, Williams College
- 12:00 Noon Buffet Lunch (in hotel)
- 1:30 Panel: Perspectives on Ecosystem Projects and Research Needed by
Resource Managers
Dr. Jim Balsiger (NMFS), Dr. James Brady (ADFG), John Martin
(USFWS), USFS (to be named)
- 2:30 Panel: Building and Applying Ecological Models
Dr. Andy Gunther (moderator), Dr. Stuart Pimm, and Dr. Daniel Pauly
- 3:30 New Court Orders on Sample Retention and Destruction
Craig Tillery (ADL) and Gina Belt (DOJ)
- 3:50 Adjourn plenary session
Main Ballroom must be cleared by 4 pm (conflicting event)
- 7:00-9:00 Informal Brainstorming Session: Is Another Ecosystem Shift Underway?
Optional session in the Voyager room.

Day 3, Saturday, January 25

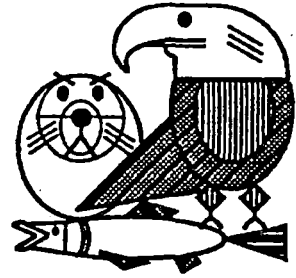
- 8:30 am Marine Bird Boat Surveys, 96159, *Bev Agler & Steve Kendall*
Status & Ecology of Kittlitz's Murrelet, 96142, *Dr. Robert Day*
Harlequin Duck Genetics, 96161, *Buddy Goatcher & Dr. Kim Scribner*
Harbor Seal Fatty Acids, 96064, *Dr. Kathy Frost*
- 9:50 Break

- 10:20 Chugach Region Clam Restoration, 96131, *Patty Brown-Schwalenberg and Jeff Hetrick*
Archaeological Site Stewardship, 96149, *Doug Reger*
- 11:00 Reactions from Peer Reviewers
Drs. Robert Spies, Pete Peterson, Chris Haney, George Rose, Polly Wheeler, Andy Gunther, and Phil Mundy
- 12:00 Noon Closing Remarks (for the technical workshop)
Molly McCammon, Executive Director
- 12:15 Lunch (on your own)
- 2:00 Welcome to Special Public Educational Session
Craig Tillery, State of Alaska Trustee
- 2:10 Overview of Restoration Program and Update on Injury & Recovery
Molly McCammon, Executive Director
Stan Senner, Science Coordinator
- 2:30 An Ecosystem Approach to Restoration
Dr. Robert Spies, Chief Scientist
- 2:40 Scientists at Work
Killer whales: Counting - Craig Matkin, 96012
Harbor seals: Biosampling - Kate Wynne, 96244
Clams: Hatchery Production - Carmen Young, 96131
Sockeye: Genetic Sampling - Dr. Lisa Seeb, 96255
Marbled Murrelets: Climbing Trees - Kathy Kuletz, 96031
Harlequin Ducks: Kayak Roundup - Dan Esler, 96025
- 3:30 Alaska SeaLife Center
Dr. John Hendricks, Executive Director
- 3:40 For More Information--How to Get Involved
Molly McCammon, Executive Director
- 3:45 Panel: Questions and Answers
Molly McCammon, Dr. Robert Spies, Stan Senner, and other presenters
- 4:15 Adjourn

Exxon Valdez Oil Spill Trustee Council

Restoration Office

645 G Street, Suite 401, Anchorage, AK 99501-3451
907-278-8012 Fax: 907-276-7178



MEMORANDUM

TO: Molly McCammon
Traci Cramer
FROM: Traci Cramer
Administrative Officer
DATE: December 26, 1996
RE: State Fiscal Year 1998 Proposed Budget

I have reviewed the State Fiscal Year 1998 budget as proposed in the December 15, 1996 release. As summarized below, the total requested for State Fiscal Year 1998 is \$13,641.1.

Current Year Authorized (CH117/SLA96)	\$14,604.4
98' Base Adjustment (salaries/benefits)	73.4
ADF&G Decrement	-2,380.7
ADNR Increment	<u>1,344.0</u>
1998 Proposed Budget	\$13,641.1

The proposed budgets submitted by the three state agencies that implement Trustee Council projects are inconsistent. The detail budget for the Department of Fish and Game assumes that the size and number of projects approved by the Trustee Council is declining. The budget proposed by the Department of Natural Resources implies that the restoration program is increasing. While the Department of Environmental Conservation requested continuation of current year funding. Since the Restoration Office is reflected as the primary contact on the majority of the budget detail, attached is a copy of each budget submission and other miscellaneous documents. Also included in this memorandum is a brief summary of each of the submissions.

Consistent with the current year, funding for the Department of Fish and Game is contained in four separate appropriations. To address insufficient authority in the Subsistence Division, the Division of Habitat and Restoration transferred \$238.3. This

Trustee Agencies

State of Alaska: Departments of Fish & Game, Law, and Environmental Conservation
United States: National Oceanic & Atmospheric Administration, Departments of Agriculture and Interior

transfer provides sufficient authority for the Division of Subsistence to implement the anticipated 1998 Work Plan.

To address new projects, the Division of Habitat and Restoration included in the budget \$1,000.0 for competitive grants. While not identified separately, it also appears that sufficient authority was requested in the other appropriations (ie., CFMD, Wildlife Conservation, and Subsistence) for new projects.

The total authorized for the Department of Natural Resources for State Fiscal Year 1997 is \$1,973.8. The department has requested \$3,323.7 for the upcoming state fiscal year. The proposed budget appears to be based on continuation of the 1997 authorized level, plus an adjustment for increased salaries and benefits and an increment for new projects. As submitted, the proposal does not recognize that the restoration program is decreasing. In addition, the proposal continues to request authority in the operating budget for projects which could be defined as capital.

The justification for the increase reflects that additional authority is required for continuation of the 1997 Work Plan and implementation of new projects. The projects identified include project management, synthesis of scientific findings, Valdez Duck Flats and comprehensive archaeology planning. In reviewing the proposed budget, it appears that the department did not shift excess authority between projects to address anticipated increases. It also appears that the department continues to request operating authority for capital related activities associated with both the Kenai Enhancement and Valdez Duck Flats projects.

The Department of Environmental Conservation requested continuation of the 1997 authorized budget. While project forms were not submitted, the \$132.3 represents funding to support two full-time positions. In addition, all funding allocated to travel, contractual and supplies was transferred to personnel services to support the positions. To address continuation of the 1997 Work Plan, the front section of the budget includes language to extend the lapse date associated with the Chenega Oiling and Sound Waste Management revised program.

From an accounting standpoint, continuation of the revised program is completely logical. However, last session a commitment was made to include authority to receive and expend *Exxon Valdez* settlement funding in the operating budget. While it could be argued that the front section is responsive to the commitment, it could also be argued that the department continues to reflect a portion of the funding off-budget. In addition, the front section extends the lapse date of the revised program to June 30, 1998. In the event the lapse date extension is not approved or the date is changed to September 30, 1997, it is conceivable that the department will have insufficient authority to implement the 1998 Work Plan.

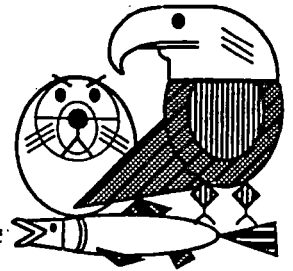
attachment

Exxon Valdez Oil Spill Trustee Council

Restoration Office

645 G Street, Suite 401, Anchorage, Alaska 99501-3451

Phone: (907) 278-8012 Fax: (907) 276-7178



MEMORANDUM

To: Restoration Liaisons and Work Force

From: Stan Senner *Stan*
Science Coordinator

Date: December 24, 1996

Subject: Late Abstracts for 1997 Restoration Workshop

Since this is Christmas Eve, this will sound a bit like Scrooge, but here is a list of FY 1996 projects for which I have not received abstracts for the 1997 Restoration Workshop. We are trying to get abstracts from all funded work, even for those that were only being closed out in FY 1996. The abstracts will be sent to the printer on January 7, so Monday morning, January 6, is the drop dead date for submitting an abstract to be included in the book of abstracts.

Please look over this list. Where your agency is listed as the lead, please help us by contacting the project leaders or principal investigators and encourage them to submit an abstract to me immediately, preferably by E-mail (stans@oilspill.state.ak.us). If anyone needs a copy of the abstract guidelines, ask them to contact me.

Thank you for your help.

encl: (1)

cc: Molly McCammon
Sandra Schubert

Trustee Agencies

State of Alaska: Departments of Fish & Game, Law, and Environmental Conservation

United States: National Oceanic and Atmospheric Administration, Departments of Agriculture and Interior

FY 1996 Project Abstracts Not Received
(as of noon, 12/24/96)

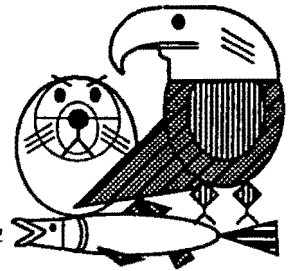
<u>Number</u>	<u>Title</u>	<u>Investigator</u>	<u>Lead Agency</u>
96007B	Site Specific Archaeological Restoration	Yarborough	USFS
96009D	Survey of Octopuses in Intertidal Habitats	Scheel	USFS
96027	Kodiak Archipelago Shoreline Assessment	Munson	ADEC
96048BAA	Historical Analysis of Sockeye Salmon Growth	Ruggerone	NOAA
96086	Herring Bay Monitoring and Restoration Studies	Highsmith	ADFG
96106	Subtidal Monitoring: Eelgrass Communities	Jewett	ADFG
96115	Sound Waste Management Plan	Winchester	ADEC
96127	Tatitlek Coho Salmon Release	Kompkoff	ADFG
96131	Chugach Clam Restoration	Brown	ADFG
96139C1	Montague Riparian Rehabilitation Monitoring	Hodges	USFS
96154	Comprehensive Archaeological Plan	Johnson	USFS
96163D	Distribution of Forage Fish as Indicated by Puffins	Piatt	DOI
96163K	Using Predatory Fish to Sample Forage Fish	Roseneau	DOI
96186	Coded Write Tag Recoveries from Pink Salmon	Joyce	ADFG
96191B	Injury to Salmon Eggs and Pre-emergent Fry	Rice	NOAA
96210	PWS Youth Area Watch	Henning	ADFG
96220	Eastern PWS Wildstock Salmon Habitat	Schmid	USFS
96222	Chenega Bay Salmon - Anderson Creek	Holbrook	USFS
96225	Port Graham Pink Salmon Subsistence	Moore	ADFG
96256A	Columbia Lake Sockeye Salmon Stocking	Gillikin	USFS
96272	Chenega Chinook Release Program	PWSAC	ADFG
96291	Chenega-area Shoreline Residual Oiling	Munson	ADEC
96320J	Information Systems and Model Development	Patrick	NOAA
96320K	Experimental Fry Release	PWSAC	ADFG
96320Q	Avian Predation on Herring Spawn	Bishop	USFS
96320R	SEA Trophicdynamic Modeling	Eslinger	ADFG
96320Y	Variation in Local Predation Rates	PWSSC	ADFG

Exxon Valdez Oil Spill Trustee Council

Restoration Office

645 G Street, Suite 401, Anchorage, Alaska 99501-3451

Phone: (907) 278-8012 Fax: (907) 276-7178



MEMORANDUM

To: Doug Reger, ADNR
Linda Yarborough, USFS

From: Stan Senner, Science Coordinator *Stan*
Joe Hunt, Communications Director *JH*

Subject: Archaeological Account for the *Restoration Notebook* Series

Date: December 24, 1996

For almost a year now, the Restoration Office has been planning to produce a series of accounts on key resources and services injured by the *Exxon Valdez* oil spill. The first two accounts are on harbor seals (by Kathy Frost) and marbled murrelets (by Kathy Kuletz) and are enclosed for your information. Please see the attached list of planned accounts and **possible** authors.

The *Restoration Notebook* series, as we are calling it, is intended to pull together information on the injury and recovery status of key injured resources and services and what has been done in the way of restoration activities. This semi-technical series is aimed at educated lay readers. These accounts are not intended for citation as scientific publications, though they must be scientifically sound, based on project reports and the literature. The *Restoration Notebook* will appear in a loose-leaf format and be put out electronically on the OSPIC website. We expect that the accounts will be updated periodically (e.g., every other year?).

As per the attached list, we are eager to have your expert help with this project. Specifically, we invite you to help prepare the first draft of the archaeological account, secure photos and figures, and review subsequent drafts leading to the final product. We will supply the scientific review (with the Chief Scientist), editing and proof-reading, formatting, and polishing. We will do most of the work after the initial draft is prepared.

In terms of timing, we aim to get as many accounts moving as quickly as we can, but our goal is to have a draft of each account in hand by the end of February. We know that this is a busy time of year, but so is most of the rest of the year! Would you consider this request and let Stan know whether you can make a commitment to produce the requested draft, and, if so, when it might be done? We can be reached at the telephone and fax numbers on this letterhead or by e-mail (<stans@oilspill.state.ak.us> <joe@oilspill.state.ak.us>). If possible, please contact Stan about your participation no later than Wednesday, January 8.

Trustee Agencies

State of Alaska: Departments of Fish & Game, Law, and Environmental Conservation
United States: National Oceanic and Atmospheric Administration, Departments of Agriculture and Interior

Page 2
Reger/Yarborough
December 24, 1996

You may ask whether the Restoration Office is able to pay for the necessary staff time. We cannot, but it is our hope that as a long-time investigators in the EVOS restoration program you will appreciate the importance of summarizing this information in a way that is accessible to the general public and will be willing and eager to help. In addition, you should be aware that this project is a high priority of both the Trustee Council and the Public Advisory Group. If it simply is not possible to produce drafts in a reasonable time, let's discuss the alternatives.

The enclosed accounts by Kathy Frost and Kathy Kuletz can serve as style models. If you have questions about style, please call Joe. We also have enclosed a generic outline for the substance of the account. You will need to adapt this to your own resource, and, in the case of subsistence, it won't help much at all. If you have questions about substance, give Stan a call.

Thank you for considering this request. Again, please let Stan know whether and when you can help with this project.

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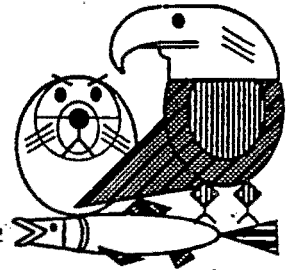
cc: Molly McCammon, Executive Director
Dr. Robert Spies, Chief Scientist
Ken Holbrook, USFS
Dave Gibbons, USFS
Veronica Christmas, ADNR

Exxon Valdez Oil Spill Trustee Council

Restoration Office

645 G Street, Suite 401, Anchorage, Alaska 99501-3451

Phone: (907) 278-8012 Fax: (907) 276-7178



MEMORANDUM

To: Evelyn Brown

From: Stan Senner, Science Coordinator *Stan*
Joe Hunt, Communications Director *JH*

Subject: Herring Account for the *Restoration Notebook* Series

Date: December 24, 1996

For almost a year now, the Restoration Office has been planning to produce a series of accounts on key resources and services injured by the *Exxon Valdez* oil spill. The first two accounts are on harbor seals (by Kathy Frost) and marbled murrelets (by Kathy Kuletz) and are enclosed for your information. Please see the attached list of planned accounts and possible authors.

The *Restoration Notebook* series, as we are calling it, is intended to pull together information on the injury and recovery status of key injured resources and services and what has been done in the way of restoration activities. This semi-technical series is aimed at educated lay readers. These accounts are not intended for citation as scientific publications, though they must be scientifically sound, based on project reports and the literature. The *Restoration Notebook* will appear in a loose-leaf format and be put out electronically on the OSPIC website. We expect that the accounts will be updated periodically (e.g., every other year?).

As per the attached list, we are eager to have your expert help with this project. Specifically, we invite you to help prepare the first draft of the Pacific herring account, secure photos and figures, and review subsequent drafts leading to the final product. We will supply the scientific review (with the Chief Scientist), editing and proof-reading, formatting, and polishing. We will do most of the work after the initial draft is prepared.

In terms of timing, we aim to get as many accounts moving as quickly as we can, but our goal is to have a draft of each account in hand by the end of February. We know that this is a busy time of year, but so is most of the rest of the year! Would you consider this request and let Stan know whether you can make a commitment to produce the requested draft, and, if so, when it might be done? We can be reached at the telephone and fax numbers on this letterhead or by E-mail (<stans@oilspill.state.ak.us> <joe@oilspill.state.ak.us>). If possible, please contact Stan about your participation no later than Wednesday, January 8.

Trustee Agencies

State of Alaska: Departments of Fish & Game, Law, and Environmental Conservation
United States: National Oceanic and Atmospheric Administration, Departments of Agriculture and Interior

Page 2
Evelyn Brown
December 24, 1996

You may ask whether the Restoration Office is able to pay for the necessary staff time. We cannot, but it is our hope that as a long-time investigator in the EVOS restoration program you will appreciate the importance of summarizing this information in a way that is accessible to the general public and will be willing and eager to help. In addition, you should be aware that this project is a high priority of both the Trustee Council and the Public Advisory Group. If it simply is not possible to produce drafts in a reasonable time, let's discuss the alternatives.

The enclosed accounts by Kathy Frost and Kathy Kuletz can serve as style models. If you have questions about style, please call Joe. We also have enclosed a generic outline for the substance of the account. You will need to adapt this to your own resource, and, in the case of subsistence, it won't help much at all. If you have questions about substance, give Stan a call.

Thank you for considering this request. Again, please let Stan know whether and when you can help with this project.

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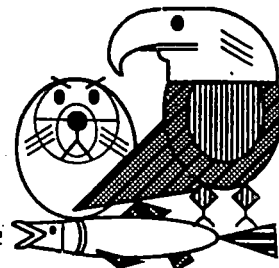
cc: Molly McCammon, Executive Director
Dr. Robert Spies, Chief Scientist

Exxon Valdez Oil Spill Trustee Council

Restoration Office

645 G Street, Suite 401, Anchorage, Alaska 99501-3451

Phone: (907) 278-8012 Fax: (907) 276-7178



MEMORANDUM

To: Terry Bowyer

From: Stan Senner, Science Coordinator *Stan*
Joe Hunt, Communications Director *JH*

Subject: River Otter Account for the *Restoration Notebook* Series

Date: December 24, 1996

For almost a year now, the Restoration Office has been planning to produce a series of accounts on key resources and services injured by the *Exxon Valdez* oil spill. The first two accounts are on harbor seals (by Kathy Frost) and marbled murrelets (by Kathy Kuletz) and are enclosed for your information. Please see the attached list of planned accounts and **possible** authors.

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As per the attached list, we are eager to have your expert help with this project. Specifically, we invite you to help prepare the first draft of the river otter account, secure photos and figures, and review subsequent drafts leading to the final product. We will supply the scientific review (with the Chief Scientist), editing and proof-reading, formatting, and polishing. We will do most of the work after the initial draft is prepared.

In terms of timing, we aim to get as many accounts moving as quickly as we can, but our goal is to have a draft of each account in hand by the end of February. We know that this is a busy time of year, but so is most of the rest of the year! Would you consider this request and let Stan know whether you can make a commitment to produce the requested draft, and, if so, when it might be done? We can be reached at the telephone and fax numbers on this letterhead or by e-mail (<stans@oilspill.state.ak.us> <joe@oilspill.state.ak.us>). If possible, please contact Stan about your participation no later than Wednesday, January 8.

Trustee Agencies

State of Alaska: Departments of Fish & Game, Law, and Environmental Conservation

United States: National Oceanic and Atmospheric Administration, Departments of Agriculture and Interior

Page 2
Bowyer
December 24, 1996

You may ask whether the Restoration Office is able to pay for the necessary staff time. We cannot, but it is our hope that as a long-time investigators in the EVOS restoration program you will appreciate the importance of summarizing this information in a way that is accessible to the general public and will be willing and eager to help. In addition, you should be aware that this project is a high priority of both the Trustee Council and the Public Advisory Group. If it simply is not possible to produce drafts in a reasonable time, let's discuss the alternatives.

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Thank you for considering this request. Again, please let Stan know whether and when you can help with this project.

encl: (4)

cc: Molly McCammon, Executive Director
Dr. Robert Spies, Chief Scientist

Exxon Valdez Oil Spill Trustee Council

645 G Street, Suite 401, Anchorage, AK 99501-3451 907/278-8012 fax: 907/276-7178



MEMORANDUM

TO: Bob Doll, Hotel Captain Cook

FROM: Eric F. Myers, ^{EFM}Director of Operations

DATE: December 23, 1996

SUBJ: Trustee Council Restoration Symposium January 22-25, 1997

Thank you for meeting with us last Wednesday to review the arrangements for the Trustee Council's restoration symposium to be held January 22 - 25, 1997. As we discussed, the "breakout" rooms will be as indicated below:

Adventure Room	Wednesday	2 pm - 10 pm	food services (?) *
	Thursday	8 am - 10 pm	theater style for 30
	Friday	8 am - 10 pm	theater style for 30
	Saturday	8 am - 5 pm	theater style for 30
Voyager Room	Thursday	8 am - 10 pm	theater style for 30
	Friday	8 am - 10 pm	theater style for 30
	Saturday	8 am - 5 pm	theater style for 30
Whitby Room	Thursday	8 am - 5 pm	theater style for 30
	Friday	8 am - 5 pm	theater style for 30
	Saturday	8 am - 5 pm	theater style for 30

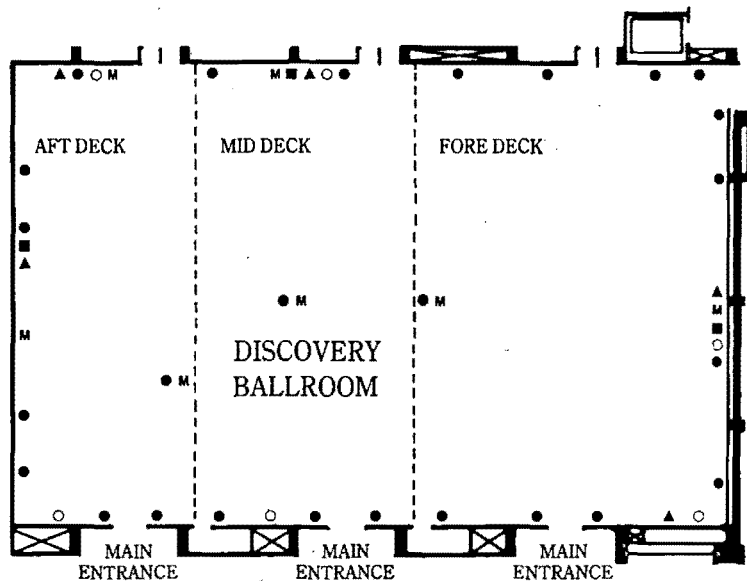
* Additional information regarding possible food services during use of the Adventure Room space will be forthcoming from Tami Yockey and Martha Vlasoff.

We are still working to refine our audio visual equipment needs and will be providing you with additional information as we get closer to the event. Thank you again for your continuing assistance.

cc: Tami Yockey
Stan Senner



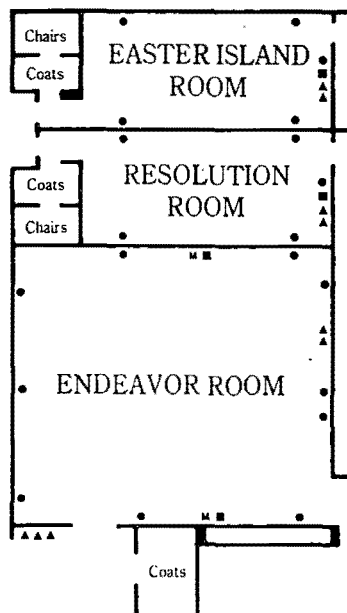
Lobby Level



	DISCOVERY BALLROOM	FORE DECK	MID DECK	AFT DECK
THEATRE	1250	500	350	200
ROUND TABLE	650	300	210	120
RECEPTION	1000	500	300	200
CLASSROOM	500	215	125	115
DINNER-DANCE/BAND	500	180	120	80
SQUARE FOOTAGE	9036	3975	2700	2370
WIDTH	120'6"	53'	36'	31'6"
LENGTH	75'	75'	75'	75'
CEILING HEIGHT	17'	17'	17'	17'
ENTRANCE WD	92"	92"	92"	92"
ENTRANCE HT.	104"	104"	104"	104"

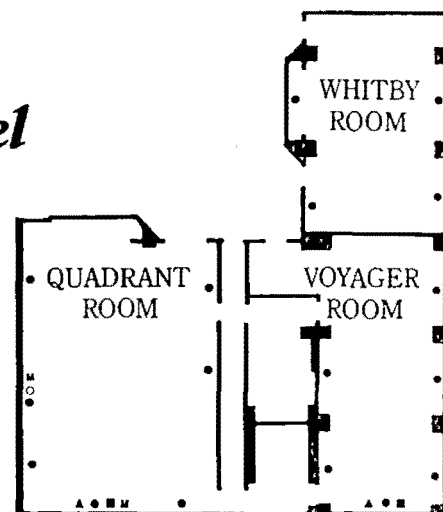
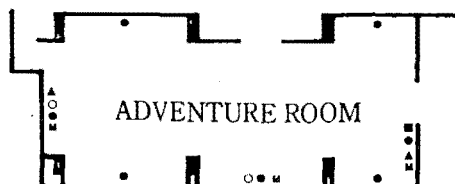
Legend

- 110 RECEPTACLE
- 220 RECEPTACLE
- M MICROPHONE OUTLET
- ▲ TELEPHONE OUTLET
- TELEVISION



	EASTER ISLAND ROOM	RESOLUTION ROOM	ENDEAVOR ROOM	ADVENTURE ROOM	QUADRANT ROOM	VOYAGER ROOM	WHITBY ROOM
THEATRE	54	54	175	120	65	58	50
ROUND TABLE	32	32	120	80	56	32	30
RECEPTION	75	75	200	175	150	100	85
CLASS ROOM	27	27	70	50-60	35	28	28
SQ. FOOTAGE	527	527	1634	1349	1000	651	543
CEILING HT	9'	9'	9'	10'	8'6"	9'4"	9'4"
MAX. ENT	33"	33"	65"	71"	71"	36"	36"

Lower Lobby Level

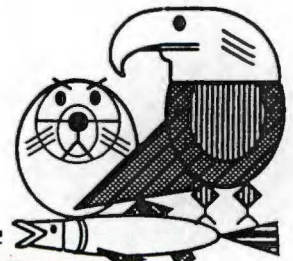


Exxon Valdez Oil Spill Trustee Council

Restoration Office

645 G Street, Suite 401, Anchorage, Alaska 99501-3451

Phone: (907) 278-8012 Fax: (907) 276-7178



FAX COVER SHEET

FAXED

To: Bob Doll Number: 258-4857

From: Eric Myers Date: 12/23/96

Comments: Total Pages: 2

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Document Sent By: Tami Yockey

3/27/96

Trustee Agencies

State of Alaska: Departments of Fish & Game, Law, and Environmental Conservation
United States: National Oceanic and Atmospheric Administration, Departments of Agriculture and Interior

*** ACTIVITY REPORT ***

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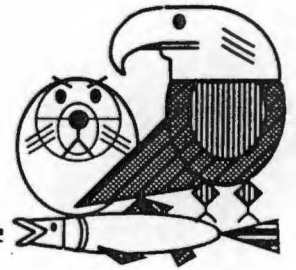
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Exxon Valdez Oil Spill Trustee Council

Restoration Office

645 G Street, Suite 401, Anchorage, Alaska 99501-3451

Phone: (907) 278-8012 Fax: (907) 276-7178



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To: Bill Hauser Number: _____

From: Jami Yockey for Date: 12/23/96
Eric Myers

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Trustee Agencies

State of Alaska: Departments of Fish & Game, Law, and Environmental Conservation

United States: National Oceanic and Atmospheric Administration, Departments of Agriculture and Interior

Exxon Valdez Oil Spill Trustee Council

645 G Street, Suite 401, Anchorage, AK 99501-3451 907/278-8012 fax: 907/276-7178



December 23, 1996

Mr. John Hendricks, Executive Director
Alaska SeaLife Center
P.O. Box 1329
Seward, Alaska 99664

Dear Mr. Hendricks,

At its most recent meeting on December 6, 1996, the Trustee Council was presented with public testimony regarding a request made to the Alaska SeaLife Center by the Qutekcak Native Tribe regarding ways to involve Native people in the development of the Center's interpretive programs.

After discussion of the Qutekcak Native Tribe's letter dated November 26, 1996, the following motion was adopted by the Council:

"The letter from Qutekcak Native Tribe to the Executive Director of the SeaLife Center raises legitimate concerns. The Trustee Council recommends that the Executive Director of the SeaLife Center work closely with the local native community on the issues described in the letter including consideration of the request for formation of a committee, or other working group, for the purpose of assisting the SeaLife Center in producing a respectful and accurate representation of the traditional heritage of Alaskan Native Culture."

As indicated by this motion, it is the Trustee Council's hope that the Center will be able to work closely with the Native community as it moves forward with its program development. It is my understanding that some efforts in this regard have already been undertaken and I look forward to learning more about these efforts in the future.

Thank you for your consideration of this matter.

Sincerely,

Molly McCammon
Executive Director

cc: Trustee Council members

Qutekcak Native Tribe

Changing with the tides, in harmony with our people, land and heritage.

P.O. Box 1467 Seward, AK 99664 907-224-3118 FAX 907-224-5874

26 November 1996

John Hendricks, Executive Director
Alaska Sealife Center
P.O. Box 1329
Seward, AK 99664

Dear Mr. Hendricks:

The Qutekcak Native Tribe would like to discuss two important issues that involve the Native people in Alaska that is centered in the Sealife Center. First we are dismayed about the damage to the Lowell Homestead Site. The second issue is how the Center will portray the Native people of Alaska and their way of life.

We are aware of the communications which have taken place between Deborah L. Williams, Special Assistant to the Secretary for Alaska, US Department of the Interior; Judith E. Bittner, State Historic Preservation Officer, Department of Natural Resources, Office of History and Archeology; Ted Birkedal, Team Leader, Cultural Resources, and/or Gary Somers, Senior Archeologist of the National Park Service and appreciate their concerns and know that they are aware of the need to keep us "abreast of any developments concerning the mitigation plan for the Lowell Homestead Site (Letter 4 Nov. 1996 to Ms. Bittner from Deborah Williams)." The site and now the collections are an important addition to the history of the Resurrection Bay area, and the people who lived here before the western settlement. This homesite of our ancestors involves our history which cannot be taken lightly and without participation of the Qutekcak Native Tribe.

The importance of techniques and rituals of subsistence to the Native people in Alaska involve the sealife that will be housed in your Center. The

John Hendricks, Executive Director
Alaska Sealife Center

11/27/96

Page 2

importance of the rituals used to honor the animals before harvesting, hunting, eating, and processing, the resource is all a part of our way of life.

In order to introduce the types of tools, clothing, food, shelter and gifts made from the natural resources – a respectful consideration of the Alaskan Natives way of life must be understood.

The Qutekcak Native Tribe being the recognized Native entity in this area and after considering what has happened and is being planned, requests that a special committee be formed for the purpose of assisting the Sealife Center produce a respectful and accurate representation of the traditional heritage of Alaskan Native culture in your effort to "include Alaska's past and its Native people because the people are really interesting too" (taken from Restoration Update - Interview with John Hendricks).

This committee would include the following representatives from, Qutekcak Native Tribe Board and their staff, Della Cheney, Tribal Administrator and Molly Burton, Community Facilitator/Natural Resource; Sealife Center Board; and the following individuals, Lora Johnson, Chugachmiut; Martha Vlasoff, EVOS Restoration Office; John Johnson, Chugach Heritage Foundation and invite the Village Council/Tribe from Tatitlek, Port Graham Village, Nanwalek, Eyak, Valdez, and Chenega Bay.

We look forward to discuss this important issue with you as soon as possible. Please call Della Cheney, Tribal Administrator at 224-3118 Ext. 2 to set up a meeting, date, time, and place.

Sincerely,



Arne Hatch,
Vice Chair

dmc

John Hendricks, Executive Director
Alaska Sealife Center

11/27/96

Page 3

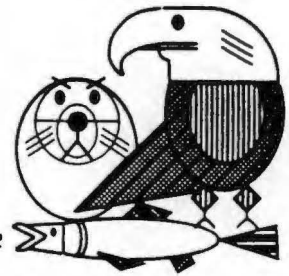
cc: Qutekcak Native Tribe Board, and
Della M. Cheney, Tribal Administrator
Molly Burton, Community Facilitator, Natural Resources
Lora Johnson, Chugachmiut
Martha Vlasoff, EVOS Restoration Office
Deborah L. Williams, Special Assistant to the Secretary for
Alaska, US Department of the Interior
Ms. Judith E. Bittner, State Historic Preservation Officer, Department
of Natural Resources, Office of History and Archeology
Maureen Sims, Selkregg Associates
Ted Birkedal, Team Leader, Cultural Resources, National Park
Service or Gary Somers, Senior Archeologist
John Johnson, Chugach Heritage Foundation
Elenore McMullen, 1st Chief, Port Graham
Vincent Kvasnikoff, Chief, Nanwalek IRA Council
Robert Henrichs, President, Eyak Tribal Council
Gary Kompkoff, President, Tatitlek IRA Council
Benna Hughey, President, Valdez Native Tribe
Don Kompkoff, President, Chenega Bay IRA Council

Exxon Valdez Oil Spill Trustee Council

Restoration Office

645 G Street, Suite 401, Anchorage, Alaska 99501-3451

Phone: (907) 278-8012 Fax: (907) 276-7178



FAX COVER SHEET

FAXED

To: Trustee Council Members

From: Molly McCommen Date: 12/24/96

Comments: _____ Total Pages: 2

TRUSTEE COUNCIL MEMBERS AND ALTERNATES:

Botelho, Bruce	Tillery, Craig
Brown, Michele	Bosworth, Rob
Frampton, Jr., George T.	Williams, Deborah
Janik, Phil	Wolfe, Jim
Pennoyer, Steve	Collinsworth, Don
Rue, Frank	

HARD COPY TO FOLLOW no

FAX SENT BY: Ami

3/27/96

Trustee Agencies

State of Alaska: Departments of Fish & Game, Law, and Environmental Conservation
United States: National Oceanic and Atmospheric Administration, Departments of Agriculture and Interior

*** MULTI TRANSACTION REPORT ***

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TRANSACTION OK

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[25] 19075867840

P. JANIK

[26] 19074652075

B. BOTELHO

[27] 12022084684

G. FRAMPTON

[28] 19075867249

S. PENNOYER

[29] 19074652332

FRANK RUE

[31] 19074655070

MICHELE BROWN

[36] 2787022

ALEX-CRAIG

[37] 2714102

D. WILLIAMS

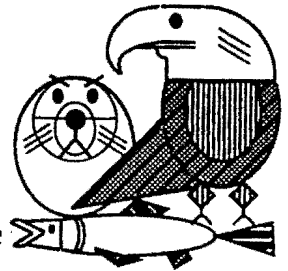
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Exxon Valdez Oil Spill Trustee Council

Restoration Office

645 G Street, Suite 401, Anchorage, Alaska 99501-3451

Phone: (907) 278-8012 Fax: (907) 276-7178



MEMORANDUM

TO: Participants in Public Session of 1997 Restoration Workshop
Dan Esler
Kathy Kuletz
Craig Matkin
Lisa Seeb
Kate Wynne
Carmen Young and Patty Brown-Schwalenberg

FROM: Sandra Schubert *Sandra*
Project Coordinator

RE: Reminder...

DATE: December 23, 1996

Enclosed is a press release issued by the Restoration Office describing the public session of the upcoming workshop. Please feel free to give me a call if you have any questions about what is planned or would like some assistance in putting together your presentation.

Happy holidays!

Trustee Agencies

State of Alaska: Departments of Fish & Game, Law, and Environmental Conservation

United States: National Oceanic and Atmospheric Administration, Departments of Agriculture and Interior

For Immediate Release

December 18, 1996

96-20



**EXXON VALDEZ OIL SPILL
TRUSTEE COUNCIL**

645 G STREET, ANCHORAGE, AK, 99501
PH 907/278-8012 • FAX 907/276-7178

1997

**Restoration
Workshop**

JANUARY 23-25

ANCHORAGE, ALASKA

Public Session

SATURDAY,

JANUARY 25

2 P.M.

**Restoration Workshop to Host
Educational Public Session**

Students and a curious public will be given front row seats this January when leading scientists from throughout Alaska and the nation gather to share what they have learned about the effects of the *Exxon Valdez* oil spill and the prospects for recovery of species injured by the spill.

The Restoration Workshop is sponsored each year by the *Exxon Valdez* Oil Spill Trustee Council to allow scientists to share technical data, analysis and ideas with other scientists. The entire forum is open to the public. This year, however, a special two-hour presentation will be geared specifically for the public, with scientists and researchers on hand to explain their findings to date.

The public session will be ideal for the student who wants to know more about what it's like to be a biologist working in Alaska. It will not only focus on study results, but also on what it takes to conduct research in Alaska waters.

Studying the marbled murrelet, for example, requires creative research techniques. Murrelets, which have been clocked at 100 miles an hour darting through thick forests, are elusive in their nesting habitats. To observe a nest, researchers in full climbing gear must climb 40 feet or more to the tops of old growth Sitka spruce.

The public will get a chance to view a whole new world under the sea through video taken as part of hydro-acoustic research in Prince William Sound. Biologists will talk about killer whales and explain how they grow baby clams and "plant" them as seedlings the size of a fingernail. The public will learn about tagging and tracking harbor seals, how vital lab work helps protect Cook Inlet salmon runs, and how kayaks are used to "herd" harlequin ducks into a pen for tagging.

-more-

Exxon Valdez Oil Spill Trustee Council

645 G Street, Suite 401, Anchorage, AK 99501-3451 907/278-8012 fax: 907/276-7178



December 20, 1996

Mark Luttrell, Director
Eastern Kenai Peninsula Environmental Action Association
Box 511
Seward, Alaska 99664

Dear Mark,

Thank you for your recent e-mail in regard to the Lowell Point small parcel. As you well know, the process to secure this property has been a long one. The constant support for acquisition of this parcel from community residents of Seward has been invaluable.

At this point, there is not much more to be done. The court request for the funds has been submitted and the Department of Law, on behalf of the State, anticipates a final closing on the property in January.

Again, thank you for your acknowledgment. I think we will all benefit enormously from this addition to the State Park system — a great way to start the New Year!

Sincerely,

A handwritten signature in black ink, reading "Molly McCammon". The signature is fluid and cursive, with a long horizontal line extending from the end of the name.

Molly McCammon
Executive Director

Federal Trustees

U.S. Department of Interior
U.S. Department of Agriculture
National Oceanic and Atmospheric Administration

State Trustees

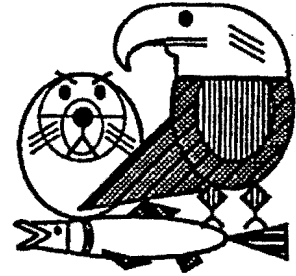
Alaska Department of Fish and Game
Alaska Department of Environmental Conservation
Alaska Department of Law

Exxon Valdez Oil Spill Trustee Council

Restoration Office

645 "G" Street, Anchorage, AK 99501

Phone: (907) 278-8012 Fax: (907) 276-7178



MEMORANDUM

TO: Trustee Council

THROUGH: Molly McCammon
Executive Director

FROM: *Traci Cramer*
Traci Cramer
Administrative Officer

DATE: December 20, 1996

RE: Financial Report as of November 30, 1996

Attached is the Statement of Revenue, Disbursements and Fees, and accompanying notes for the *Exxon Valdez* Joint Trust Fund for the period ending November 30, 1996.

The following is a summary of the information incorporated in the notes and contained on the statement.

Liquidity Account Balance	\$71,628,198	
Less: Current Year Commitments (Note 5)	\$18,799,292	
Plus: Adjustments (Note 6)	<u>\$162,806</u>	
Uncommitted Fund Balance		\$52,991,712
Plus: Future Exxon Payments (Note 1)	\$350,000,000	
Less: Remaining Reimbursements (Note 3)	20,000,000	
Less: Remaining Commitments (Note 7)	<u>\$48,805,734</u>	
Total Estimated Funds Available		\$334,185,978
Restoration Reserve		\$35,996,170

If you have any questions regarding the information provided please give me a call at 586-7238.

attachments

cc: Agency Liaisons
Bob Baldauf

Trustee Agencies

State of Alaska: Departments of Fish & Game, Law, and Environmental Conservation
United States: National Oceanic & Atmospheric Administration, Departments of Agriculture and Interior

NOTES TO THE STATEMENT OF REVENUE, DISBURSEMENTS AND FEES
FOR THE *EXXON VALDEZ* JOINT TRUST FUND
As of November 30, 1996

1. Contributions - Pursuant to the agreement Exxon is to pay a total of \$900,000,000.

Received to Date	\$550,000,000
Future Payments	\$350,000,000

2. Interest Income - In accordance with the MOA, the funds are deposited in the United States District Court, Court Registry Investment System (CRIS). All deposits with CRIS are maintained in United States government treasury securities with maturities of 100 days or less. Total earned since the last report is \$297,533.
3. Reimbursement of Past Costs - Under the terms of the agreement, the United States and the State are reimbursed for expenses associated with the spill. The remaining reimbursements represents that amount due the State of Alaska.
4. Fees - CRIS charges a fee of 10% for cash management services. Total paid since the last report is \$29,753.
5. Current Year Commitments - Includes \$1,570,600 for the Chenega-Area Shoreline Residual Oiling Project, \$193,692 for the 1997 Deferred Work Plan Projects, \$531,000 for KEN 1015, \$128,000 for KAP 98, \$52,000 for KAP 101, \$68,000 for KAP 131, \$256,000 for KAP 132 and the following land payments.

<u>Seller</u>	<u>Amount</u>	<u>Due</u>
Akhiok-Kaguyak	\$7,500,000	September 1997
Koniag, Incorporated	\$4,500,000	September 1997
Shuyak	\$4,000,000	October 1997

6. Adjustments - Under terms of the Agreement, both interest earned on previous disbursements and prior years unobligated funding or lapse are deducted from future court requests. Unreported interest and lapse is summarized below.

	<u>Interest</u>	<u>Lapse</u>
United States	\$0	\$0
State of Alaska	\$162,806	\$0

7. Remaining Commitments - Includes the following land payments.

<u>Seller</u>	<u>Amount</u>	<u>Due</u>
Shuyak	\$16,000,000	October 1998 through 2001
Shuyak	\$11,805,734	October 2002
Koniag, Incorporated	\$4,500,000	September 1998
Koniag, Incorporated	\$16,500,000	September 2002

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Trustee Agencies

State of Alaska: Departments of Fish & Game, Law, and Environmental Conservation
United States: National Oceanic & Atmospheric Administration, Departments of Agriculture and Interior

STATEMENT OF REVENUE, DISBURSEMENT, AND FEES
EXXON VALDEZ OIL SPILL JOINT TRUST FUND
As of November 30, 1996

	1994	1995	1996	To Date 1997	Cumulative Total
REVENUE:					
Contributions: (Note 1)					
Contributions from Exxon Corporation	70,000,000	70,000,000	70,000,000	0	550,000,000
Less: Credit to Exxon Corporation for clean-up costs incurred					(39,913,688)
Total Contributions	70,000,000	70,000,000	70,000,000	0	510,086,312
Interest Income: (Note 2)					
Exxon Corporation escrow account					831,233
Joint Trust Fund Account	3,736,000	5,706,666	3,963,073	595,539	15,975,277
Total Interest	3,736,000	5,706,666	3,963,073	595,539	16,806,510
Total Revenue	73,736,000	75,706,666	73,963,073	595,539	526,892,822
DISBURSEMENTS:					
Reimbursement of Past Costs: (Note 3)					
State of Alaska	25,000,000		3,291,446		86,559,288
United States	6,271,600	2,697,000	0		69,812,045
Total Reimbursements	31,271,600	2,697,000	3,291,446	0	156,371,333
Disbursements from Liquidity Account:					
State of Alaska	44,546,266	41,969,669	43,340,950	3,075,625	158,020,823
United States	6,008,387	48,019,928	31,047,824	2,790,000	103,292,520
Transfer to the Restoration Reserve			35,996,231		35,996,231
Total Disbursements	50,554,653	89,989,597	110,385,005	5,865,625	297,309,574
FEES:					
U.S. Court Fees (Note 4)	364,000	586,857	396,307	59,554	1,583,718
Total Disbursements and Fees	82,190,253	93,273,454	114,072,758	5,925,179	455,264,625
Increase (decrease) in Liquidity Account	(8,454,253)	(17,566,788)	(40,109,685)	(5,329,640)	71,628,198
Liquidity Account Balance, beginning balance	143,088,564	134,634,311	117,067,523	76,957,838	
Liquidity Account Balance, end of period	134,634,311	117,067,523	76,957,838	71,628,198	
Current Year Commitments: (Note 5)					(18,799,292)
Adjustments: (Note 6)					162,806
Uncommitted Liquidity Account Balance					52,991,712
Remaining Reimbursements (Note 3)					(20,000,000)
Remaining Commitments: (Note 7)					(48,805,734)
Total Estimated Funds Available					334,185,978
Restoration Reserve					35,996,170

Statement 1

Statement of *Exxon Valdez* Settlement Funds
As of November 30, 1996

Beginning Balance of Settlement 900,000,000

Receipts:

Interest Earned on Exxon Escrow Account 831,233

Net Interest Earned on Joint Trust Fund (Note 1) 14,391,559

Interest Earned on United States and State of Alaska Accounts 3,797,722

Total Interest 19,020,514

Disbursements:

Reimbursements to United States and State of Alaska 156,371,333

Exxon clean up cost deduction 39,913,688

Joint Trust Fund deposits 354,546,212

Total Disbursements 550,831,233

Funds Available:

Exxon future payments 350,000,000

Balance in Liquidity Account 71,628,198

Future acquisition payments (Note 2) (64,805,734)

Alaska Sealife Center 0

Remaining Reimbursements (20,000,000)

Other (Note 3) 162,806

Total Estimated Funds Available 336,985,270

Restoration Reserve 35,996,170

Note 1: Gross interest earned less District Court registry fees.

Note 2: Includes both current year and future year payments

Note 3: Adjustment for unreported interest earned and lapse

Footnote:

Included in the Total Estimated Funds Available is the sum of \$1,570,600 for the FY1997
Chenega-Area Shoreline Residual Oiling Project, \$193,692 for the FY97 Work Plan, \$531,000 for
KEN 1015, \$128,000 for KAP 98, \$52,000 for KAP101, \$68,000 for KAP 131 and \$256,000 for
KAP 132.

Statement 2

Cash Flow Statement Exxon Valdez Liquidity Account As of November 30, 1996

Receipts:

Exxon payments

December 1991	36,837,111	
December 1992	56,586,312	
September 1993	68,382,835	
September 1994	58,728,400	
September 1995	67,303,000	
September 1996	66,708,554	

Total Deposits	354,546,212	354,546,212
----------------	-------------	-------------

Interest Earned	15,975,277	
-----------------	------------	--

Total Interest	15,975,277	15,975,277
----------------	------------	------------

Total Receipts		370,521,489
----------------	--	-------------

Disbursements:

Court Requests

Fiscal Year 1992	12,879,700
Fiscal Year 1993	27,634,994
Fiscal Year 1994	50,554,653
Fiscal Year 1995	89,989,597
Fiscal Year 1996	74,388,774
Fiscal Year 1997	5,865,625

Total Requests	261,313,343	261,313,343
----------------	-------------	-------------

District Court Fees	1,583,718	1,583,718
---------------------	-----------	-----------

Transfer to the Restoration Reserve (2/15/96)		35,996,231
---	--	------------

Total Disbursements		298,893,292
---------------------	--	-------------

Balance in Joint Trust Fund		71,628,198
-----------------------------	--	------------

Schedule of Payments from Exxon
As of November 30, 1996

Disbursements:	December 91	December 92	September 93	September 94	September 95	September 96	Total
Reimbursements:							
United States							
FFY92	24,726,280	0	0				24,726,280
FFY93	0	24,500,000	11,617,165				36,117,165
FFY94	0	0	0	6,271,600			6,271,600
FFY95	0	0	0		2,697,000		2,697,000
Total United States	24,726,280	24,500,000	11,617,165	6,271,600	2,697,000	0	69,812,045
State of Alaska							
General Fund:							
FFY92	25,313,756	0	0				25,313,756
FFY93	0	16,685,133	0				16,685,133
FFY94	0	0	14,762,703				14,762,703
FFY95	0	0	0	0			0
Mitigation Account:							
FFY92	3,954,086	0	0				3,954,086
FFY93	0	12,314,867	0				12,314,867
FFY94	0	0	5,237,297	5,000,000			10,237,297
FFY95 (Prevention Account)	0	0	0		0		0
FFY96 (Prevention Account)						3,291,446	3,291,446
Total State of Alaska	29,267,842	29,000,000	20,000,000	5,000,000	0	3,291,446	86,559,288
Total Reimbursements	53,994,122	53,500,000	31,617,165	11,271,600	2,697,000	3,291,446	156,371,333
Deposits to Joint Trust Fund							
FFY92	36,837,111	0	0				36,837,111
FFY93	0	56,586,312	68,382,835				124,969,147
FFY94	0	0	0				0
FFY95	0	0	0	58,728,400	67,303,000		126,031,400
FFY96						66,708,554	66,708,554
Total Deposits to Joint Trust Fund	36,837,111	56,586,312	68,382,835	58,728,400	67,303,000	66,708,554	354,546,212
Exxon clean up cost deduction	0	39,913,688	0	0	0	0	39,913,688
Total Payments	90,831,233	150,000,000	100,000,000	70,000,000	70,000,000	70,000,000	550,831,233
Remaining Exxon payments to be made:							
September 1994	0						
September 1995	0						
September 1996	0						
September 1997	70,000,000						
September 1998	70,000,000						
September 1999	70,000,000						
September 2000	70,000,000						
September 2001	70,000,000						
	350,000,000						

The December 1991 payment includes interest accrued on the escrow account.

Schedule of Disbursements
Exxon Valdez Liquidity Account
As of November 30, 1996

	United States	State of Alaska	Court Request Total	Court Fees	Disbursements Total
Court Request 1	6,320,500	6,559,200	12,879,700		
Total Fiscal Year 1992	6,320,500	6,559,200	12,879,700	23,000	12,902,700
Court Request 2	3,074,029	3,493,225	6,567,254		
Court Request 3	6,031,852	15,035,888	21,067,740		
Total Fiscal Year 1993	9,105,881	18,529,113	27,634,994	154,000	27,788,994
Court Request 4		29,950,000	29,950,000		
Court Request 5	2,516,069	2,227,856	4,743,925		
Court Request 6	1,407,818	12,211,164	13,618,982		
Court Request 7	2,084,500	157,246	2,241,746		
Total Fiscal Year 1994	6,008,387	44,546,266	50,554,653	364,000	50,918,653
Court Request 8	3,576,179	7,088,077	10,664,256		
Court Request 9	3,226,182	3,111,204	6,337,386		
Court Request 10		9,234,909	9,234,909		
Court Request 11	1,450,000		1,450,000		
Court Request 12	17,200,000		17,200,000		
Court Request 13	1,480,251	171,763	1,652,014		
Court Request 14	15,250,000		15,250,000		
Court Request 15	5,837,316	9,863,716	15,701,032		
Court Request 16		12,500,000	12,500,000		
Total Fiscal Year 1995	48,019,928	41,969,669	89,989,597	586,857	90,576,454
Court Request 17		3,294,667	3,294,667		
Court Request 18	8,000,000		8,000,000		
Court Request 19	3,222,224	1,968,898	5,191,122		
Restoration Reserve Transfer			35,996,231		
Court Request 20		8,000,000	8,000,000		
Court Request 21	1,007,000	5,520,500	6,527,500		
Court Request 22	18,818,600	24,556,885	43,375,485		
Total Fiscal Year 1996	31,047,824	43,340,950	110,385,005	396,307	110,781,312
Court Request 23	2,613,500	0	2,613,500		
Court Request 24	176,500	3,075,625	3,252,125		
Court Request 25			0		
Court Request 26			0		
Court Request 27			0		
Total Fiscal Year 1997	2,790,000	3,075,625	5,865,625	59,554	5,925,179
Total	103,292,520	158,020,823	297,309,574	1,583,718	298,893,292

Exxon Valdez Liquidity Account**Interest Earned/District Court Registry Fees****As of November 30, 1996**

	FFY 1992	FFY 1993	FFY 1994	FFY 1995	FFY 1996	FFY 1997	Total
Earnings Deposits	17,683	31,124	33,476	55,809			138,092
Earnings Allocated:							
1991	28,704						28,704
1992	526,613	553,696					1,080,309
1993		639,180	1,461,735				2,100,915
1994			1,876,789	1,402,937			3,279,726
1995				3,661,063	1,202,209		4,863,272
1996					2,364,556	535,985	2,900,541
Total	555,317	1,192,876	3,338,524	5,064,000	3,566,766	535,985	14,253,467
Total Earnings	573,000	1,224,000	3,372,000	5,119,809	3,566,766	535,985	14,391,559
Registry Fees:							
1991	3,189						3,189
1992	19,811	100,223					120,034
1993		53,777	179,658				233,435
1994			184,342	180,072			364,414
1995				406,785	133,579		540,364
1996					262,729	59,554	322,282
Total	23,000	154,000	364,000	586,857	396,307	59,554	1,583,718
Gross Earnings	596,000	1,378,000	3,736,000	5,706,666	3,963,073	595,539	15,975,277

Schedule of Interest Earned on United States and State of Alaska Accounts				
As of November 30, 1996				
	State of Alaska	United States		
	EVOSS Account	NRDA& R	Total	
June 1992	22,675		22,675	
June 1993	7,713		7,713	
July 1993	38,502		38,502	
August 1993	31,719		31,719	
September 1993	21,069		21,069	
October 1993	19,030		19,030	
November 1993	28,561		28,561	
December 1993	16,817		16,817	
January 1994	22,398		22,398	
February 1994	19,086	117,178	136,264	
March 1994	20,754		20,754	
April 1994	18,714		18,714	
May 1994	15,878		15,878	
June 1994	17,707	24,823	42,530	
July 1994	52,823		52,823	
August 1994	43,845		43,845	
September 1994	40,408	43,567	83,975	
October 1994	44,291		44,291	
November 1994	63,286		63,286	
December 1994	67,496	3,849	71,346	
January 1995	89,341		89,341	
February 1995	100,714		100,714	
March 1995	104,570	17,033	121,603	
April 1995	95,432		95,432	
May 1995	92,595		92,595	
June 1995	80,613	50,042	130,655	
July 1995	76,424		76,424	
August 1995	68,771		68,771	
September 1995	59,945	44,826	104,771	
October 1995	133,486		133,486	
November 1995	154,119		154,119	
December 1995	143,917	39,567	183,484	
January 1996	134,300		134,300	
February 1996	122,348		122,348	
March 1996	132,469	64,381	196,850	
April 1996	126,550		126,550	
May 1996	136,732		136,732	
June 1996	145,501	73,267	218,768	
July 1996	128,195		128,195	
August 1996	106,079		106,079	
September 1996	110,890	29,042	139,933	
October 1996	181,598		181,598	
November 1996	162,806		162,806	
Total	3,452,952	507,576	3,797,722	
NOTE: The \$117,178 NRDA&R interest figure is cumulative.				
Interest was earned for the period July 1992 through May 1993, but the specific amounts have been hidden to allow the spreadsheet to print on one page.				

**Schedule of Interest Adjustments to the Court Requests
As of November 30, 1996**

	June 1992	December 1992	June 1993	December 1993	June 1994	October 1994	November 1994	December 1994	March 1995	August 1995	January 1996	May 1996	July 1996	August 1996	December 1996	Total	Unallocated Interest
Disbursements:																	
Court Requests																	
United States																	
FFY92	0																2 Baldauf 12/6/96
FFY93		39,871	3,648														43,519
FFY94				51,231	22,427												73,658
FFY95						34,621		37,618	3,849	63,226							139,314
FFY96											48,676	37,100	26,600	109,666	29,041	251,083	
Total United States	0	39,871	3,648	51,231	22,427	34,621	0	37,618	3,849	63,226	48,676	37,100	26,600	109,666	29,041	507,576	(0)
State of Alaska																	
FFY92	0																0
FFY93		80,775	35,012														115,787
FFY94				64,944	239,090												304,034
FFY95						52,823	117,838	44,291	320,837	449,634							985,423
FFY96											262,202	300	289,400	934,433	398,567	1,884,902	
Total State of Alaska	0	80,775	35,012	64,944	239,090	52,823	117,838	44,291	320,837	449,634	262,202	300	289,400	934,433	398,567	3,290,146	162,806
Total Adjustment	0	120,646	38,660	116,175	261,517	87,444	117,838	81,909	324,686	512,860	310,878	37,400	316,000	1,044,099	427,608	3,797,722	162,806

Footnotes:

The unallocated interest is tied to the INT Acct. sheet.

**Schedule of Lapse Adjustments to the Court Requests
As of November 30, 1996**

	December 1993	June 1994	August 1995	August 1996	Total
Disbursements:					
Court Requests					
United States					
FFY92					0
FFY93					0
FFY94		3,106,555			3,106,555
FFY95					0
FFY96			301,558		301,558
FFY97				1,165,334	1,165,334
Total United States	0	3,106,555	301,558	1,165,334	3,408,113
State of Alaska					
FFY92					0
FFY93					0
FFY94	3,661,600				3,661,600
FFY95					0
FFY96			2,376,950		2,376,950
FFY97				2,500,448	2,500,448
Total State of Alaska	3,661,600	0	2,376,950	2,500,448	6,038,550
Total Adjustment	3,661,600	3,106,555	2,678,508	3,665,782	9,446,663

Footnote

The August 1995 adjustment for the Federal Government included an \$80,700 reimbursement associated with excessive payment for final costs relating to damage assessment activities.

Schedule of Work Plan Authorizations and Other Authorizations

	FFY 92	FFY 93	FFY 94	FFY 95	FFY 96	FFY 97	Total
United States:							
June 15, 1992	6,320,500	0	0				
January 25, 1993	0	3,113,900	0				
January 25, 1993	0	6,035,500	0				
November 10, 1993	0	0	0				
November 30, 1993	0	0	2,567,300				
June 1994			4,536,800				
June 1994			84,500				
July 1994			1,500,000				
August 1994				2,110,800			
November 1994				2,514,200			
December 1994				749,600			
March 1995				1,484,100			
August 1995				(36,700)	6,238,800		
December 1995					3,270,900		
January 1996					150,000		
April 1996					478,000		
May 1996					37,100		
June 1996					26,600		
August 1996						7,938,400	
December 1996						310,900	
Total	6,320,500	9,149,400	8,688,600	6,822,000	10,201,400	8,249,300	49,431,200

Schedule of Work Plan Authorizations and Other Authorizations

	FFY 92	FFY 93	FFY 94	FFY 95	FFY 96	FFY 97	Total
State of Alaska							
June 15, 1992	6,559,200	0	0				
January 25, 1993	0	3,574,000	0				
January 25, 1993	0	7,570,900	0				
November 30, 1993	0	1,500,000	4,454,300				
June 1994			12,391,700				
June 1994			215,800				
July 1994			0				
August 1994				7,140,900			
November 1994				9,098,700			
December 1994				180,500			
March 1995				492,600			
August 1995				36,700	12,653,600		
December 1995					2,231,100		
April 1996					500,000		
May 1996					300		
June 1996					289,400	1,570,600	
August 1996						13,341,500	
December 1996						310,400	
Total	6,559,200	12,644,900	17,061,800	16,949,400	15,674,400	15,222,500	84,112,200

Schedule of Work Plan Authorizations and Other Authorizations

	FFY 92	FFY 93	FFY 94	FFY 95	FFY 96	FFY 97	Total
Other Authorizations							
United States:							
Orca Narrows (6/94, Eyak)			2,000,000	1,650,000			3,650,000
Kodiak National Wildlife Refuge (3/95, 9/95 AKI)				21,000,000	7,500,000		28,500,000
Kodiak National Wildlife Refuge (3/95, 9/95 Old Harbor)				11,250,000			11,250,000
Koniag					12,500,000		12,500,000
Small Parcels					534,200	3,294,000	3,828,200
Total			2,000,000	33,900,000	20,534,200	3,294,000	59,728,200
State of Alaska:							
Kachemak Bay State Park (1/95)		7,500,000					7,500,000
Seal Bay (11/93,11/94,11/95,11/96)			29,950,000	3,229,042	3,294,667	3,075,625	39,549,334
Shuyak (3/96, 10/96 - 10/02)					8,000,000	2,194,266	10,194,266
Small Parcels					5,020,500	531,000	5,551,500
Alaska SeaLife Center				12,500,000	12,456,000		24,956,000
Total		7,500,000	29,950,000	15,729,042	28,771,167	5,800,891	87,751,100
Total Other Authorizations	0	7,500,000	31,950,000	49,629,042	49,305,367	9,094,891	147,479,300
Total Work Plan Authorizations	12,879,700	21,794,300	25,750,400	23,771,400	25,875,800	23,471,800	133,543,400
Restoration Reserve			12,000,000	12,000,000	12,000,000		36,000,000
Total Authorized	12,879,700	29,294,300	69,700,400	85,400,442	87,181,167	32,566,691	317,022,700

Footnotes:

Work Plan Authorization and Land/Capital Acquisitions only. Will not balance to the Schedule of Disbursements from the Joint Trust Fund or the court requests due to the reauthorization of projects (carry-forward) and deductions for interest and lapse.

This schedule does tie to the quarterly reports with the exception of 93' and 92'. In FY93 the Work Plan represented the transition to the Federal Fiscal Year from the Oil Year or a seven month period. This schedule presents authorization on the Federal Fiscal Year and as such FFY92 and FFY93 does not balance.

The Trustee Council conditionally approved \$181,900 for Fleming Spit on 6/1/95. However, the project has not approved by the Department of Justice and as such has not been included on this statement.

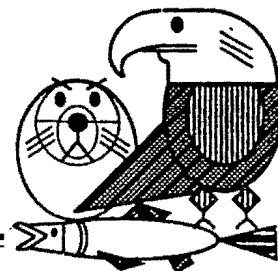
The Trustee Council approved \$1,900,000 for the Chenega-Area Shoreline Residual Oiling Project June 28, 1996. Of the total, \$293,000 was allocated to FFY 96 and \$36,400 was allocated to FFY97. The remainder of \$1,570,600 will be allocated to FFY 97 based on the final remediation plan.

Exxon Valdez Oil Spill Trustee Council

Restoration Office

645 G Street, Suite 401, Anchorage, Alaska 99501-3451

Phone: (907) 278-8012 Fax: (907) 276-7178



MEMORANDUM

TO: Byron Morris/NOAA

FROM: Molly McCammon
Executive Director

RE: Authorization: Project 97012/Comprehensive Killer Whale Investigation in Prince William Sound

DATE: December 19, 1996

The purpose of this memorandum is to formally authorize expenditure of the funds approved by the Trustee Council at their December 6, 1996 meeting for Project 97012/Comprehensive Killer Whale Investigation in Prince William Sound. Funds must be spent consistent with the Detailed Project Description.

Trustee Agencies

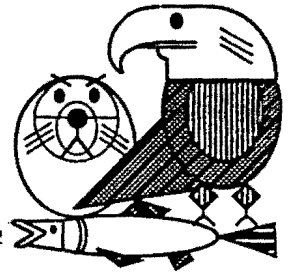
State of Alaska: Departments of Fish & Game, Law, and Environmental Conservation
United States: National Oceanic and Atmospheric Administration, Departments of Agriculture and Interior

Exxon Valdez Oil Spill Trustee Council

Restoration Office

645 G Street, Suite 401, Anchorage, Alaska 99501-3451

Phone: (907) 278-8012 Fax: (907) 276-7178



MEMORANDUM

TO: Claudia Slater/ADF&G

FROM: Molly McCammon
Executive Director

RE: Authorization: Project 97251-CLO/Akalura Lake Sockeye Salmon
Restoration

DATE: December 19, 1996

The purpose of this memorandum is to formally authorize work to proceed on Project 97251-CLO/Akalura Lake Sockeye Salmon Restoration. As approved by the Trustee Council, this project consists of completion of field work as well as preparation of a final report.

Trustee Agencies

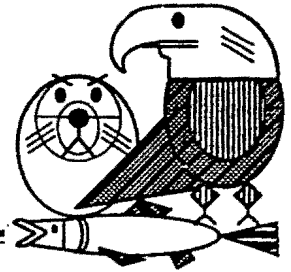
State of Alaska: Departments of Fish & Game, Law, and Environmental Conservation
United States: National Oceanic and Atmospheric Administration, Departments of Agriculture and Interior

Exxon Valdez Oil Spill Trustee Council

Restoration Office

645 G Street, Suite 401, Anchorage, Alaska 99501-3451

Phone: (907) 278-8012 Fax: (907) 276-7178



MEMORANDUM

TO: Claudia Slater/ADF&G

FROM: Molly McCammon
Executive Director

RE: Authorization: Project 97166/Herring Natal Habitats

DATE: December 19, 1996

The purpose of this memorandum is to formally authorize expenditure of the funds approved by the Trustee Council at their December 6, 1996 meeting for Project 97166/Herring Natal Habitats. Funds must be spent consistent with the revised Detailed Project Description.

Trustee Agencies

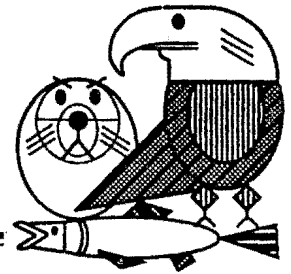
State of Alaska: Departments of Fish & Game, Law, and Environmental Conservation
United States: National Oceanic and Atmospheric Administration, Departments of Agriculture and Interior

Exxon Valdez Oil Spill Trustee Council

Restoration Office

645 G Street, Suite 401, Anchorage, Alaska 99501-3451

Phone: (907) 278-8012 Fax: (907) 276-7178



MEMORANDUM

TO: Al Ewing
Deputy Commissioner, ADEC

FROM: Molly McCammon
Executive Director

RE: Authorization: Project 97026-CLO/Report Writing: Integration of Microbial and Chemical Sediment Data

DATE: December 19, 1996

The purpose of this memorandum is to formally authorize work to proceed on Project 97026-CLO/Report Writing: Integration of Microbial and Chemical Sediment Data. All work must be performed consistent with the November 1, 1996 letter from Joan Braddock to Sandra Schubert.

cc: JoEllen Hanrahan, ADEC (fax 465-5097)

Trustee Agencies

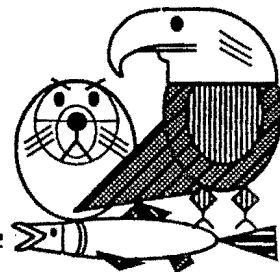
State of Alaska: Departments of Fish & Game, Law, and Environmental Conservation
United States: National Oceanic and Atmospheric Administration, Departments of Agriculture and Interior

Exxon Valdez Oil Spill Trustee Council

Restoration Office

645 G Street, Suite 401, Anchorage, Alaska 99501-3451

Phone: (907) 278-8012 Fax: (907) 276-7178



MEMORANDUM

TO: Catherine Berg/DOI

FROM: Molly McCammon
Executive Director

RE: Authorization -- Project 97169/Genetic Study to Aid in Restoration of
Murre, Guillemots, and Murrelets in the Gulf of Alaska

DATE: December 20, 1996

The purpose of this memorandum is to formally authorize work to proceed on Project 97169/Genetic Study to Aid in Restoration of Murre, Guillemots, and Murrelets in the Gulf of Alaska. Work must be performed consistent with the Detailed Project Description as modified by the May 29, 1996 letter from Dr. Vicki Friesen to Molly McCammon.

Trustee Agencies

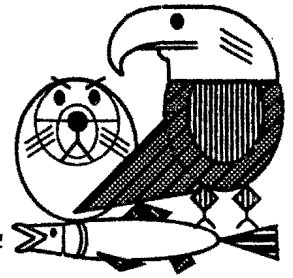
State of Alaska: Departments of Fish & Game, Law, and Environmental Conservation
United States: National Oceanic and Atmospheric Administration, Departments of Agriculture and Interior

Exxon Valdez Oil Spill Trustee Council

Restoration Office

645 G Street, Suite 401, Anchorage, Alaska 99501-3451

Phone: (907) 278-8012 Fax: (907) 276-7178



MEMORANDUM

To: Dan Rosenberg, Mark Willette, Dana Schmidt, Andy Hoffman, Kelly Hepler, Jim Fall, and Rita Miraglia

From: Stan Senner, Science Coordinator
Joe Hunt, Communications Director *Stan Senner*

Subject: Subtidal Account for the *Restoration Notebook* Series

Date: December 19, 1996

For almost a year now, the Restoration Office has been planning to produce a series of accounts on key resources and services injured by the *Exxon Valdez* oil spill. The first two accounts are on harbor seals (by Kathy Frost) and marbled murrelets (by Kathy Kuletz) and are enclosed for your information. Please see the attached list of planned accounts and **possible** authors.

The *Restoration Notebook* series, as we are calling it, is intended to pull together information on the injury and recovery status of key injured resources and services and what has been done in the way of restoration activities. This semi-technical series is aimed at educated lay readers. These accounts are not intended for citation as scientific publications, though they must be scientifically sound, based on project reports and the literature. The *Restoration Notebook* will appear in a loose-leaf format and be put out electronically on the OSPIC website. We expect that the accounts will be updated periodically (e.g., every other year?).

As per the attached list, we are eager to have your expert help with this project.

Specifically, we invite you to help prepare the first drafts of the listed accounts (harlequin duck, pink salmon, sockeye salmon, cutthroat trout/Dolly Varden, and subsistence), secure photos and figures, and review subsequent drafts leading to the final product. We will supply the scientific review (with the Chief Scientist), editing and proof-reading, formatting, and polishing. We will do most of the work after the initial draft is prepared.

Trustee Agencies

State of Alaska: Departments of Fish & Game, Law, and Environmental Conservation

United States: National Oceanic and Atmospheric Administration, Departments of Agriculture and Interior

Page 2
Subtidal
December 19, 1996

In terms of timing, we aim to get as many accounts moving as quickly as we can, but our goal is to have a draft of each account in hand by the end of February. We know that this is a busy time of year, but so is most of the rest of the year! Would you consider this request and let Stan know whether you can make a commitment to produce the requested draft, and, if so, when it might be done? We can be reached at the telephone and fax numbers on this letterhead or by e-mail (<stans@oilspill.state.ak.us> <joe@oilspill.state.ak.us>). If possible, please contact Stan about your participation no later than Monday, January 6.

You may ask whether the Restoration Office is able to pay for the necessary staff time. We cannot, but it is our hope that as a long-time investigators in the EVOS restoration program you will appreciate the importance of summarizing this information in a way that is accessible to the general public and will be willing and eager to help. In addition, you should be aware that this project is a high priority of both the Trustee Council and the Public Advisory Group. If it simply is not possible to produce drafts in a reasonable time, let's discuss the alternatives.

The enclosed accounts by Kathy Frost and Kathy Kuletz can serve as style models. If you have questions about style, please call Joe. We also have enclosed a generic outline for the substance of the account. You will need to adapt this to your own resource, and, in the case of subsistence, it won't help much at all. If you have questions about substance, give Stan a call.

Thank you for considering this request. Again, please let Stan know whether and when you can help with this project.

encl: (4)

cc: Molly McCammon, Executive Director
Dr. Robert Spies, Chief Scientist
Claudia Slater, ADFG Liaison
Bill Hauser, ADFG

Exxon Valdez Oil Spill Trustee Council

645 G Street, Suite 401, Anchorage, AK 99501-3451 907/278-8012 fax: 907/276-7178



December 18, 1996

John French
School of Fisheries & Ocean Science
University of Alaska
P.O. Box 757220
Fairbanks, Alaska 99775-7220

Dear John:

This letter is to inform you of the status of nominations by the *Exxon Valdez* Oil Spill Trustee Council for appointment to the Public Advisory Group (PAG). We appreciate your desire to continue to serve on this body. A number of excellent applications and nominations for membership on the PAG were received, and not all could be selected. Although your name was not chosen as one of those that have been put forward for official appointment for this term, I want you to know that all your past efforts and contributions have been greatly appreciated by the Trustee Council. I encourage you to continue to stay involved in the restoration process and consider applying again in two years.

Again thank you for your past involvement in the restoration process.

Sincerely,


Molly McCammon
Executive Director

*select
letters*

Exxon Valdez Oil Spill Trustee Council

645 G Street, Suite 401, Anchorage, AK 99501-3451 907/278-8012 fax: 907/276-7178



December 18, 1996

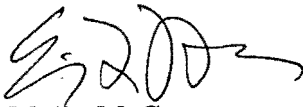

James Diehl
Knik Canoers and Kayakers
Box 868
Girdwood, Alaska 99587

Dear Jim:

This letter is to inform you of the status of nominations by the *Exxon Valdez* Oil Spill Trustee Council for appointment to the Public Advisory Group (PAG). We appreciate your desire to continue to serve on this body. A number of excellent applications and nominations for membership on the PAG were received, and not all could be selected. Although your name was not chosen as one of those that have been put forward for official appointment for this term, I want you to know that all your past efforts and contributions have been greatly appreciated by the Trustee Council. I encourage you to continue to stay involved in the restoration process and consider applying again in two years.

Again thank you for your past involvement in the restoration process.

Sincerely,


Molly McCammon
Executive Director 

Federal Trustees

U.S. Department of Interior
U.S. Department of Agriculture
National Oceanic and Atmospheric Administration

State Trustees

Alaska Department of Fish and Game
Alaska Department of Environmental Conservation
Alaska Department of Law

Exxon Valdez Oil Spill Trustee Council

645 G Street, Suite 401, Anchorage, AK 99501-3451 907/278-8012 fax: 907/276-7178



December 18, 1996

Gordon Zerbetz
7311 Augustine Drive
Anchorage, Alaska 99504

Dear Gordon:

This letter is to inform you of the status of nominations by the *Exxon Valdez* Oil Spill Trustee Council for appointment to the Public Advisory Group (PAG). We appreciate your desire to continue to serve on this body. A number of excellent applications and nominations for membership on the PAG were received, and not all could be selected. Although your name was not chosen as one of those that have been put forward for official appointment for this term, I want you to know that all your past efforts and contributions have been greatly appreciated by the Trustee Council. I encourage you to continue to stay involved in the restoration process and consider applying again in two years.

Again thank you for your past involvement in the restoration process.

Sincerely,


Molly McCammon
Executive Director

Exxon Valdez Oil Spill Trustee Council

645 G Street, Suite 401, Anchorage, AK 99501-3451 907/278-8012 fax: 907/276-7178



December 18, 1996

Alex Chartier
P.O. Box 153
Seldovia, Alaska 99663

Dear Ms. Chartier:

This letter is to inform you of the status of nominations by the *Exxon Valdez* Oil Spill Trustee Council for appointment to the Public Advisory Group (PAG). We appreciate your desire to serve on this body. A number of excellent applications and nominations for membership on the PAG were received, and not all could be selected. Although your name was not chosen as one of those that have been put forward for official appointment for this term, I encourage you to continue to stay involved in the restoration process and consider applying again in two years.

Thank you for your time and interest in the restoration effort.

Sincerely,

A handwritten signature in black ink, appearing to read 'Molly McCammon'.

Molly McCammon *for*
Executive Director

Federal Trustees

U.S. Department of Interior
U.S. Department of Agriculture
National Oceanic and Atmospheric Administration

State Trustees

Alaska Department of Fish and Game
Alaska Department of Environmental Conservation
Alaska Department of Law

Exxon Valdez Oil Spill Trustee Council

645 G Street, Suite 401, Anchorage, AK 99501-3451 907/278-8012 fax: 907/276-7178



December 18, 1996

L.J. Evans
P.O. Box 80073
Fairbanks, Alaska 99708

Dear L.J.:

This letter is to inform you of the status of nominations by the *Exxon Valdez* Oil Spill Trustee Council for appointment to the Public Advisory Group (PAG). We appreciate your desire to serve on this body. A number of excellent applications and nominations for membership on the PAG were received, and not all could be selected. Although your name was not chosen as one of those that have been put forward for official appointment for this term, I encourage you to continue to stay involved in the restoration process and consider applying again in two years.

Thank you for your time and interest in the restoration effort.

Sincerely,

Molly McCammon
Executive Director

*L.J. - For the most part,
the PAG members were
reappointed with only a
couple of seats changed.... In any
case, it was great to see
you at Rebecca's. Tell Michael
Jim stuck in the submarine
(Myst)...
Happy Holidays
Erin*

Exxon Valdez Oil Spill Trustee Council

645 G Street, Suite 401, Anchorage, AK 99501-3451 907/278-8012 fax: 907/276-7178



December 18, 1996


Albert Franzmann
P.O. Box 666
Soldotna, Alaska 99669

Dear Mr. Franzmann:

This letter is to inform you of the status of nominations by the *Exxon Valdez* Oil Spill Trustee Council for appointment to the Public Advisory Group (PAG). We appreciate your desire to serve on this body. A number of excellent applications and nominations for membership on the PAG were received, and not all could be selected. Although your name was not chosen as one of those that have been put forward for official appointment for this term, I encourage you to continue to stay involved in the restoration process and consider applying again in two years.

Thank you for your time and interest in the restoration effort.

Sincerely,


Molly McCammon
Executive Director

Exxon Valdez Oil Spill Trustee Council

645 G Street, Suite 401, Anchorage, AK 99501-3451 907/278-8012 fax: 907/276-7178



December 18, 1996

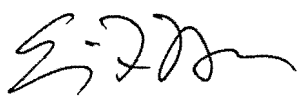
Gary Gustafson
4928 Marion Avenue
Anchorage, Alaska 99508

Dear Mr. Gustafson:

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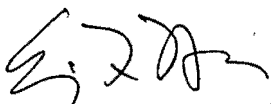
Phillip Hardie, Jr.
3515 Fordham Drive
Anchorage, Alaska 99508-4557

Dear Mr. Hardie:

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Molly McCammon
Executive Director

Federal Trustees

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U.S. Department of Agriculture
National Oceanic and Atmospheric Administration

State Trustees

Alaska Department of Fish and Game
Alaska Department of Environmental Conservation
Alaska Department of Law

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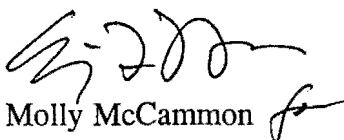
Henry Kroll
P.O. Box 181
Seldovia, Alaska 99663

Dear Mr. Kroll:

This letter is to inform you of the status of nominations by the *Exxon Valdez* Oil Spill Trustee Council for appointment to the Public Advisory Group (PAG). We appreciate your desire to serve on this body. A number of excellent applications and nominations for membership on the PAG were received, and not all could be selected. Although your name was not chosen as one of those that have been put forward for official appointment for this term, I encourage you to continue to stay involved in the restoration process and consider applying again in two years.

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Executive Director

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Exxon Valdez Oil Spill Trustee Council

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December 18, 1996

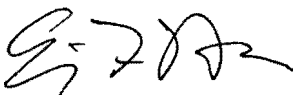
Theodore Merrell
3240 Fritz Cove Road
Juneau, Alaska 99801

Dear Mr. Merrell:

This letter is to inform you of the status of nominations by the *Exxon Valdez* Oil Spill Trustee Council for appointment to the Public Advisory Group (PAG). We appreciate your desire to serve on this body. A number of excellent applications and nominations for membership on the PAG were received, and not all could be selected. Although your name was not chosen as one of those that have been put forward for official appointment for this term, I encourage you to continue to stay involved in the restoration process and consider applying again in two years.

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Exxon Valdez Oil Spill Trustee Council

645 G Street, Suite 401, Anchorage, AK 99501-3451 907/278-8012 fax: 907/276-7178



December 18, 1996

Scott Novak
705 8th Street
Cordova, Alaska 99574

Dear Mr. Novak:

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Molly McCammon
Executive Director

Exxon Valdez Oil Spill Trustee Council

645 G Street, Suite 401, Anchorage, AK 99501-3451 907/278-8012 fax: 907/276-7178



December 18, 1996


Paul Panamarioff
P.O. Box 12
Ouzinkie, Alaska 99644

Dear Mr. Panamarioff:

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Executive Director

Exxon Valdez Oil Spill Trustee Council

645 G Street, Suite 401, Anchorage, AK 99501-3451 907/278-8012 fax: 907/276-7178



December 17, 1996

Rupert Andrews
9416 Long Run Drive
Juneau, Alaska 99801-8808

Dear Rupe:

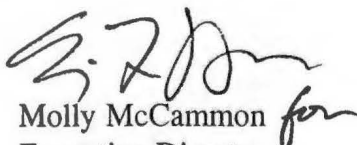
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In the meantime, if you have any questions, please don't hesitate to contact me or Doug Mutter, the Designated Federal Officer (907/271-5011).

Sincerely,


Molly McCammon
Executive Director

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Exxon Valdez Oil Spill Trustee Council

645 G Street, Suite 401, Anchorage, AK 99501-3451 907/278-8012 fax: 907/276-7178



December 17, 1996

Tori Baker
Cordova District Fishermen United
P.O. Box 1159
Cordova, Alaska 99574

Dear Torie:

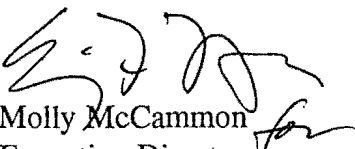
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Executive Director

Exxon Valdez Oil Spill Trustee Council

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December 17, 1996

Christopher Beck
1786 Forest Park Drive
Anchorage, Alaska 99517

Dear Chris:

This is to notify you that you have been selected for nomination by the *Exxon Valdez* Oil Spill Trustee Council for appointment to the Public Advisory Group (PAG). Official appointments will be made by the Secretary of the Interior within the next few weeks.

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Executive Director

Exxon Valdez Oil Spill Trustee Council

645 G Street, Suite 401, Anchorage, AK 99501-3451 907/278-8012 fax: 907/276-7178



December 17, 1996

Pamela Brodie
P.O. Box 1139
Homer, Alaska 99603

Dear Pamela:

This is to notify you that you have been selected for nomination by the *Exxon Valdez* Oil Spill Trustee Council for appointment to the Public Advisory Group (PAG). Official appointments will be made by the Secretary of the Interior within the next few weeks.

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Molly McCammon
Executive Director

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Exxon Valdez Oil Spill Trustee Council

645 G Street, Suite 401, Anchorage, AK 99501-3451 907/278-8012 fax: 907/276-7178



December 17, 1996

Sheri Buretta
Chugach Regional Resource Commission
4201 Tudor Centre Drive
Anchorage, Alaska 99508

Dear Sheri:

This is to notify you that you have been selected for nomination by the *Exxon Valdez* Oil Spill Trustee Council for appointment to the Public Advisory Group (PAG). Official appointments will be made by the Secretary of the Interior within the next few weeks.

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Executive Director

Exxon Valdez Oil Spill Trustee Council

645 G Street, Suite 401, Anchorage, AK 99501-3451 907/278-8012 fax: 907/276-7178



December 17, 1996

Dave Cobb, Mayor
City of Valdez
P. O. Box 307
Valdez, Alaska 99686

Dear Dave:

This is to notify you that you have been selected for nomination by the *Exxon Valdez* Oil Spill Trustee Council for appointment to the Public Advisory Group (PAG). Official appointments will be made by the Secretary of the Interior within the next few weeks.

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Exxon Valdez Oil Spill Trustee Council

645 G Street, Suite 401, Anchorage, AK 99501-3451 907/278-8012 fax: 907/276-7178



December 17, 1996

Chip Dennerlein
1627 West 14th Street
Anchorage, Alaska 99501

Dear Chip:

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Molly McCammon
Executive Director

Exxon Valdez Oil Spill Trustee Council

645 G Street, Suite 401, Anchorage, AK 99501-3451 907/278-8012 fax: 907/276-7178



December 17, 1996

Eleanor Huffines
National Outdoor Leadership School
P.O. Box 981
Palmer, Alaska 99645

Dear Eleanor:

This is to notify you that you have been selected for nomination by the *Exxon Valdez* Oil Spill Trustee Council for appointment to the Public Advisory Group (PAG). Official appointments will be made by the Secretary of the Interior within the next few weeks.

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Executive Director

Exxon Valdez Oil Spill Trustee Council

645 G Street, Suite 401, Anchorage, AK 99501-3451 907/278-8012 fax: 907/276-7178



December 17, 1996

James King
1700 Branta Road
Juneau, Alaska 99801-7918

Dear Jim:

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Exxon Valdez Oil Spill Trustee Council

645 G Street, Suite 401, Anchorage, AK 99501-3451 907/278-8012 fax: 907/276-7178



December 17, 1996

Mary McBurney
1919 Spenard Road
Anchorage, Alaska 99503-1741

Dear Mary:

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Executive Director

Exxon Valdez Oil Spill Trustee Council

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December 17, 1996

Vern McCorkle
501 West Northern Lights Boulevard, Suite 100
Anchorage, Alaska 99503

Dear Vern:


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Executive Director

Exxon Valdez Oil Spill Trustee Council

645 G Street, Suite 401, Anchorage, AK 99501-3451 907/278-8012 fax: 907/276-7178



December 17, 1996

Charles P. Meacham
533 Main Street
Juneau, Alaska 99801-1153

Dear Chuck:

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Executive Director

Exxon Valdez Oil Spill Trustee Council

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December 17, 1996

Brenda Schwantes
Kodiak Area Native Association
3449 Rezanof Drive, East
Kodiak, Alaska 99615-6928

Dear Brenda:

This is to notify you that you have been selected for nomination by the *Exxon Valdez* Oil Spill Trustee Council for appointment to the Public Advisory Group (PAG). Official appointments will be made by the Secretary of the Interior within the next few weeks.

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Molly McCammon
Executive Director

Exxon Valdez Oil Spill Trustee Council

645 G Street, Suite 401, Anchorage, AK 99501-3451 907/278-8012 fax: 907/276-7178



December 17, 1996

Stacy Studebaker
P.O. Box 90
Kodiak, Alaska 99615

Dear Ms. Studebaker:


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Exxon Valdez Oil Spill Trustee Council

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December 17, 1996

Charles Totemoff, President & CEO
Chenega Corporation
3333 Denali Street, Suite 260
Anchorage, Alaska 99503-4038

Dear Chuck:

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Molly McCammon
Executive Director

Exxon Valdez Oil Spill Trustee Council

645 G Street, Suite 401, Anchorage, AK 99501-3451 907/278-8012 fax: 907/276-7178



December 17, 1996

Howard Valley
P. O. Box 8051
Kodiak, Alaska 99615

Dear Mr. Valley:

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Executive Director

Exxon Valdez Oil Spill Trustee Council

645 G Street, Suite 401, Anchorage, AK 99501-3451 907/278-8012 fax: 907/276-7178



December 17, 1996

Nancy Yeaton
Nanwalek Traditional Council
P.O. Box 8028
Nanwalek, Alaska 99603

Dear Ms. Yeaton:

This is to notify you that you have been selected for nomination by the *Exxon Valdez* Oil Spill Trustee Council for appointment to the Public Advisory Group (PAG). Official appointments will be made by the Secretary of the Interior within the next few weeks.

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Executive Director

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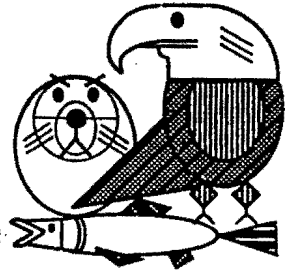
Alaska Department of Fish and Game
Alaska Department of Environmental Conservation
Alaska Department of Law

Exxon Valdez Oil Spill Trustee Council

Restoration Office

645 G Street, Suite 401, Anchorage, Alaska 99501-3451

Phone: (907) 278-8012 Fax: (907) 276-7178



MEMORANDUM

TO: Marla Huss (attn: Cindy Smith)
FROM: Eric F. Myers, Director of Operations
DATE: 12/17/96
SUBJ: Reappointments to the Trustee Council Public Advisory Group

Cindy —

For your reference, please find attached a list of the Public Advisory Group (PAG) members recently reappointed by the *Exxon Valdez* Oil Spill Trustee Council.

As you may be aware, the Trustee Council PAG, initially established in 1992, is chartered through the U.S. Department of the Interior. The 17 member PAG was established pursuant to the court-approved terms of the *Exxon Valdez* oil spill civil settlement with Exxon to assist the Trustee Council with its restoration program efforts.

The term of the USDOl-chartered PAG membership is two years and the Trustee Council recently reappointed PAG members to new terms at its most recent December 6th meeting. Most all of the members were simply reappointed, with only a few seats changing. Chief of Staff Jim Ayers (as the former Executive Director of the Trustee Council) is familiar with the PAG and Molly McCammon (current Executive Director of the Council) consulted with Jim prior to the reappointments.

It is my understanding that Marla is on leave and won't be back until after the new year. If she has any questions, please have her call. Thanks.

Trustee Agencies

State of Alaska: Departments of Fish & Game, Law, and Environmental Conservation

United States: National Oceanic and Atmospheric Administration, Departments of Agriculture and Interior

1996-1998 Public Advisory Group Selections

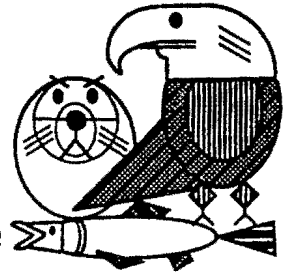
Mary McBurney	Anchorage	Aquaculture
Torie Baker	Cordova	Commercial Fishing
Eleanore Huffines	Palmer	Commercial Tourism
Chip Dennerlein	Anchorage	Conservation
Pam Brodie	Homer	Environmental
Howard Valley	Kodiak	Forest Products
Dave Cobb	Valdez	Local Government
Chuck Totemoff	Anchorage	Native Landowner
Stacey Studebaker	Kodiak	Recreation User
Rupert Andrews	Juneau	Sport Hunt/Fish
Nancy Yeaton	Nanwalek	Subsistence
Chuck Meacham	Juneau	Science/Academic
Chris Beck	Anchorage	Public at Large
Sheri Buretta	Anchorage	"
Jim King	Juneau	"
Vern McCorkle	Anchorage	"
Brenda Schwantes	Kodiak	"

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MEMORANDUM

TO: Annalee McConnell
Office of Management and Budget

FROM: Molly McCammon
Executive Director

Date: December 17, 1996

RE: RPL 10-7-4038
Appropriation Citation: Chapter 123, SLA 96, page 44, line 1
Statutory Citation: AS 37.14.405(b)

On behalf of the Department of Natural Resources, authority to receive and expend \$525,000 from *Exxon Valdez* oil spill settlement trust funds is requested for acquisition of two small parcels.

The acquisition of land is a means of restoring not only injured resources, but also the services (human uses) dependent on those resources. The small parcel program was initiated in the spring of 1994 and provides landowners the opportunity to nominate parcels at fair market value. Parcels are evaluated and ranked according to the potential benefits that purchase would provide to injured resources and services.

At the direction of the Trustee Council, an agency receives authorization to enter preliminary negotiations with the landowner and determine the fair market value of the parcel. Once the fair market appraisal is completed and accepted by both federal and state review appraisers, final Trustee Council approval is required prior to purchase. Consistent with the *Exxon Valdez Oil Spill Trustee Council Procedures*, and after public review and comment, the Trustee Council has authorized funds to acquire the Horseshoe Bay parcel (PWS11) and the Ninilchik parcel (KEN 1005).

Based on the appraised fair market value, the sum of \$475,000 is requested for acquisition of the Horseshoe Bay parcel. This parcel is located on LaTouche Island and is surrounded by the Horseshoe Bay State Marine Park. The parcel consists of 315 acres and contains 1600 feet of bay frontage. In addition, the mouth of an anadromous fish stream is located on the parcel.

Trustee Agencies

State of Alaska: Departments of Fish & Game, Law, and Environmental Conservation
United States: National Oceanic and Atmospheric Administration, Departments of Agriculture and Interior

The Horseshoe Bay State Marine Park is used by residents of nearby Chenega Bay and residents and workers at the San Juan Hatchery, as well as the general public. Use increases during the hunting season and reaches its peak during commercial fishery openings. Since the best anchorage in the bay is immediately adjacent to this parcel, acquisition will ensure public access to the uplands and historic sites on LaTouche Island via existing trails. In addition, the parcel will be managed to protect pink salmon that spawn in the stream.

Based on the appraised fair market value, the sum of \$50,000 is requested for acquisition of the Ninilchik parcel. The Ninilchik parcel is located immediately adjacent to the Ninilchik State Recreation Area and consists of 16 acres.

The Ninilchik River runs through the parcel and is spawning ground for pink salmon and Dolly Varden. Current use threatens to damage habitat by trampling streambanks and denuding them of vegetation. Acquisition of the parcel will allow agencies to better manage streambank fishing and thereby protect the habitat.

In accordance with AS 37.14.405, authority to receive and expend is requested conditioned on compliance with the program review provision of AS 37.07.080(h). Funding was not requested in the budget approved by the Legislature, as the evaluation and appraisal had not been completed for these parcels. Approval of this request will not require the expenditure of state general funds.

As a capital project, authority to receive and expend subject to AS 37.25.020 is requested. If you have any questions about this RPL, please do not hesitate to contact me at 278-8012.

cc: Nico Bus, ADNR
Carol Fries, ADNR

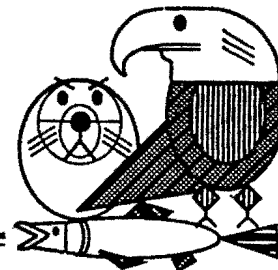
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December 13, 1996

TEK Advisory Group Members:

Thank you for your willingness to serve on the Trustee Council's traditional ecological knowledge (TEK) advisory group. We are confident that each of you will make an important contribution to the development and implementation of the Council's TEK effort.

As discussed at the December 3 meeting of the advisory group, Drs. Pam Colorado and Henry Huntington, who have been hired as the TEK Specialists, are in the process of preparing a draft document describing the work they propose to do this fiscal year. You should receive a review copy of the draft no later than January 1, 1997. A meeting of the advisory group to discuss the draft will be held on **January 21, 1997 at 10:00 a.m.** here at the Restoration Office. If there is a need for a preliminary meeting earlier in January to walk through the work plan or identify issues for additional deliberation prior to the January 21st meeting, a teleconference can be arranged.

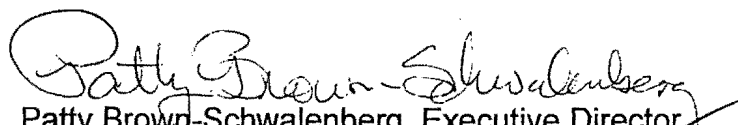
We would like to announce that Rita Miraglia, the oil spill coordinator for ADF&G's Subsistence Division, will be serving as staff to the advisory group. Among other tasks, she will distribute the TEK Specialists' draft work plan and handle arrangements for the January meeting. Please contact Rita directly for more information or if you have questions about upcoming activities. At the January 21st meeting, you should also plan to select a chair or co-chairs for the advisory group.

For your information, enclosed is a copy of the Detailed Project Description outlining the TEK project's objectives and the role of the advisory group, and a contact list of advisory group members and staff. Also enclosed is a copy of the Protocols for Including Indigenous Knowledge in the Exxon Valdez Oil Spill Restoration Process, which were adopted by the Trustee Council at its December 6, 1996 meeting.

We look forward to seeing you in January.

Sincerely,


Molly McCammon, Executive Director
Exxon Valdez Oil Spill Trustee Council


Patty Brown-Schwalenberg, Executive Director
Chugach Regional Resources Commission

cc: Henry Huntington
Pam Colorado
Rita Miraglia

Trustee Agencies

State of Alaska: Departments of Fish & Game, Law, and Environmental Conservation
United States: National Oceanic and Atmospheric Administration, Departments of Agriculture and Interior

8-22-96 revision
Approved by TC

Traditional Ecological Knowledge

Project Number: 97052B

Restoration Category: General Restoration

Proposer: Chugach Regional Resources Commission

Lead Trustee Agency: ADF&G, Division of Subsistence

Cooperating Agencies: No other agencies will receive funding through this project

Alaska SeaLife Center:

Duration: 1 year; may be continued

Cost FY 97: \$94,500

Cost FY 98:

Cost FY 99:

Cost FY 00:

Cost FY 01:

Cost FY 02:

Geographic Area: Spill-area wide

Injured Resource/Service All Resources/Services

ABSTRACT

The project would fund a TEK (Traditional Ecological Knowledge) Specialist to (1) compile a reference guide to existing TEK data on resources injured by the oil spill, (2) provide technical assistance to restoration project PIs who plan to use, or for whom it would be appropriate to use, TEK, (3) serve as a contact point for spill area communities, the community facilitators and spill area wide coordinator hired under Project /052A, and principal investigators on issues related to TEK, and (4) evaluate the feasibility of

developing a comprehensive TEK database. The TEK specialist would work under the guidance of an Advisory Group.

INTRODUCTION

This project would continue work begun under the Community Involvement and Use of Traditional Knowledge Project (/052). Much progress has been made in making Principal Investigators aware of the availability and value of traditional knowledge. This project would develop a way to use traditional knowledge in the restoration of injured resources currently being researched through EVOS Trustee Council funded projects. This project would provide funds to contract with a Traditional Ecological Knowledge (TEK) Specialist. The TEK Specialist would work under the guidance of an advisory group, composed of a diverse group of individuals familiar with both TEK and the restoration program. In FY 97 the TEK specialist would (1) compile a reference guide to existing TEK data on resources injured by the oil spill, (2) provide technical assistance to restoration project PIs who plan to use, or for whom it would be appropriate to use, TEK, (3) serve as a contact point for spill area communities, the community facilitators and spill area wide coordinator hired under Project /052A, and principal investigators on issues related to TEK, and (4) evaluate the feasibility of developing a comprehensive TEK database.

NEED FOR THE PROJECT

A. Statement of Problem

Through the efforts of the Community Involvement project (/052), the principal investigators have been made aware of the value of traditional ecological knowledge for their projects. Traditional ecological knowledge was a major theme of the annual Restoration Science Workshop in January 1996. Principal investigators have requested assistance in the collection of traditional knowledge. This project would provide that assistance.

B. Rationale/Link to Restoration

People living in the spill area have detailed knowledge about the condition of resources, which can add to data collected as part of scientific studies and may enhance the success of the restoration effort. This includes knowledge of the historic population sizes and ranges of many of the species injured by the spill, as well as observations concerning the diet,

behavior and interrelationships of injured species. This information can help researchers evaluate the injury and recovery status of these species.

C. Location

Spill area wide, including Prince William Sound, the lower Kenai Peninsula, Kodiak and the Alaska Peninsula

COMMUNITY INVOLVEMENT

Community involvement is a major emphasis of this project. The project would foster communication between the principal investigators and residents of the communities impacted by the oil spill. The TEK Specialist would work closely with the Spill Area Wide Community Involvement Coordinator and the local facilitators hired under the Community Involvement project (/052A) and with the Youth Area Watch (Project /210) students.

PROJECT DESIGN

A. Objectives

1. Hire (or contract with) a TEK specialist and establish a TEK Advisory Group to provide guidance and direction for the Trustee Council's TEK effort.
2. Establish a contact point for spill area communities, the community facilitators and spill area wide coordinator hired under Project /052A, and principal investigators on issues related to TEK.
3. Develop a reference guide to existing agency and other TEK data and databases on resources injured by the oil spill.
4. Provide technical assistance to restoration project PIs in the collection, interpretation, presentation (including presentation of study findings and results to participating communities), and archiving of TEK.
5. Evaluate the feasibility of and make recommendations to the Executive Director and Trustee Council on developing a comprehensive TEK database of resources injured by the oil spill. The evaluation should include a review of various computer applications for databases, and the value to restoration of incorporating ADF&G's and other existing files into a database. The recommendations should

also address mechanisms for including TEK data from individual EVOS research projects in a comprehensive database.

B. Methods

A TEK Specialist will be hired (or contracted with) and will work under the guidance of an Advisory Group, the composition of which is described below. ADF&G/Subsistence Division will also be involved in the project.

Interaction between the TEK Specialist and the Principal Investigators may occur in one of two ways. Either the PI will approach the TEK Specialist with a request for information, or the TEK Specialist will approach a PI to suggest the use of traditional knowledge. In either case, if both agree a TEK component would be of benefit to restoration, the TEK Specialist and the Principal Investigator will work together to formulate a research tool in order to elicit the desired information. In FY 97, work will be limited to existing restoration projects. The TEK Specialist will work closely with the Spill Area Wide Community Involvement Coordinator (Project /052A) to ensure appropriate community involvement in the TEK effort.

The TEK effort may be summarized as three primary tasks:

1) Identify Existing Data

A significant amount of data on traditional ecological knowledge has already been collected by state and federal agencies, universities, regional native organizations, and other entities. This project will produce a reference guide of existing data in order to make it more easily accessible and useable. The ADF&G Subsistence Division will develop the reference guide in consultation with the TEK Specialist. In addition, the TEK specialist will evaluate the feasibility of and develop recommendations for the Executive Director and the Trustee Council on bringing existing TEK data into a single comprehensive database.

2) Collect "New" Data

If the information needed by a Principal Investigator is not found in the existing data, the TEK Specialist will work with the Principal Investigator to formulate a research tool to gather the desired information. In developing this tool, the TEK Specialist will consult with the Advisory Group, and the relevant local facilitator(s) and village council(s).

3) Analyze/Synthesize Data

Once the data is collected, the TEK Specialist will work with the Principal Investigator to interpret and present the data, including presenting the data to the respondent communities.

TEK Specialist: Duties and Responsibilities

1. Serve as a contact point for spill area communities, the community facilitators and spill area wide coordinator hired under Project /052A, and principal investigators on issues related to TEK.
2. Work with ADF&G Subsistence Division to develop a reference guide to existing agency and other TEK data and databases, including contact persons, addresses, telephone numbers, accessibility, and database format.
3. Inform principal investigators and communities of the existence and objectives of this project.
4. (A) In regard to FY 97 restoration projects, identify those projects for which TEK would have application and value to researchers and work with those project PIs to develop a TEK component for their projects. (B) In regard to FY 98 restoration proposals, initiate contact with PIs at the Annual Restoration Workshop to discuss including TEK components in their project proposals. Review all proposals submitted for FY 98 and develop recommendations for Executive Director re: TEK.
5. Assist PIs in the design and implementation of questionnaires and other research tools to be used in the collection of TEK, the development of data collection methods, and the development of research agreements between the PI and village council as proposed in the draft TEK protocols.
6. Work with the Community Facilitators in identifying residents having specialized knowledge on a particular topic of interest to the principal investigators, and assist in data collection as appropriate.
7. Assist the PIs in interpreting the TEK data collected as well as any data brought in from existing records, and in communicating study findings and results back to participating communities.
8. Evaluate the feasibility of and make recommendations to the Executive Director and Trustee Council on developing a comprehensive TEK database of resources injured by the oil spill. The evaluation should include a review of various computer applications for databases, and the value to restoration of incorporating ADF&G's and other existing files into a database. The recommendations should

also address mechanisms for including TEK data from individual EVOS research projects in a comprehensive database.

9. Consult regularly with the Advisory Group to obtain feedback, guidance, and direction on the TEK Program as it develops.

Advisory Group: Composition and Duties

The Advisory Group shall be made up of a diverse group of individuals who are familiar with both TEK and the EVOS restoration program. Members will be jointly selected by the Executive Director of CRRC and the Executive Director of the Trustee Council, and will represent the following:

1. Spill Area Wide Community Coordinator (Project /052A)
2. Two research scientists involved in the EVOS restoration process
3. Two Community Facilitators (Project /052A)
4. Federal Trustee Council agency representative
5. State Trustee Council representative
6. Regional native organization representative
7. One other person with expertise in TEK

The advisory group will make a recommendation to the Executive Director of CRRC, from a list of qualified applicants, on who should be hired as the TEK Specialist. The advisory group will meet as needed (the budget is based on four quarterly meetings in person, and teleconference meetings every other month) to provide the TEK Specialist with guidance and feedback on the progress and development of the project. The advisory group will also provide feedback to the Division of Subsistence, ADF&G on the TEK training manual developed under Project 96052. The advisory group members will work on a voluntary basis. Travel costs will be provided out of this project.

ADF&G/Subsistence Division: Responsibilities

- Develop, in consultation with the TEK Specialist, a reference guide to existing TEK data (and databases) on injured resources;
- Provide general expertise on subsistence uses and oil spill impacts on these uses to assist in the design of research and data gathering instruments, and in the interpretation of study results; and
- Contribute to the annual project report.

C. Cooperating Agencies & Organizations

National Park Service, other Trustee Council agencies

SCHEDULE

A. Measurable Project Tasks for FY97 (October 1, 1996-September 30, 1997)

October 1, 1996	Contract between ADF&G and CRRC renewed
October 1996	TEK Advisory Group in place
	TEK Specialist hired
November 1996	TEK Specialist initiate contacts with PIs with TEK components in their FY 97 projects
February 1997	Reference guide to existing TEK data completed
January 1997	TEK Specialist attend Annual Restoration Workshop and make contacts with PIs re: including TEK component in FY 98 proposals
May 1997	TEK Specialist review all proposals submitted for FY 98 and develop recommendations for Executive Director re: TEK
July 1997	Review all projects recommended for funding in FFY '98 to determine which would benefit from a TEK component

B. Project Milestones and Endpoints

October 1996	Advisory Group established and TEK Specialist hired
February 1997	Reference guide to existing agency and other TEK databases completed
Ongoing	Providing technical assistance to PIs regarding the collection, interpretation, and presentation of TEK

C. Completion Date

April 15, 2002

PUBLICATIONS AND REPORTS

ADF&G/Subsistence Division and the TEK Specialist will produce a reference guide to existing agency and other TEK data.

An annual report on the development, progress, and accomplishments of this TEK project will be provided to the Trustee Council on April 15, 1998.

PROFESSIONAL CONFERENCES

Participation in professional conferences is not anticipated in the first year of the project.

COORDINATION AND INTEGRATION OF RESTORATION EFFORT

This project is focused more than most on the coordination and integration of the restoration effort. The TEK Specialist will work with the Principal Investigators of other projects, providing a service that is expected to benefit those projects and the restoration effort as a whole. This project will also be closely coordinated with the Community Involvement Project (97052A), and the Youth Area Watch Project (97210).

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TEK ADVISORY GROUP
(Project 97052B)

Spill Area Wide Coordinator
Martha Vlasoff

Three Research Scientists Involved in the EVOS Process
Stan Senner, Trustee Council Science Coordinator
Bruce Wright, NOAA
Kate Wynne, University of Alaska

Two Community Facilitators
Walter Meganack, Jr., Port Graham
Bob Henrichs, Eyak Native Village, Cordova

Federal Trustee-Agency Representative
Don Callaway, NPS/DOI

State Trustee-Agency Representative
Jim Fall, Subsistence Division, ADF&G

Regional Native Organization Representative
Carl Hild, RurALCap

Two Other People with Expertise in TEK
Pat Cochrane, AFN
Marie Fernandez-Gimenez

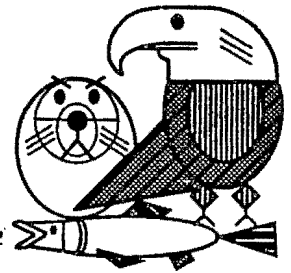
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Exxon Valdez Oil Spill Trustee Council

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PROTOCOLS FOR INCLUDING INDIGENOUS KNOWLEDGE IN THE EXXON VALDEZ OIL SPILL RESTORATION PROCESS

Exxon Valdez Oil Spill Trustee Council

December 6, 1996

Introduction, Purpose, and Objectives

Indigenous knowledge, including traditional ecological knowledge (TEK), provides an important perspective that can help the *Exxon Valdez* Oil Spill (EVOS) restoration effort by providing information and analysis of the environment and resources affected by the oil spill. Fishers, hunters, and gatherers have detailed descriptions of animal behavior and ecology. For many species, subsistence harvesters possess the following information:

- where it is found in any season
- what it eats
- how it moves from place to place
- when it mates
- where its young are born
- what preys on it
- how it protects itself
- how best to hunt for it
- population cycles

As astute observers of the natural world and as repositories of knowledge on the long term changes in their biophysical environment, practitioners of TEK can provide western biologists and ecologists with systematic and analytical observations that cover many years. While the differences between indigenous and scientific ways of knowing must be understood, restoration projects which successfully incorporate both perspectives will improve our collective understanding of the natural processes involved in the EVOS-affected region.

Working in and with Alaska Native communities requires sensitivity to their cultures, customs, traditions, and history. Successful working relationships are built on mutual respect and trust. The people of the communities of the oil spill area have experienced severe dislocations in their lives due to the *Exxon Valdez* Oil Spill. Subsistence and commercial fishing activities have been interrupted. Researchers and agency personnel

have used the communities as logistical bases. Disruptions related to the clean up, litigation, and increased bureaucratic demands have impacted the people's ability to conduct their daily business.

As a consequence of these stresses to their privacy and out of concern to preserve respect for their traditions, the Alaska Native communities of the area affected by the spill, assisted by EVOS staff, the Chugach Regional Resources Commission, and staff from Trustee Council agencies, have developed a series of protocols formalizing their relationship with outside researchers. These protocols provide a set of guidelines that will facilitate collaboration between Alaska Natives and scientists in meeting the goals of EVOS restoration. The protocols describe the major elements of a research partnership, but their application depends on common sense and courtesy. For those researchers planning to collaborate with local respondents in the collection of indigenous knowledge or whose proposed research directly affects subsistence activities, the EVOS Trustee Council requires consideration of these protocols prior to the initiation of research.

The objectives of these protocols are:

1. Provide guidelines for restoration project planning and review
2. Identify a set of ethical principles that establishes the parameters for a research partnership between Alaska Native communities and restoration scientists
3. Establish procedures for facilitating the collection of indigenous knowledge in restoration projects
4. Provide guidance on the development of research agreements between Alaska Native communities and researchers.

Protocols

1. Project planning and review.
 - a) In developing projects that include the collection and use of indigenous knowledge, researchers and community residents should keep in mind how this information will be used in improving restoration, management, education, and future research.
 - b) In designing restoration projects that include indigenous knowledge, researchers should recognize that local communities' knowledge of and interest in natural resources extends beyond the physical boundaries of the communities themselves to their harvest areas and beyond.
 - c) All research proposals involving indigenous knowledge will be reviewed by the TEK Specialist, the Community Facilitators, and village councils, and their

recommendations will be forwarded to the Executive Director. The overall program of research involving indigenous knowledge will be reviewed annually.

- d) Costs for incorporating TEK in a restoration project should be reflected in the project's budget.

2. Ethical principles. EVOS research which involves the collection and use of indigenous knowledge should follow the ethical principles for research listed below, which are based upon guidelines adopted by the Alaska Federation of Natives (AFN) Board of Directors in May 1993 (attached).

- e) Advise Alaska Native communities and people who are to be involved in or affected by the study of the purpose, goals, and time-frame of the research, the proposed data-gathering techniques, and the potential positive and negative implications and impacts of the research.
- f) Obtain the informed consent of the appropriate governing bodies and of individual participants
- g) Protect the knowledge and cultural/intellectual property of the Alaska Native people
- h) Seek to hire local community research assistants, and provide meaningful training to Alaska Native people to develop research skills, as appropriate
- i) Use the local Alaska Native language in oral communications whenever English is the second language
- j) Address issues of confidentiality of sensitive material
- k) Include Alaska Native viewpoints in the final study report
- l) Acknowledge the contributions of local research assistants and respondents in project reports
- m) Provide the communities with a summary of the major findings of the study in non-technical language.
- n) Provide copies of the annual and final project reports and related publications to the local library

The AFN Guidelines also include establishing and funding a "Native Research Committee." This may not be necessary in most EVOS Restoration Projects, depending upon the scope of the collection of indigenous knowledge and the wishes of the local community. Also, a new entity may not be necessary. For example, the traditional council may serve as such a review body. This point should be addressed in a "research agreement," as discussed in #4, below.

3. Facilitating the collection of indigenous knowledge.

- o) Initial contacts should be made through the TEK Specialist hired under Project 97052B to discuss the potential collection of indigenous knowledge in a project. The TEK Specialist will then pass the requests on to the communities concerned, and assist in establishing contact between the researcher and the Community Facilitator. The TEK Specialist will also inform the Spill Area Wide Coordinator of such requests.
- p) Once contact has been established through the TEK Specialist, researchers should use the Community Facilitator or designee as the primary community contact.
- q) The Community Facilitator or designee will arrange for the researcher to meet with the Village Council (or other appropriate body authorized by the Village Council) to discuss the project's goals, scope, methods, expectations, benefits and risks. The Facilitator or designee will help orient the researcher to the community and its customs.

4. Research agreements.

The researcher and the Village Council (or other appropriate body authorized by the Village Council), assisted by the Community Facilitator, will work together to set up a research agreement. In developing the agreement, the following topics should be considered: the nature of the research, the form of consent that will be required, the need for local research assistants, compensation of participants, acknowledgments, anonymity and confidentiality of personal and other sensitive information, project monitoring, project review, final disposition of data, and provision of study results. The agreement may take one of several forms, such as a binding contract, a memorandum of agreement, a letter of agreement, or a village resolution. In any agreement, the responsibility and expectations of the researcher and the community should be spelled out. Terms and conditions should be clear and understandable to all parties, should not place unreasonable or unfair burdens on the participants, and must be consistent with applicable laws.

AFN BOARD ADOPTS POLICY GUIDELINES FOR RESEARCH

At its quarterly meeting in May, the AFN Board of Directors adopted a policy recommendation that includes a set of research principles to be conveyed to scientists who plan to conduct studies among Alaska Natives.

The principles will be sent to all Native organizations and villages in the hope that compliance by researchers will deter abuses such as those committed in the past which lately have come to light.

Alaska Natives share with the scientific community an interest in learning more about the history and culture of our societies. The best scientific and ethical standards are obtained when Alaska Natives are directly involved in research conducted in our communities and in studies where the findings have a direct impact on Native populations.

AFN recommends to public and private institutions that conduct or support research among Alaska Natives that they include a standard category of funding in their projects to ensure Native participation.

AFN conveys to all scientists and researchers who plan to conduct studies among Alaska Natives that they must comply with the following research principles:

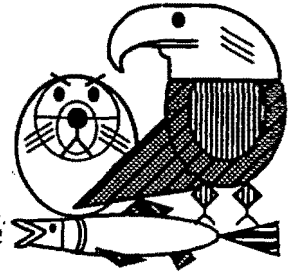
- * Advise Native people who are to be affected by the study of the purpose, goals, and time-frame of the research, the data-gathering techniques, the positive and negative implications and impacts of the research.
- * Obtain the informed consent of the appropriate governing body.
- * Fund the support of a Native Research Committee appointed by the local community to assess and monitor the research project and ensure compliance with the expressed wishes of Native people.
- * Protect the sacred knowledge and cultural/intellectual property of Native people.
- * Hire and train Native people to assist in the study.
- * Use Native language whenever English is the second language.
- * Guarantee confidentiality of surveys and sensitive material.
- * Include Native viewpoints in the final study.
- * Acknowledge the contributions of Native resource people.
- * Inform the Native Research Committee in a summary and in non-technical language of the major findings of the study.
- * Provide copies of studies to the local library.

Exxon Valdez Oil Spill Trustee Council

Restoration Office

645 G Street, Suite 401, Anchorage, Alaska 99501-3451

Phone: (907) 278-8012 Fax: (907) 276-7178



December 16, 1996

Leslie Holland-Bartels
Branch Chief, Marine Mammals & Fisheries
USGS - Biological Resources Division
1011 East Tudor Road
Anchorage, Alaska 99503

Re: Project 97025/Mechanisms of Impact and Potential Recovery of Nearshore
Vertebrate Predators (NVP): Avian Copredator Component

Leslie
Dear Ms. Holland-Bartels:

On December 6, 1996, the Exxon Valdez Oil Spill Trustee Council acted on deferred projects for Fiscal Year 1997. I am pleased to inform you that the Council approved funding in the amount of \$30,500 for Project 97025/Mechanisms of Impact and Potential Recovery of Nearshore Vertebrate Predators: Avian Copredator Component. This amount is in addition to the \$1,705,800 that the Council approved in August for the NVP project. The additional funding is for the final year of limited avian copredator work. I have enclosed a copy of the Chief Scientist's recommendation and the Council's decision on this project. Please note that final analysis of data collected through the avian copredator component is to be conducted within the funding cap of \$1,669,400 established for Project 98025.

This letter also serves as formal authorization to spend the funds approved by the Council in December. NEPA compliance requirements on the avian copredator component of Project 97025 have been met, and all other conditions necessary for project authorization have been satisfied. The funds must be spent consistent with the November 7 memorandum from Dr. Leslie Holland-Bartels to Dr. Robert Spies.

Trustee Agencies

State of Alaska: Departments of Fish & Game, Law, and Environmental Conservation
United States: National Oceanic and Atmospheric Administration, Departments of Agriculture and Interior

Thank you for your participation in the *Exxon Valdez* oil spill restoration program. We appreciate your continued interest, and look forward to working with you this coming year.

Sincerely,


Molly McCammon
Executive Director

Enclosure

cc: Lisa Thomas, DOI/BRD Liaison
MaryAnne Bishop, USFS, Avian Copredator PI
Dave Gibbons, USFS Liaison

mm/raw

DEFERRED PROJECTS: TRUSTEE COUNCIL 12/6/96 ACTION -- FY 97 WORK PLAN

Proj.No./ Research Cluster	ProjectTitle	Proposer	Lead Agency	New or Cont'd	FY97 Revised Request	Approved by Trustee Council	FY98 Estimate	FY99 Estimate	Total FY97-02 Estimate
97025 Nearshore Ecosystem	Mechanisms of Impact and Potential Recovery of Nearshore Vertebrate Predators (NVP)	L. Holland-Bartels, et al/NBS-DOI	DOI	Cont'd 3rd yr. 5 yr. project	\$1,821.5	\$1,736.3	\$1,669.4	\$450.0	\$3,855.7

Project Abstract

The Nearshore Vertebrate Predator project (NVP) makes an integrated assessment of trophic, health, and demographic factors across a suite of apex predators injured by the spill to determine mechanisms constraining recovery and to improve knowledge of the status of recovery. Primary hypotheses are: 1) Recovery of nearshore resources injured by EVOS is limited by recruitment processes; 2) Initial and/or residual oil in benthic habitats and in or on benthic prey organisms has had a limiting effect on the recovery of benthic foraging predators; and 3) EVOS-induced changes in populations of benthic prey species have influenced the recovery of benthic foraging predators.

Chief Scientist's Recommendation

This project uses an ecosystem approach to examine recovery of injured species in the nearshore ecosystem. It was reviewed in depth at a workshop in February 1996. Recently, the results from the avian copredator work have become available, indicating that some continuing work on Barrow's goldeneyes and gulls is advisable but that other aspects of the work can be safely eliminated. In addition, funds to prepare pre-NVP sea otter publications should be contingent on acceptance by the Chief Scientist of reports from Project MM6. Budget increases over previous projections for on-going components (i.e., not including the avian copredator component) were substantial, but the project proposers have reduced these budgets. Fund.

Trustee Council Action

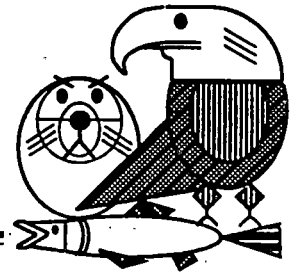
Fund, including an additional \$30,500 for the final year of limited avian copredator work which was deferred by the Trustee Council in August (final analyses in FY 98 will be conducted within the \$1,669,400 expected to be approved for FY 98). Funding for preparation of sea otter publications (\$10,000 approved in August) is contingent on acceptance by the Chief Scientist of the reports from Project MM6. The researchers conducting sea otter surveys under this project should explore ways of involving local sea otter hunters in their research/monitoring efforts. In general, the nearshore ecosystem, including intertidal habitat and organisms, was the area hardest hit by the oil spill. This project monitors recovery of intertidal organisms and closely linked vertebrate predators and addresses the question of whether continuing contamination is slowing recovery of vertebrate predators.

Exxon Valdez Oil Spill Trustee Council

Restoration Office

645 G Street, Suite 401, Anchorage, Alaska 99501-3451

Phone: (907) 278-8012 Fax: (907) 276-7178



December 16, 1996

Susan Reed
General Manager
Alaska Public Telecommunications, Inc.
3877 Providence Drive
Anchorage, Alaska 99508

Re: Project 97301/*The Alaska Laboratory Series* Television Pilot

Dear Ms. Reed:

On December 6, 1996, the *Exxon Valdez* Oil Spill Trustee Council acted on deferred projects for Fiscal Year 1997. The Council did not fund Project 97301/*The Alaska Laboratory Series* Television Pilot. I have enclosed a copy of the Chief Scientist's recommendation and the Council's decision on this project.

Instead of funding a one-hour television program, the Council will consider further the possibility of funding some elements of this proposal together with media footage to be used for various educational or outreach efforts. I would appreciate the opportunity to discuss this with you at your earliest convenience. I can be reached at 278-8012.

Sincerely,


Molly McCammon
Executive Director

Enclosure

cc: Claudia Slater, ADF&G Liaison

mm/raw

Trustee Agencies

State of Alaska: Departments of Fish & Game, Law, and Environmental Conservation
United States: National Oceanic and Atmospheric Administration, Departments of Agriculture and Interior

DEFERRED PROJECTS: TRUSTEE COUNCIL 12/6/96 ACTION -- FY 97 WORK PLAN

Proj.No./ Research Cluster	ProjectTitle	Proposer	Lead Agency	New or Cont'd	FY97 Revised Request	Approved by Trustee Council	FY98 Estimate	FY99 Estimate	Total FY97-02 Estimate
97301 Administration, Science Management, and Public Information	<u>The Alaska Laboratory Series</u> Television Pilot	S. Reed/Alaska Public Telecommunications , Inc.	ADFG	New 1st yr. 3 yr. project	\$105.7	\$0.0	\$0.0	\$0.0	\$0.0

Project Abstract

This project will create a television program that will document ongoing restoration and rehabilitation efforts in Prince William Sound and other spill affected areas. This program will be a pilot to launch The Alaska Laboratory, a national science education series on science and research in Alaska. Many episodes, including the pilot, will center on marine research, rehabilitation, and restoration efforts in Prince William Sound, the Kenai Peninsula and the Gulf of Alaska. APTI, in cooperation with the Alaska SeaLife Center, will produce and distribute the series through national networks, cable, and on Alaska's PBS stations.

Chief Scientist's Recommendation

The proposed television program could increase awareness, both within and beyond Alaska, about the restoration program. This particular proposal is more of an idea than a full proposal. I do not know what priority the Trustee Council wants to give to educational projects such as this television program, but the idea does have merit and may deserve going forward. If deemed appropriate by the Trustee Council, a more complete proposal should be invited.

Trustee Council Action

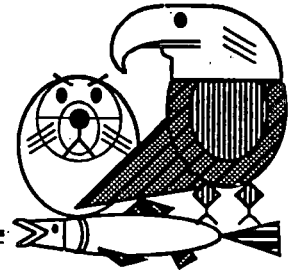
Do not fund this proposal. Consider further the possibility of funding some elements of this proposal together with media footage to be used for various educational/outreach efforts.

Exxon Valdez Oil Spill Trustee Council

Restoration Office

645 G Street, Suite 401, Anchorage, Alaska 99501-3451

Phone: (907) 278-8012 Fax: (907) 276-7178



December 13, 1996

Joan Braddock
UAF/IAB
POB 75700
Fairbanks, AK 99775-5700

Re: Project 97026/Report Writing: Integration of Microbial and Chemical Sediment Data

Dear Ms. Braddock:


I am pleased to inform you that the *Exxon Valdez* Oil Spill Trustee Council, at its December 6, 1996 meeting, approved funding in the amount of \$15,100 for Project 97026/Report Writing: Integration of Microbial and Chemical Sediment Data. Of this amount, \$14,100 is for completion of the final report and preparation of manuscripts on your hydrocarbon monitoring data integration project (Project 95026). The balance is to cover the Alaska Department of Environmental Conservation's costs in preparing a Reimbursable Services Agreement with the University for your work. I have enclosed a copy of the Chief Scientist's recommendation and the Council's decision on this project.

Before any funds may be spent on Project 97026, the lead agency for the project must provide documentation to the Executive Director showing that the requirements of the National Environmental Policy Act (NEPA) have been met. The lead agency must also execute a contract or RSA. For more information, please contact the lead agency representative:

Al Ewing, Deputy Commissioner
Alaska Department of Environmental Conservation
410 Willoughby Avenue, Suite 105, Juneau, Alaska 99801
Phone 907-465-5066/Fax 907-465-5070

Thank you for your participation in the *Exxon Valdez* oil spill restoration program. We appreciate your continued interest, and look forward to working with you this coming year.

Sincerely,


Molly McCammon
Executive Director

Enclosure

cc:Al Ewing, ADEC mm/raw

Trustee Agencies

State of Alaska: Departments of Fish & Game, Law, and Environmental Conservation
United States: National Oceanic and Atmospheric Administration, Departments of Agriculture and Interior

DEFERRED PROJECTS: TRUSTEE COUNCIL 12/6/96 ACTION -- FY 97 WORK PLAN

Proj.No./ Research Cluster	ProjectTitle	Proposer	Lead Agency	New or Cont'd	FY97 Revised Request	Approved by Trustee Council	FY98 Estimate	FY99 Estimate	Total FY97-02 Estimate
97026-CLO Nearshore Ecosystem	Report Writing: Integration of Microbial and Chemical Sediment Data	J. Braddock/UAF	ADEC	Cont'd 1st yr. 1 yr. project	\$15.1	\$15.1	\$0.0	\$0.0	\$15.1

Project Abstract

This project will provide funds to complete final data analysis and report writing begun under Project 95026/Hydrocarbon Monitoring: Integration of Microbial and Chemical Sediment Data. In FY 95, work began late on the project due to a delay in the processing of an RSA from the Department of Environmental Conservation to the University of Alaska Fairbanks. The \$15,100 requested here is an amount equal to the amount of FY 95 funds that lapsed before the project could be completed. The analysis of the combined microbial/chemical data sets will allow estimates of removal rates of hydrocarbons from contaminated sediments by biological processes.

Chief Scientist's Recommendation

Funding for additional analyses are recommended for completion of this project with the stipulation that the results of this work be published in open, peer-reviewed scientific literature.

Trustee Council Action

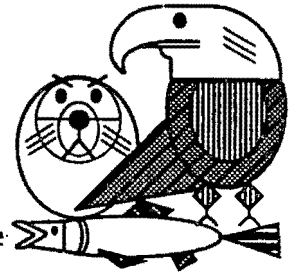
Fund. This project will conclude the analysis and report writing begun under Project 95026, and includes preparation of a manuscript for publication.

Exxon Valdez Oil Spill Trustee Council

Restoration Office

645 G Street, Suite 401, Anchorage, Alaska 99501-3451

Phone: (907) 278-8012 Fax: (907) 276-7178



December 16, 1996

Charles O. Swanton
Alaska Department of Fish & Game
Commercial Fish Management & Development Division
211 Mission Road
Kodiak, AK 99615

Re: Project 97251-CLO/Akalura Lake Sockeye Salmon Restoration

Dear Mr. Swanton:

On December 6, 1996, the *Exxon Valdez* Oil Spill Trustee Council acted on deferred projects for Fiscal Year 1997. I am pleased to inform you that the Council approved funding in the amount of \$43,700 for Project 97251-CLO/Akalura Lake Sockeye Salmon Restoration. I have enclosed a copy of the Chief Scientist's recommendation and the Council's decision on your project. Please note that this funding is for completion of field work as well as preparation of a final report on the project.

Before the project may begin, the lead agency for the project must provide documentation to the Executive Director showing that the requirements of the National Environmental Policy Act (NEPA) have been met. For more information, please contact the lead agency representative:

Claudia Slater
Alaska Department of Fish and Game
333 Raspberry Road, Anchorage, AK 99518
Phone 907-267-2336/Fax 907-267-2474

Trustee Agencies

State of Alaska: Departments of Fish & Game, Law, and Environmental Conservation
United States: National Oceanic and Atmospheric Administration, Departments of Agriculture and Interior

Thank you for your participation in the *Exxon Valdez* oil spill restoration program. We appreciate your continued interest, and look forward to working with you this coming year.

Sincerely,


Molly McCammon
Executive Director

Enclosure

cc: Claudia Slater, ADF&G

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DEFERRED PROJECTS: TRUSTEE COUNCIL 12/6 ACTION -- FY 97 WORK PLAN

Proj.No./ Research Cluster	ProjectTitle	Proposer	Lead Agency	New or Cont'd	FY97 Revised Request	Approved by Trustee Council	FY98 Estimate	FY99 Estimate	Total FY97-02 Estimate
97251-CLO <i>Sockeye Salmon</i>	Akalura Lake Sockeye Salmon Restoration	C. Swanton/ADFG	ADFG	Cont'd 1st yr. 1 yr. project	\$43.7	\$43.7	\$0.0	\$0.0	\$43.7

Project Abstract

This project will substantiate that the Akalura Lake sockeye salmon stock is naturally recovering from damage caused by the oil spill through continued increased production of sockeye salmon smolts. This will be accomplished if the size of the 1997 smolt emigration is at or above approximately 200,000 fish. Funding will be for a single year of field studies identical to what was conducted during 1996 and a report coupling previous findings (Project /258A-Sockeye Overescapement) with those of the 1997 field studies.

Chief Scientist's Recommendation

This project is appropriate for sustained salmon management. However, it is not clear that the current low escapements to Akalura Lake are related to the spill. Zooplankton levels and smolt production in the lake are at good levels as is marine survival of sockeye from Kodiak Island. Fund.

Trustee Council Action

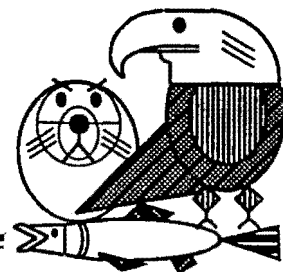
Fund for one year only, including field work and preparation of a final report. This project will conclude the smolt emigration studies on Akalura Lake (conducted under Project /258A), which will assist in determining the recovery status of the Akalura sockeye stock.

Exxon Valdez Oil Spill Trustee Council

Restoration Office

645 G Street, Suite 401, Anchorage, Alaska 99501-3451

Phone: (907) 278-8012 Fax: (907) 276-7178



December 16, 1996

Linda Scarborough
Alaska Department of Fish & Game
Subsistence Division
333 Raspberry Road
Anchorage, AK 99518

Jim McCullough
Alaska Department of Fish & Game
Division of Commercial Fish & Management
211 Mission Road
Kodiak, AK 99615-6399

Re: Project 97247/Kametolook River Coho Salmon Subsistence Project

Dear Ms. Scarborough and Mr. McCullough:

On December 6, 1996, the *Exxon Valdez* Oil Spill Trustee Council acted on deferred projects for Fiscal Year 1997. I am pleased to inform you that the Council approved funding in the amount of \$31,400 for Project 97247/Kametolook River Coho Salmon Subsistence Project. I have enclosed a copy of the Chief Scientist's recommendation and the Council's decision on your project.

This letter also serves as formal authorization to spend funds to implement the environmental compliance component of Project 97247. Once NEPA compliance documentation is received by my office, expenditure of additional project funds will be authorized.

Projects approved for FY 97 are approved in the expectation that they will be funded to their completion. However, the Trustee Council will annually evaluate a project's future funding needs based on its progress or results to date, overall restoration needs, and restoration funding constraints. The future years' funding projection for your project is \$13,800 in FY 98, \$14,100 in FY 99, \$14,400 in FY 2000, \$14,700 in FY 2001, and \$15,000 in FY 2002, at which time the coho run is expected to be self-sustaining.

Trustee Agencies

State of Alaska: Departments of Fish & Game, Law, and Environmental Conservation
United States: National Oceanic and Atmospheric Administration, Departments of Agriculture and Interior

Thank you for your participation in the *Exxon Valdez* oil spill restoration program. We appreciate your continued interest, and look forward to working with you this coming year.

Sincerely,


Molly McCammon
Executive Director

Enclosure

cc: Claudia Slater, ADF&G

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DEFERRED PROJECTS: TRUSTEE COUNCIL 12/6/96 ACTION -- FY 97 WORK PLAN

Proj.No./ Research Cluster	ProjectTitle	Proposer	Lead Agency	New or Cont'd	FY97 Revised Request	Approved by Trustee Council	FY98 Estimate	FY99 Estimate	Total FY97-02 Estimate
97247 Subsistence	Kametolook River Coho Salmon Subsistence Project	J. McCullough & L. Scarborough/ADFG	ADFG	New 1st yr. 6 yr. project	\$31.4	\$31.4	\$13.8	\$14.1	\$103.4

Project Abstract

This project is a continuation of a project funded in 1996 through the EVOS criminal settlement. In FY 96 and FY 97, an assessment of methods to restore the Kametolook River's coho run to historic levels will be conducted. Instream incubation boxes (designed to increase the egg-to-fry survival rate) and habitat manipulation (such as clearing blocked river channels) to improve access to spawning and rearing habitat will be evaluated. Actual installation of instream incubation boxes is scheduled for summer 1997.

Chief Scientist's Recommendation

This appears to be a reasonable replacement for subsistence that apparently declined after the spill. The revised proposal and subsequent correspondence with the state geneticist indicate that the proposal conforms to the state genetics guidelines and with EVOS supplementation criteria.

Trustee Council Action

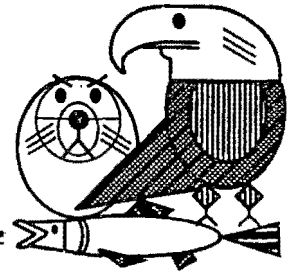
Fund. This project is designed to enhance a small coho salmon run near the Alaska Peninsula village of Perryville as a replacement for subsistence resources injured by the oil spill. The project has a strong community involvement component, including the hiring of Perryville residents as local assistants on the project. In the winter/spring of 1997 the evaluation of instream incubation boxes will be completed and an Environmental Assessment prepared, with installation of large capacity incubation boxes scheduled for summer 1997. Trustee Council funding is anticipated for six years (through 2002), at which time the run is expected to be self-sustaining.

Exxon Valdez Oil Spill Trustee Council

Restoration Office

645 G Street, Suite 401, Anchorage, Alaska 99501-3451

Phone: (907) 278-8012 Fax: (907) 276-7178



December 16, 1996

Dan Gillikin
USFS, Glacier Ranger District
POB 129
Girdwood, AK 99587

Re: Project 97256A/Sockeye Salmon Stocking at Columbia Lake
Project 97256B/Sockeye Salmon Stocking at Solf Lake

Dear Mr. Gillikin:

I am pleased to inform you that the *Exxon Valdez* Oil Spill Trustee Council, at its December 6, 1996 meeting, approved funding in the amount of \$50,000 for Project 97256B/Sockeye Salmon Stocking at Solf Lake. I have enclosed a copy of the Chief Scientist's recommendation and the Council's decision on this project.

No funds were approved for Project 97256A/Sockeye Salmon Stocking at Columbia Lake, based on the results of the feasibility study performed by the Alaska Department of Fish and Game and the U.S. Forest Service.

Before any funds may be spent on Project 97256B, the environmental assessment funded in FY 96 must be completed and NEPA (National Environmental Policy Act) documentation must be provided to the Executive Director. Conversations with Ken Holbrook of the Forest Service indicate that NEPA work is near completion.

Thank you for your participation in the *Exxon Valdez* oil spill restoration program. We appreciate your continued interest, and look forward to working with you this coming year.

Sincerely,


Molly McCammon *for*
Executive Director

Enclosure

cc: Dave Gibbons, USFS

mm/raw

Trustee Agencies

State of Alaska: Departments of Fish & Game, Law, and Environmental Conservation
United States: National Oceanic and Atmospheric Administration, Departments of Agriculture and Interior

DEFERRED PROJECTS: TRUSTEE COUNCIL 12/6/96 ACTION -- FY 97 WORK PLAN

Proj.No./ Research Cluster	ProjectTitle	Proposer	Lead Agency	New or Cont'd	FY97 Revised Request	Approved by Trustee Council	FY98 Estimate	FY99 Estimate	Total FY97-02 Estimate
97256A Subsistence	Sockeye Salmon Stocking at Columbia Lake	D. Gillikin/USFS	USFS	Cont'd 2nd yr. 7 yr. project	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0

Project Abstract

This project is designed to benefit subsistence users of northern Prince William Sound by stocking sockeye salmon in Columbia Lake. The lake is a predominantly clearwater lake that has recently become accessible to anadromous fish as Columbia Glacier has retreated. There are two phases to this project. The feasibility phase of the project (FY 96 and FY 97) will determine the ability of Columbia Lake to support a resident population of sockeye salmon. Phase 2 of the project will be to stock the lake with sockeye salmon. If the project is found to be feasible, stocking of the lake could begin in 1999. The stocking program will take five years to establish a self-sustaining run.

Chief Scientist's Recommendation

Feasibility survey conducted by U.S. Forest Service and Alaska Department of Fish and Game concluded that Columbia Lake is not able to support a viable sockeye salmon population. Do not fund.

Trustee Council Action

Do not fund based on feasibility study, which concluded that Columbia Lake is not productive enough to support a viable population of sockeye salmon.

DEFERRED PROJECTS: TRUSTEE COUNCIL 12/6/96 ACTION -- FY 97 WORK PLAN

Proj.No./ Research Cluster	ProjectTitle	Proposer	Lead Agency	New or Cont'd	FY97 Revised Request	Approved by Trustee Council	FY98 Estimate	FY99 Estimate	Total FY97-02 Estimate
97256B Subsistence	Sockeye Salmon Stocking at Solf Lake	D. Gillikin/USFS	USFS	Cont'd 2nd yr. 7 yr. project	\$50.0	\$50.0	\$143.5	\$78.5	\$457.1

Project Abstract

This project is designed to benefit subsistence users of Prince William Sound and especially residents of Chenega Bay. Habitat improvements were made in 1978, 1980 and 1981 to provide access to Solf Lake for anadromous fish. Investigations suggest that the lake is fishless and has adequate zooplankton biomass to support a salmon population. There are two phases to this project. The feasibility phase (FY 96) will verify the ability of Solf Lake to support a population of sockeye salmon. Phase 2 will stock the lake with sockeye salmon and ensure adequate anadromous access to the lake. If the project is found to be feasible, stocking of the lake could begin in 1998.

Chief Scientist's Recommendation

This appears to be a reasonable supplementation project in view of the pre-earthquake sockeye salmon population in Solf Lake. The FY 97 project will complete Phase I objectives and it appears technically feasible to then proceed to implement Phase II objectives, which will reestablish a sockeye population in Solf Lake for the benefit of subsistence communities in Prince William Sound. Fund.

Trustee Council Action

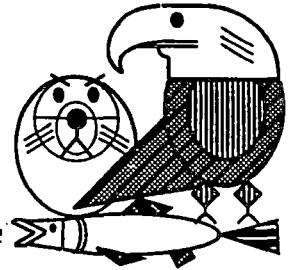
Fund. This project is intended to provide sockeye salmon as a replacement for subsistence and sport fishing resources injured by the oil spill, particularly for the residents of Chenega Bay.

Exxon Valdez Oil Spill Trustee Council

Restoration Office

645 G Street, Suite 401, Anchorage, Alaska 99501-3451

Phone: (907) 278-8012 Fax: (907) 276-7178



December 16, 1996

Craig O. Matkin
North Gulf Oceanic Society
POB 15244
Homer, AK 99603-6244

Re: Project 97012-BAA/Comprehensive Killer Whale Investigation in Prince William Sound

Craig
Dear Mr. Matkin:

On December 6, 1996, the *Exxon Valdez* Oil Spill Trustee Council acted on deferred projects for Fiscal Year 1997. I am pleased to inform you that the Council approved funding in the amount of \$156,000 for Project 97012-BAA/Comprehensive Killer Whale Investigation in Prince William Sound. This amount is in addition to the \$1,500 that the Council approved in August for continuation of the remote hydrophone monitoring effort by the residents of Chenega Bay. I have enclosed a copy of the Chief Scientist's recommendation and the Council's decision on this project.

Before a project may begin, the lead agency for the project must provide documentation to the Executive Director showing that the requirements of the National Environmental Policy Act (NEPA) have been met. The lead agency must also execute a contract or Reimbursable Services Agreement. For more information, please contact the lead agency representative:

Byron Morris
National Oceanic and Atmospheric Administration
11305 Glacier Highway, Auke Bay, Alaska 99821
Phone 907-789-6600/Fax 907-789-6608

Projects approved for FY 97 are approved in the expectation that they will be funded to their completion. However, the Trustee Council stipulated that future funding for Project 97012 will be contingent on developing objectives and milestones for completion of the project.

Trustee Agencies

State of Alaska: Departments of Fish & Game, Law, and Environmental Conservation
United States: National Oceanic and Atmospheric Administration, Departments of Agriculture and Interior

Thank you for your participation in the *Exxon Valdez* oil spill restoration program. We appreciate your continued interest, and look forward to working with you this coming year.

Sincerely,


Molly McCammon
Executive Director

Enclosure

cc: Byron Morris, NOAA
Heide Sickles, NOAA

mm/raw

DEFERRED PROJECTS: TRUSTEE COUNCIL 12/6/96 ACTION -- FY 97 WORK PLAN

Proj.No./ Research Cluster	ProjectTitle	Proposer	Lead Agency	New or Cont'd	FY97 Revised Request	Approved by Trustee Council	FY98 Estimate	FY99 Estimate	Total FY97-02 Estimate
97012-BAA Marine Mammals	Comprehensive Killer Whale Investigation in Prince William Sound	C. Matkin/North Gulf Oceanic Society	NOAA	Cont'd 5th yr. 5 yr. project	\$157.5	\$157.5			\$157.5

Project Abstract

This project continues the monitoring of the damaged AB pod and other Prince William Sound killer whales that has occurred on a yearly basis since 1984. It provides further analysis of a GIS database on killer whales. When coupled with genetic and acoustic data, the analysis will evaluate recovery of killer whales, recognize changes in behavioral ecology, estimate killer whale predation on harbor seals, and estimate impacts of the harbor seal decline on the potential recovery of killer whales. Year round residency of killer whales will be assessed using a remote hydrophone system. Environmental contaminant levels in the blubber of specific whales will be determined and potential effects on recovery evaluated.

Chief Scientist's Recommendation

This proposal is excellent, combining well-established techniques and some innovative methods. The publication record of the principal investigator has improved. A successful review was held in November 1996 and I recommend that the work proposed for FY 97 be funded. Funding beyond FY 97 will be contingent on developing objectives and milestones for completion of this project.

Trustee Council Action

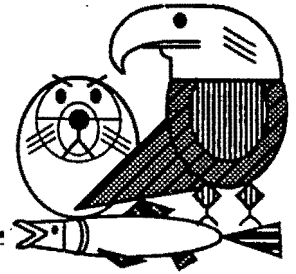
Fund. However, funding beyond FY 97 will be contingent on developing objectives and milestones for completion of the project. This project is providing valuable information about the long-term effects of the oil spill on resident and transient pods of killer whales in Prince William Sound and correlates the effects in part to their prey.

Exxon Valdez Oil Spill Trustee Council

Restoration Office

645 G Street, Suite 401, Anchorage, Alaska 99501-3451

Phone: (907) 278-8012 Fax: (907) 276-7178



December 16, 1996

Beverly A. Agler
USFWS Migratory Bird Management
1011 East Tudor Road
Anchorage, AK 99503

Re: Project 97159-CLO/Surveys to Monitor Marine Bird Abundance in Prince William Sound During Winter and Summer: Report and Publication

Dear Ms. Agler:

On December 6, 1996, the *Exxon Valdez* Oil Spill Trustee Council acted on deferred projects for Fiscal Year 1997. I am pleased to inform you that the Council approved funding in the amount of \$15,000 for Project 97159-CLO/Surveys to Monitor Marine Bird Abundance in Prince William Sound During Winter and Summer: Report and Publication. This amount is in addition to the \$45,100 that the Council approved in August for this project. The additional funding is for the services of a statistician to assist in preparation of publication of marine bird damage assessment information. I have enclosed a copy of the Chief Scientist's recommendation and the Council's decision on this project.

This letter also serves as formal authorization to spend the funds approved by the Council in December. NEPA compliance requirements on Project 97159 have been met, and all other conditions necessary for project authorization have been satisfied. The funds must be spent consistent with the November 7, 1996 letter from David Allen to Molly McCammon.

Projects approved for FY 97 are approved in the expectation that they will be funded to their completion. However, the Trustee Council will annually evaluate a project's future funding needs based on its progress or results to date, overall restoration needs, and restoration funding constraints. The future years' funding projection for this project is unspecified. The need for future surveys will be determined after review of the final report being prepared in FY 97.

Trustee Agencies

State of Alaska: Departments of Fish & Game, Law, and Environmental Conservation
United States: National Oceanic and Atmospheric Administration, Departments of Agriculture and Interior

Thank you for your participation in the *Exxon Valdez* oil spill restoration program. We appreciate your continued interest, and look forward to working with you this coming year.

Sincerely,


Molly McCammon
Executive Director

Enclosure

cc: Catherine Berg, DOI/FWS Liaison

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DEFERRED PROJECTS: TRUSTEE COUNCIL 12/6/96 ACTION -- FY 97 WORK PLAN

Proj.No./ Research Cluster	ProjectTitle	Proposer	Lead Agency	New or Cont'd	FY97 Revised Request	Approved by Trustee Council	FY98 Estimate	FY99 Estimate	Total FY97-02 Estimate
97159-CLO Seabird/Forage Fish and Related Projects	Surveys to Monitor Marine Bird Abundance in Prince William Sound During Winter and Summer: Report and Publication Writing	B. Agler/DOI-FWS	DOI	Cont'd 4th yr.	\$60.1	\$60.1			\$60.1

Project Abstract

In FY 97, this project will fund report and publication writing. Data collected during March 1990, 1991, 1993, 1994, and 1996 and July 1989, 1990, 1991, 1993, and 1996 will be used to examine trends by determining whether populations in the oiled zone changed at the same rate as those in the unoiled zone. Overall population trends for Prince William Sound from 1989-96 will also be examined. In addition, marine bird damage assessment information will be prepared for publication.

Chief Scientist's Recommendation

This project is developing a valuable long-term dataset regarding recovery status of injured species, and the statistical power to detect trends in these highly variable datasets should be reached with FY 96 data. The out-year budgets seem excessive, and any future commitments must be considered annually. Fund at level of revised request, which includes \$15,000 for additional statistical analyses. The additional \$15,000 should be approved with the stipulation that results of this work be published in the open, peer-reviewed scientific literature.

Trustee Council Action

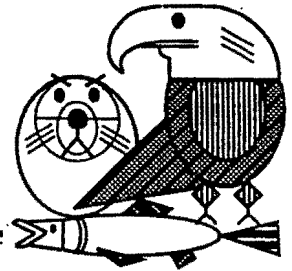
Fund, including \$15,000 for the services of a statistician to assist in preparation of marine bird damage assessment information for publication in the peer-reviewed literature. Funding also includes preparation of a final report (including 1 month to conduct regression analysis) and two other manuscripts (# 4 and #6 in the proposal) on marine bird abundance. The abundance surveys provide basic information on the status and recovery of seabirds (and sea otters) in Prince William Sound and should now be adequate to detect trends in seabird populations. The need for future surveys should be determined after review of the final report.

Exxon Valdez Oil Spill Trustee Council

Restoration Office

645 G Street, Suite 401, Anchorage, Alaska 99501-3451

Phone: (907) 278-8012 Fax: (907) 276-7178



December 16, 1996

Mark Willette
Alaska Department of Fish & Game
POB 669
Cordova, AK 99574-0669

Re: Project 97166/Herring Natal Habitats

Dear Mr. ^{Mark} Willette:

On December 6, 1996, the *Exxon Valdez* Oil Spill Trustee Council acted on deferred projects for Fiscal Year 1997. I am pleased to inform you that the Council approved funding in the amount of \$140,300 for Project 97166/Herring Natal Habitats to support the hydroacoustics component and completion of the herring recruitment model. This amount is in addition to the \$200,000 that the Council approved in August for herring spawn deposition surveys. I have enclosed a copy of the Chief Scientist's recommendation and the Council's decision on this project.

Before funds may be spent, the lead agency for the project must provide documentation to the Executive Director showing that the requirements of the National Environmental Policy Act (NEPA) have been met. For more information, please contact the lead agency representative:

Claudia Slater
Alaska Department of Fish & Game
333 Raspberry Road, Anchorage, Alaska 99518
Phone 907-267-2336/Fax 907-267-2474

Projects approved for FY 97 are approved in the expectation that they will be funded to their completion. For FY 98, the Council intends to fund only one survey method because of the difficulty in comparing the herring spawn deposition technique with the hydroacoustic survey. Please provide an estimate of the FY 98 cost for the continuation of one survey method. I realize that the Alaska Department of Fish and Game may not have decided yet which survey method it intends to continue in its management of the resource. However, the Restoration Office needs an estimate of the FY 98 cost of this project for planning purposes and would appreciate receiving

Trustee Agencies

State of Alaska: Departments of Fish & Game, Law, and Environmental Conservation
United States: National Oceanic and Atmospheric Administration, Departments of Agriculture and Interior

your estimate by **January 31, 1997**, for inclusion in the *FY 98 Invitation*. After FY 98, the Alaska Department of Fish and Game is expected to take over full support of this work.

Thank you for your participation in the *Exxon Valdez* oil spill restoration program. We appreciate your continued interest, and look forward to working with you this coming year.

Sincerely,


Molly McCammon
Executive Director

Enclosure

cc: Claudia Slater, ADF&G Liaison
Byron Morris, NOAA, NEPA Lead Agency

mm/raw

DEFERRED PROJECTS: TRUSTEE COUNCIL 12/6/96 ACTION -- FY 97 WORK PLAN

Proj.No./ Research Cluster	ProjectTitle	Proposer	Lead Agency	New or Cont'd	FY97 Revised Request	Approved by Trustee Council	FY98 Estimate	FY99 Estimate	Total FY97-02 Estimate
97166 <i>Pacific Herring</i>	Herring Natal Habitats	M. Willette/ADFG	ADFG	Cont'd 4th yr. 6 yr. project	\$340.3	\$340.3			\$340.3

Project Abstract

The oil spill coincided with the spring migration of Pacific herring to spawning grounds in Prince William Sound. Studies of oil spill injuries to herring documented damage from oil exposure in adult herring, reduced hatching success of embryos, and elevated levels of physical and genetic abnormalities in newly hatched larvae. The Prince William Sound herring spawning population has drastically declined since 1993, and pathology studies have implicated viral hemorrhagic septicemia (VHS) and *ichthyophonus* as potential sources of mortality as well as indicators of stress. This project will monitor the abundance of the herring resource in Prince William Sound using SCUBA and hydroacoustic techniques.

Chief Scientist's Recommendation

This project has been carried out for several years since the oil spill to provide basic information about the spawning biomass of Pacific herring in Prince William Sound. The proposal for FY 97 would compare egg-based estimates of biomass with biomass estimates obtained from acoustic methods. The absence of any absolute abundance measure will make it necessary for the Alaska Department of Fish and Game to eventually choose among age-weight-length analyses from test fishing, aerial surveys of shoreline spawning, hydroacoustic measures, egg-deposition-based abundance and juvenile abundance survey methods developed in the SEA project (/320). The low cost and initial encouraging results from hydroacoustic surveys make this method a likely candidate for a future management tool. Also, 1997 is likely to be a period of continuing rebuilding of the stock. Therefore, the continuation of hydroacoustics is warranted in FY 97. However, it is likely that in FY 98 not all methods now supported by the Trustee Council will be continued.

Trustee Council Action

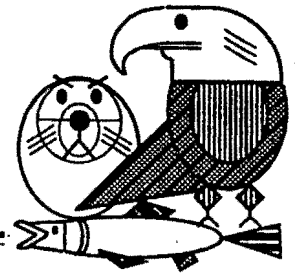
Fund, including the hydroacoustics component and completion of the herring recruitment model (which were deferred by the Trustee Council in August). In FY 98, fund only one survey method based on peer reviewers' concerns about the difficulty in comparing the herring spawn deposition technique with the hydroacoustic survey. The Alaska Department of Fish and Game has now provided a plan to take over full support of this work after FY 98. This project continues abundance surveys of Pacific herring and supports fisheries management decisions that protect the recovery of the stock.

Exxon Valdez Oil Spill Trustee Council

Restoration Office

645 G Street, Suite 401, Anchorage, Alaska 99501-3451

Phone: (907) 278-8012 Fax: (907) 276-7178



December 16, 1996

Vicki Friesen
Department of Biology
Queen's University
Kingston, ON K7L 3N6
CANADA

John Piatt
USGS-BRD
1011 East Tudor Road
Anchorage, AK 99503-6119

Re: Project 97169/A Genetic Study to Aid in Restoration of Murres, Guillemots, and Murrelets to the Gulf of Alaska

Dear Drs. Friesen and Piatt:

On December 6, 1996, the *Exxon Valdez* Oil Spill Trustee Council acted on deferred projects for Fiscal Year 1997. I am pleased to inform you that the Council approved funding in the amount of \$59,400 for Project 97169/A Genetic Study to Aid in Restoration of Murres, Guillemots, and Murrelets to the Gulf of Alaska. I have enclosed a copy of the Chief Scientist's recommendation and the Council's decision on this project.

Before a project may begin, the lead agency for the project must provide documentation to the Executive Director showing that the requirements of the National Environmental Policy Act (NEPA) have been met. The lead agency must also execute a contract or Reimbursable Services Agreement. For more information, please contact the lead agency representative:

Catherine Berg
U.S. Department of the Interior, Fish & Wildlife Service
1011 East Tudor Road, Anchorage, Alaska 99503
Phone 907-786-3598/Fax 907-786-3350

Projects approved for FY 97 are approved in the expectation that they will be funded to their completion. However, the Trustee Council will annually evaluate a project's future

Trustee Agencies

State of Alaska: Departments of Fish & Game, Law, and Environmental Conservation
United States: National Oceanic and Atmospheric Administration, Departments of Agriculture and Interior

funding needs based on its progress or results to date, overall restoration needs, and restoration funding constraints. The future years' funding projection for this project is \$78,100 for FY 98, \$83,800 for FY 99 and \$12,800 for FY 2000.

Thank you for your participation in the *Exxon Valdez* oil spill restoration program. We appreciate your continued interest, and look forward to working with you this coming year.

Sincerely,


Molly McCammon *for*
Executive Director

Enclosure

cc: Catherine Berg, DOI Liaison

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DEFERRED PROJECTS: TRUSTEE COUNCIL 12/6/96 ACTION -- FY 97 WORK PLAN

Proj.No./ Research Cluster	ProjectTitle	Proposer	Lead Agency	New or Cont'd	FY97 Revised Request	Approved by Trustee Council	FY98 Estimate	FY99 Estimate	Total FY97-02 Estimate
97169 <i>Seabird/Forage Fish and Related Projects</i>	A Genetic Study to Aid in Restoration of Murres, Guillemots, and Murrelets to the Gulf of Alaska	V. Friesen/Queen's University, J. Piatt/DOI-FWS	DOI	New 1st yr. 4 yr. project	\$59.4	\$59.4	\$78.1	\$83.8	\$234.1

Project Abstract

Populations of common murres, pigeon guillemots, and marbled and Kittlitz's murrelets from the Gulf of Alaska are failing to recover from the oil spill. This project will use state-of-the-art genetic techniques to aid in their restoration by 1) determining the geographic limits and structure of populations, i.e., the extent to which colonies are genetically isolated or comprise metapopulations, 2) detecting cryptic species and subspecies, 3) identifying sources and sinks, 4) providing genetic markers for the identification of breeding populations of birds killed by the spill, 5) identifying appropriate reference or control sites for monitoring or reintroductions, and 6) determining the role of inbreeding and small effective population sizes in restricting recovery.

Chief Scientist's Recommendation

The Trustee Council is interested in application of genetic techniques to questions about seabird biology. This project has been revised in response to peer review comments with regard to narrowing the objectives, clarifying use of various genetic methods, and reducing travel costs. This project is now recommended for funding.

Trustee Council Action

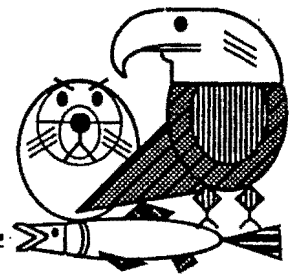
Fund. The FY 97 Invitation encouraged proposals on the genetics of common murres, marbled murrelets, and pigeon guillemots in order to better understand the relationship between different populations of these species. This proposal was responsive to the Invitation and the PIs have responded to concerns about the objectives and methodologies of the study.

Exxon Valdez Oil Spill Trustee Council

Restoration Office

645 G Street, Suite 401, Anchorage, Alaska 99501-3451

Phone: (907) 278-8012 Fax: (907) 276-7178



December 16, 1996

James A. Winchester
Prince William Sound Economic Development Council
POB 2353
Valdez, AK 99686-0467

Re: Project 97230/Valdez Duck Flats Restoration

Dear Mr. Winchester:

On December 6, 1996, the *Exxon Valdez* Oil Spill Trustee Council acted on deferred projects for Fiscal Year 1997. I am pleased to inform you that the Council approved funding in the amount of \$67,800 for Project 97230/Valdez Duck Flats Restoration to support development of a concept plan for protection of habitat on the Valdez Duck Flats. The duration of this project is expected to be one year. I have enclosed a copy of the Chief Scientist's recommendation and the Council's decision on this project.

During its deliberation about this project, the Trustee Council referred to the enclosed article about an Army Corps of Engineers project at the Valdez Small Boat Harbor. Council members expressed their desire for you to coordinate Project 97230 with the harbor-flushing project, which consists of a dike and culvert system through which clean sea water from the Valdez Duck Flats would flush out to sea polluted water in the small boat harbor.

Before a project may begin, the lead agency for the project must provide documentation to the Executive Director showing that the requirements of the National Environmental Policy Act (NEPA) have been met. The lead agency must also execute a contract or Reimbursable Services Agreement. For more information, please contact the lead agency representative:

Carol Fries
Alaska Department of Natural Resources
3601 C Street, Suite 1210, Anchorage, Alaska 99503
Phone 907-269-8431/Fax 907-269-8918

Trustee Agencies

State of Alaska: Departments of Fish & Game, Law, and Environmental Conservation
United States: National Oceanic and Atmospheric Administration, Departments of Agriculture and Interior

Thank you for your participation in the *Exxon Valdez* oil spill restoration program. We appreciate your continued interest, and look forward to working with you this coming year.

Sincerely,


Molly McCammon
Executive Director

Enclosures (2)

cc: Carol Fries, ADNR Liaison
Dave Gibbons, USFS, NEPA Lead Agency

mm/raw

DEFERRED PROJECTS: TRUSTEE COUNCIL 12/6/96 ACTION -- FY 97 WORK PLAN

Proj.No./ Research Cluster	ProjectTitle	Proposer	Lead Agency	New or Cont'd	FY97 Revised Request	Approved by Trustee Council	FY98 Estimate	FY99 Estimate	Total FY97-02 Estimate
97230 Habitat Improvement	Valdez Duck Flats Restoration Project	J. Winchester/PWS Economic Development Council	ADNR	New 1st yr. 1 yr. project	\$67.8	\$67.8	\$0.0	\$0.0	\$67.8

Project Abstract

The Alaska Department of Natural Resources has identified the waters of Valdez Duck Flats and nearshore waters east to the mouth of the Lowe River as crucial estuarine habitat in the Prince William Sound Area Plan. Wildlife species injured by the oil spill are threatened by crowding, disturbance, plastics pollution, and active human disturbance. The area provides important habitat for water birds, anadromous fish, and other estuarine and intertidal species. This proposal will further identify injured resources, aid in the recovery of spill impacted populations, mitigate effects of visitor traffic, design a local volunteer monitoring program, and educate the public about the value of tidelands.

Chief Scientist's Recommendation

The apparent goal is to prevent loss of habitat values on the Valdez Duck Flats, an area which has some link to injured resources, including pink and sockeye salmon. Several tracts on the Duck Flats are under consideration for possible small-parcel acquisitions by the Trustee Council. The proposal has a heavy up-front emphasis on engineering and construction, but the proposers will first assess wildlife habitat needs and alternative ways of addressing those needs in the face of increasing development and visitor pressures. To their credit, the proposers seem to have the interest and cooperation of a number of key agencies and constituencies.

Trustee Council Action

Fund development of a concept plan for protection of habitat on the Valdez Duck Flats. The plan should take into account the effort underway by the Army Corps of Engineers to enhance tidal flushing in the area through development of a reservoir. One option for protecting the flats is affected by the acquisition of three small parcels, for which the appraisals are being reviewed. The Valdez Duck Flats are a large and complex intertidal mudflat and salt marsh that offer valuable habitat to several injured resources and services. A locally developed plan for protecting habitat on the Duck Flats will increase the probability that future use of the flats will promote the recovery of injured resources and services given increased public usage.

Sen. Stevens tours harbor-flushing project site

Valdez Vanguard
Wed, 8/14/96

By Tony Bickert
Valdez Vanguard

U.S. Sen. Ted Stevens said he expects President Clinton to approve \$1 million to install a dike and culvert systems at Dock Point through which clean sea water from the Valdez Duck Flats area would flush out to sea polluted water in the small boat harbor.

"The whole idea is to increase circulation in here," Stevens said Sunday as he stood on South Harbor Drive between the two waters during an election-year tour of Valdez. He said he expects Clinton to release the funds to the Army Corps of Engineers in September with work to begin next spring. The total construction cost is \$1.25 million. The

city will pay 25 percent.

The project falls under the Water Development Appropriation Bill, which quickly passed the House and Senate last month. Stevens also requested \$3 million for the Cordova Power Creek project, \$1 for the Prince of Wales-Klawock-Thorne Bay Intertie and \$1 million for Hydaburg's Reynolds Creek project.

The Dock Point project was announced last year after a study conducted by the Corps and City of Valdez showed a culvert system would solve the 30-year-old problem caused by poor design by the Corps and city, careless fishermen, and a lack of a sewage dump station.

"Your harbor is terrible," Corps

See Stevens, page 16

Page 16

The Valdez Vanguard

Wednesday, August 14, 1996



Tony Bickert/Valdez Vanguard

U.S. Senator Ted Stevens survey's the Dock Point area Sunday during a campaign stop in Valdez. Stevens helped push a bill through the senate that is expected to generate \$1 for the Dock Point water flushing project next spring.

Stevens...

From page 1

biologist John Burns said. "We built it and we're going to correct it. The harbor is used by so many juvenile fish, millions of them, and it's not a very healthy environment for them. We may be harming the fish considerably."

Burns said two culvert systems, one under South Harbor Drive and the other through a dike built off shore on the Hotel Hill side of the beach, would permit water during high tides to create a 22-acre pond. At low tide the water would pour through the culverts under the road into the harbor to provide circulation and eventually push the waste-laden water into the open port to dissipate. Valves on the system would prohibit harbor water from back-flowing into the pristine Dock Point area.

"We're not going to mess up that cove," Burns said. "Everything will be going from the clean side to the dirty side."

City Councilman Dave Cobb, who's also head of the Valdez Fisheries Development Association that runs Solomon Gulch Hatchery, said he had concerns about the project until he learned that young salmon released from the hatchery, which develop in the dock point area before heading out to sea, will not be harmed in the flushing process.

"My initial concern was that the whole area would go dry at low tide," Cobb said. "Well, that's not the case."

Another public concern had been that Valdez' only beach area, a popular field trip area where young school students learn first hand about marine organisms, would be eliminated. But Cobb said plenty of beach area will remain.

City engineer Bill Wilcox said

the pollution in the harbor is not only the result of poor planning by the city and Corps, but also of carelessness by harbor users.

"There is no sewage disposal facility so they are dumping their sewage in there."

Coast Guard regulations prohibit dumping raw sewage in Prince William Sound.

"But they have no alternative," Wilcox added.

The city is also planning to install a \$60,000 mobile dump station as early as next spring. The city will cover half the cost.

Burns admitted that the harbor, built in 1965-1966, was poorly designed by the Corps, but said the circulation problem became worse when the city dredged and expanded the facilities in the mid 1980s.

"Since it has been expanded the circulation in the harbor, being long and narrow with one entrance, has been extremely poor," he said.



Sen. Stevens Makes An On-Site Inspection

City manager Phil Hubbard and councilman Dave Cobb (pointing) gave Sen. Ted Stevens and on-site inspection of federally funded impoundment basin in the Small Boat Harbor on Sunday. The project, which is designed to flush the Small Boat Harbor, will get underway next spring. Sen. Stevens is being credited with securing federal funding for the project.

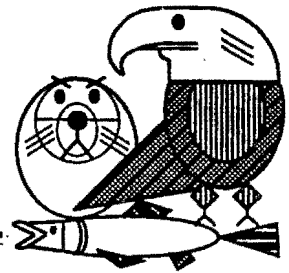
Star photo

Exxon Valdez Oil Spill Trustee Council

Restoration Office

645 G Street, Suite 401, Anchorage, Alaska 99501-3451

Phone: (907) 278-8012 Fax: (907) 276-7178



December 16, 1996

John Piatt
USGS-BRD
1011 East Tudor Road
Anchorage, AK 99503-6119

Re: Project 97305/Monitoring Response of Seabirds to Changing Prey Availability
Using Stable Isotope Analysis

Dear Dr. Piatt:

On December 6, 1996, the *Exxon Valdez* Oil Spill Trustee Council acted on deferred projects for Fiscal Year 1997. The Council did not fund Project 97305/Monitoring Response of Seabirds to Changing Prey Availability Using Stable Isotope Analysis because there is potential for samples gathered in the APEX project (/163) to be analyzed under Project 97170. I have enclosed a copy of the Chief Scientist's recommendation and the Council's decision on this project.

I appreciate your interest in the restoration program and hope you will consider submitting proposals in future years.

Sincerely,


Molly McCammon
Executive Director

Enclosure

cc: Catherine Berg, DOI/FWS Liaison

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Trustee Agencies

State of Alaska: Departments of Fish & Game, Law, and Environmental Conservation
United States: National Oceanic and Atmospheric Administration, Departments of Agriculture and Interior

DEFERRED PROJECTS: TRUSTEE COUNCIL 12/6/96 ACTION -- FY 97 WORK PLAN

Proj.No./ Research Cluster	ProjectTitle	Proposer	Lead Agency	New or Cont'd	FY97 Revised Request	Approved by Trustee Council	FY98 Estimate	FY99 Estimate	Total FY97-02 Estimate
97305 Seabird/Forage Fish and Related Projects	Monitoring Response of Seabirds to Changing Prey Availability Using Stable Isotope Analysis	J. Platt/DOI-NBS	DOI	New 1st yr. 4 yr. project	\$35.0	\$0.0	\$0.0	\$0.0	\$0.0

Project Abstract

A key component of the ecosystem-level study (APEX-/163) designed to evaluate the response of seabirds to fluctuations in forage fish density following the oil spill is the accurate evaluation of seabird diet through time. Recent advances in the use of naturally occurring stable isotopes of carbon and nitrogen to trace food webs can be applied to seabird communities. This technique will allow trophic dynamics and location of feeding to be traced in association with intra- and inter-seasonal changes in seabird prey. Moreover, the measurement of several tissues of seabirds, including those of their eggs, will be used to establish diet of birds integrated over various time periods.

Chief Scientist's Recommendation

Stable isotope measurement of seabird tissues could contribute much to our understanding of declines of seabird populations relative to food sources. It is recommended that samples gathered in the APEX program in 1995 and 1996 be initially analyzed under Project /170. Lower priority; do not fund.

Trustee Council Action

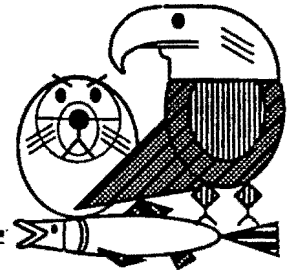
Do not fund. There is the potential for samples gathered in the APEX project (/163) to be analyzed under Project 97170 using stable isotope analysis.

Exxon Valdez Oil Spill Trustee Council

Restoration Office

645 G Street, Suite 401, Anchorage, Alaska 99501-3451

Phone: (907) 278-8012 Fax: (907) 276-7178



December 16, 1996

Gordon L. Pullar
Department of Alaska Native & Rural Development
2221 East Northern Lights Blvd Suite 213
Anchorage, AK 99508-4131

Re: Project 97275/Rural Development Applied Field-Based Research Program in Oil
Spill Affected Areas

Dear Mr. Pullar:

On December 6, 1996, the *Exxon Valdez* Oil Spill Trustee Council acted on deferred projects for Fiscal Year 1997. The Council did not fund Project 97275/Rural Development Applied Field-Based Research Program in Oil Spill Affected Areas because you did not confirm commitments from principal investigators to incorporate student research into specific restoration projects. I have enclosed a copy of the Chief Scientist's recommendation and the Council's decision on this project.

I appreciate your interest in the restoration program and hope you will consider submitting proposals in future years. The *Invitation to Submit Proposals for FY 98* will be available in February 1997. Proposals for FY 98 will be due on April 15, 1997.

Sincerely,


Molly McCammon
Executive Director

Enclosure

cc: Claudia Slater, ADF&G

mm/raw

Trustee Agencies

State of Alaska: Departments of Fish & Game, Law, and Environmental Conservation
United States: National Oceanic and Atmospheric Administration, Departments of Agriculture and Interior

DEFERRED PROJECTS: TRUSTEE COUNCIL 12/6/96 ACTION -- FY 97 WORK PLAN

Proj.No./ Research Cluster	ProjectTitle	Proposer	Lead Agency	New or Cont'd	FY97 Revised Request	Approved by Trustee Council	FY98 Estimate	FY99 Estimate	Total FY97-02 Estimate
97275 Administration, Science Management, and Public Information	Rural Development Applied Field-Based Research Program in Oil Spill Affected Areas	G. Pullar/UAF-College of Rural Alaska	ADFG	New 1st yr. 6 yr. project	\$37.5	\$0.0	\$0.0	\$0.0	\$0.0

Project Abstract

Human resources will be strengthened through an interdisciplinary Bachelor's degree program in Rural Development and community restoration through applied research, distance education, and mentoring. Trustee Council priorities will be addressed integrating western science and indigenous knowledge. Students will be provided with a broad understanding of rural development in a global economy and a mastery of specific tools for effective community leadership. Specialization in one of five areas is linked to jobs in communities. Coursework will be delivered through interactive video and other distance delivery techniques and intensive rural development seminars.

Chief Scientist's Recommendation

This proposal is an excellent idea with a sound technical approach. However, it is justified based on an implied lack of leadership in the community, which does not seem to be apparent. There would be more incentive to fund this proposal if village leaders had requested it from the Trustee Council. In addition, the proposal lacks sufficient relationship to restoration objectives. Do not fund.

Trustee Council Action

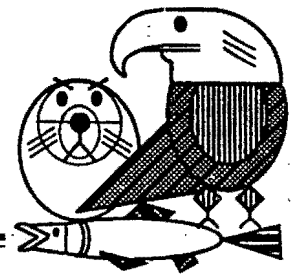
Do not fund. The decision on funding this project was deferred by the Trustee Council in August, pending further review of the Detailed Project Description and commitments from PIs to incorporate student research into specific restoration projects. The project proposer has not confirmed commitments from PIs.

Exxon Valdez Oil Spill Trustee Council

Restoration Office

645 G Street, Suite 401, Anchorage, Alaska 99501-3451

Phone: (907) 278-8012 Fax: (907) 276-7178



December 16, 1996

Charles N. Totemoff
President & CEO
Chenega Corporation
3333 Denali Street, Suite 260
Anchorage, AK 99503-4038

Re: Project 97277/Archaeological Repository and Cultural Facility in Chenega Bay

Church
Dear Mr. Totemoff:

On December 6, 1996, the *Exxon Valdez* Oil Spill Trustee Council acted on deferred projects for Fiscal Year 1997. The Council did not fund Project 97277/Archaeological Repository and Cultural Facility in Chenega Bay for Fiscal Year 1997. I have enclosed a copy of the Chief Scientist's recommendation and the Council's decision on this project.

The Trustee Council has not yet decided whether to invite proposals for archaeological repositories or similar facilities for Fiscal Year 1998. I expect a decision in late February 1997, after a thorough public involvement program which will include public meetings in Chenega Bay and other spill-affected communities. If an invitation is issued, you will be asked to submit a more detailed proposal.

I appreciate your interest in the restoration program and hope you will consider submitting proposals in future years.

Sincerely,


Molly McCammon
Executive Director

Enclosure

cc: Dave Gibbons, USFS Liaison

mm/raw

Trustee Agencies

State of Alaska: Departments of Fish & Game, Law, and Environmental Conservation
United States: National Oceanic and Atmospheric Administration, Departments of Agriculture and Interior

DEFERRED PROJECTS: TRUSTEE COUNCIL 12/6/96 ACTION -- FY 97 WORK PLAN

Proj.No./ Research Cluster	ProjectTitle	Proposer	Lead Agency	New or Cont'd	FY97 Revised Request	Approved by Trustee Council	FY98 Estimate	FY99 Estimate	Total FY97-02 Estimate
97277 Archaeological Resources	Archaeological Repository and Cultural Facility in Chenega Bay	C. Totemoff/Chenega Corporation	USFS	New 1st yr. 3 yr. project	\$318.5	\$0.0			\$0.0

Project Abstract

This project will fund an archaeological repository in Chenega Bay. Additional programming under the project will include stewardship of the facility, preservation and curation of artifacts, and educational/cultural programs. During 1997, the work planned for the period includes site control, architectural and engineering final proposals, and program development (in league with Chugach Heritage Foundation), as well as artifact and site inventorying, cataloging, and collecting. Completion of the operations and maintenance plan is also expected during this phase.

Chief Scientist's Recommendation

Although this project would contribute to archaeological restoration objectives with respect to Chenega Bay, there are major long-term issues to be resolved in regard to operation of the facility. This raises both financial and policy questions, which must be addressed by others. Based on this limited proposal and the unresolved long-term issues, I cannot recommend funding at this time.

Trustee Council Action

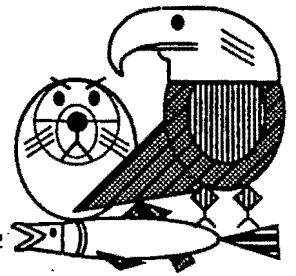
Do not fund this year. Proposals for archaeological repositories will be considered as part of the FY 98 Invitation.

Exxon Valdez Oil Spill Trustee Council

Restoration Office

645 G Street, Suite 401, Anchorage, Alaska 99501-3451

Phone: (907) 278-8012 Fax: (907) 276-7178



December 16, 1996

Jody Seitz
Herring Program
University of Alaska Fairbanks
POB 2694
Cordova, Alaska 99574-0705

Re: Project 97248/Collection of Historical Data and Local Environmental Knowledge
of Forage Fish and Herring

Jody
Dear Ms. Seitz:

On December 6, 1996, the *Exxon Valdez* Oil Spill Trustee Council acted on deferred projects for Fiscal Year 1997. I am writing to inform you that the Council continued to defer a decision on funding for Project 97248/Collection of Historical Data and Local Environmental Knowledge of Forage Fish and Herring. I have enclosed a copy of the Chief Scientist's recommendation and the Council's action on your project. You will note that a decision was deferred until Project 97052B/Traditional Ecological Knowledge is underway and a determination has been made as to how the objectives of your project can best be achieved.

As you know, Dr. Henry Huntington and Dr. Pam Colorado were recently hired by the Chugach Regional Resources Commission to fill the position of TEK Specialist for the Trustee Council. Henry and Pam are currently in the process of preparing a draft document describing the work they propose to do this fiscal year. Their work plan will be reviewed by the Council's TEK Advisory Group in mid-January and is scheduled for finalization by the end of January. I would encourage you to contact Henry (work phone 907-563-6917; fax 907-562-0880), whose project responsibilities include working with PIs who want to incorporate TEK into their restoration projects. I will be asking Henry for a recommendation on Project 97248.

Trustee Agencies

State of Alaska: Departments of Fish & Game, Law, and Environmental Conservation
United States: National Oceanic and Atmospheric Administration, Departments of Agriculture and Interior

Thank you for your continued interest in the *Exxon Valdez* oil spill restoration program.

Sincerely,


Molly McCammon
Executive Director

Enclosure

cc: Claudia Slater, ADF&G Liaison
Henry Huntington, TEK Specialist

mm/raw

DEFERRED PROJECTS: TRUSTEE COUNCIL 12/6/96 ACTION -- FY 97 WORK PLAN

Proj.No./ Research Cluster	ProjectTitle	Proposer	Lead Agency	New or Cont'd	FY97 Revised Request	Approved by Trustee Council	FY98 Estimate	FY99 Estimate	Total* FY97-02 Estimate
97248 <i>Pacific Herring</i>	Collection of Historical Data and Local Environmental Knowledge of Forage Fish and Herring	J. Seitz	ADFG	New 1st yr. 1 yr. project	\$40.0	\$0.0	\$0.0	\$0.0	\$0.0

Project Abstract

Using personal interviews, surveys, and mapping, this project will collect historical and contemporary knowledge about the ecology of herring and other forage fish and map information on their distribution; create an ascii file of mapped data; and create a subject index of textual information on the ecology and life cycle of the fish by species. Data and reports will be provided to participating projects -- SEA (/320) and APEX (/163).

Chief Scientist's Recommendation

This project could contribute to the redevelopment of confidence in fish resources by subsistence users, and possibly provide information on recovery using traditional and local knowledge of pre-spill abundance. The institutional arrangements and project management responsibilities are inadequately defined, and it may be beneficial to formally link this project with other efforts attempting to develop traditional ecological knowledge. Reconsider revised proposal after assessment of all traditional ecological knowledge projects.

Trustee Council Action

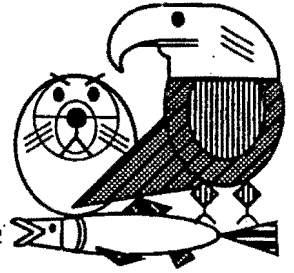
Defer decision on funding until Project 97052B/Traditional Ecological Knowledge is underway and a determination has been made as to how the objectives of this project can best be achieved. This project is designed to address restoration objectives for herring and seabirds by contributing indigenous and local knowledge on herring and other forage fish.

Exxon Valdez Oil Spill Trustee Council

Restoration Office

645 G Street, Suite 401, Anchorage, Alaska 99501-3451

Phone: (907) 278-8012 Fax: (907) 276-7178



December 16, 1996

Riki Ott, Ph.D.
Chair, UFA Habitat Committee
POB 1271
Cordova, AK 99574-1271

Re: Project 97281/Habitat Improvement Through Redesigned Forest Workshops

Dear Dr. Ott:

On December 6, 1996, the *Exxon Valdez* Oil Spill Trustee Council acted on deferred projects for Fiscal Year 1997. The Council did not fund Project 97281/Habitat Improvement Through Redesigned Forest Workshops because joint sponsorship by key stakeholders, including financial participation, was not adequately confirmed. I have enclosed a copy of the Chief Scientist's recommendation and the Council's decision on this project.

I appreciate your interest in the restoration program and hope you will consider submitting proposals in future years. The *Invitation to Submit Proposals for FY 98* will be available in February 1997. Proposals for Fiscal Year 1998 will be due on April 15, 1997.

Sincerely,


Molly McCammon
Executive Director

Enclosure

cc: Dave Gibbons, USFS Liaison

mm/raw

Trustee Agencies

State of Alaska: Departments of Fish & Game, Law, and Environmental Conservation
United States: National Oceanic and Atmospheric Administration, Departments of Agriculture and Interior

DEFERRED PROJECTS: TRUSTEE COUNCIL 12/6/96 ACTION -- FY 97 WORK PLAN

Proj.No./ Research Cluster	ProjectTitle	Proposer	Lead Agency	New or Cont'd	FY97 Revised Request	Approved by Trustee Council	FY98 Estimate	FY99 Estimate	Total FY97-02 Estimate
97281 Subsistence	Habitat Improvement Through Redesigned Forest Workshops	R. Ott/Native Village of Eyak Tribal Council	USFS	New 1st yr. 1 yr. project	\$50.0	\$0.0	\$0.0	\$0.0	\$0.0

Project Abstract

This project will promote habitat improvement by providing Alaska Natives and community leaders with tools for self determination of culturally appropriate economic development of forested lands. These tools will be provided through a series of facilitated workshops that will reexamine all possible land use options in light of the effects of logging on the ecosystem. Cultural needs of the traditional and customary users of the natural resources associated with those lands will be prioritized at the same time as recognizing the priority for maintaining a strong economic base for the land owners. These land use options will provide a much more cost effective way to provide habitat improvement than outright acquisition.

Chief Scientist's Recommendation

While reforestation and sustained uses of forests have a link to habitat protection as a restoration objective, this proposal gives little detail as a basis for technical evaluation. To be successful, any work along the lines of what is proposed would need full support and participation of the Eyak Village Corporation and the Chugach Native Corporation, which are the land owners/managers. Based on the merits of the proposal as presented, the reviewers cannot recommend funding.

Trustee Council Action

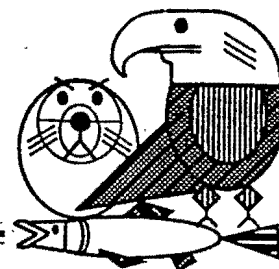
Do not fund. The Trustee Council deferred a decision on funding this project until the proposer confirms joint sponsorship by key stakeholders (e.g., Chugach Alaska Corporation, the village corporations, and other village councils). Although the proposer has requested support from key stakeholders, no commitments have been confirmed.

Exxon Valdez Oil Spill Trustee Council

Restoration Office

645 G Street, Suite 401, Anchorage, Alaska 99501-3451

Phone: (907) 278-8012 Fax: (907) 276-7178



MEMORANDUM

To: Stephen Jewett
University of Alaska Fairbanks

From: Stan Senner, Science Coordinator *Stan*
Joe Hunt, Communications Director

Subject: Subtidal Account for the *Restoration Notebook* Series

Date: December 16, 1996

For almost a year now, the Restoration Office has been planning to produce a series of accounts on key resources and services injured by the *Exxon Valdez* oil spill. The first two accounts are on harbor seals and marbled murrelets and are enclosed for your information. Please see the attached list of planned accounts and possible authors.

The *Restoration Notebook* series, as we are calling it, is intended to pull together information on the injury and recovery status of key injured resources and services and what has been done in the way of restoration activities. This semi-technical series is aimed at educated lay readers. These accounts are not intended for citation as scientific publications, though they must be scientifically sound, based on project reports and the literature. The *Restoration Notebook* will appear in a loose-leaf format and be put out electronically on the OSPIC website. We expect that the accounts will be updated periodically (e.g., every other year?).

We are eager to your help with this project and are wondering if, together, you and Charles O'Clair might effectively pull together information on the subtidal community, including sediments. Specifically, we invite you to help prepare the first draft of this account, secure photos and figures, and review subsequent drafts leading to the final product. We will supply the scientific review (with the Chief Scientist), editing and proof-reading, formatting, and polishing. We will do most of the work after the initial draft is prepared.

In terms of timing, we aim to get as many counts moving as quickly as we can, but our goal is to at least have a draft of each account in hand by the end of February. We know that this is a busy time of year, but so is most of the rest of the year! Would you consider this request and let Stan know whether you can make a commitment to produce the requested draft, and, if so, when it might be done? We can be reached at the telephone and fax numbers on this letterhead or by e-

Trustee Agencies

State of Alaska: Departments of Fish & Game, Law, and Environmental Conservation
United States: National Oceanic and Atmospheric Administration, Departments of Agriculture and Interior

Page 2
Jewett
December 16, 1996

mail (<stans@oilspill.state.ak.us> <joe@oilspill.state.ak.us>). If possible, please contact Stan about your participation no later than Friday, January 3.


You may ask whether the Restoration Office is able to pay for the necessary staff time. We cannot, but it is our hope that as a long-time investigators in the EVOS restoration program you will appreciate the importance of summarizing this information in a way that is accessible to the general public and will be willing and eager to help. In addition, you should be aware that this project is a high priority of both the Trustee Council and the Public Advisory Group. If it simply is not possible to produce drafts in a reasonable time, let's discuss the alternatives.

The enclosed accounts by Kathy Frost and Kathy Kuletz can serve as style models. If you have questions about style, please call Joe. We also have enclosed a generic outline for the substance of the account. You will need to adapt this to your own resource, and, in the case of subsistence, it won't help much at all. If you have questions about substance, give Stan a call.

Thank you for considering this request. Again, please let Stan know whether and when you can help with this project.

encl: (4)

cc: Molly McCammon, Executive Director
Dr. Robert Spies, Chief Scientist



United States
Department of
Agriculture

Forest
Service

Alaska Region

P.O. Box 21628
Juneau, AK 99802-1628

*We sent this out
for Dianne
Munson*

December 13, 1996

Dear Prince William Sound users and other interested parties;

The *Exxon Valdez* Trustee Council is conducting environmental analyses on a proposed project to reduce remaining oil on eight beaches impacted by the 1989 *Exxon Valdez* oil spill. The beaches are located near the village of Chenega Bay in Southwest Prince William Sound (see enclosed maps). The cleanup project has been requested by the village of Chenega Bay who are the upland owners of all but one site which is owned by the Forest Service. The project will be performed by a licensed and bonded spill-response action contractor acting under the supervision of the Prevention and Emergency Response Program of the Alaska Department of Environmental Conservation. The Prince William Sound Economic Development Council, the state sanctioned regional development organization for Prince William Sound, will also have a role to provide local involvement in the proposed project. We need your help in identifying issues to be addressed, specific environmental conditions we should be aware of, mitigation measures or alternative ways of removing the oil we should address in the assessment document.

Background:

The 1993 Shoreline Assessment funded by the Trustee Council showed that much of the remaining oiling is found near the village of Chenega Bay. The community of Chenega Bay has consistently expressed concern about this oiling and has continually asked the Trustee Council to fund removal of the remaining oil. Experts say that the oil is not likely to disappear naturally in the near future, perhaps not for decades.

The Trustee Council sponsored a workshop on Residual Shoreline Oil in November of 1995 to attempt to answer the technical, social, and policy questions that surround this issue. The workshop addressed the benefits of additional shoreline treatment and the environmental cost of treatment. The workshop was designed to allow experts in the field of oil spill response and assessment, natural resource scientists, citizens of Chenega Bay, and other interested persons to discuss these issues and to provide the Trustee Council with information to allow them to decide whether or not to fund additional treatment. Findings on these main issues are summarized below.

While the remaining oil is generally heavily weathered, village residents say that the continued presence of the oil affects their confidence in the use of subsistence resources and use of the shorelines. A summary of this concern was stated as follows: "If you went into a supermarket and it was filthy, would you buy your food there?" The resident went on to say that Prince William Sound is the supermarket for Chenega Bay; it is where their food comes from; and the fact that it is dirty makes a difference in their use, enjoyment, and possible health. Removal of the oil near the village will increase confidence levels and improve

subistence participation, residents say. It will also improve the visual appearance of some shorelines, thereby improving recreational opportunities. Residual oil exists elsewhere in the spill area, but the oil near Chenega heightens the awareness and concerns of the village residents who use the shorelines and waters of the area.

With respect to the environmental cost of treatment, the experts attending the workshop felt that a limited treatment program could provide benefits to Chenega Bay residents and other shoreline users without incurring undue environmental harm.

Project Description:

This project would reduce or remove tar, asphalt, emulsion and contaminated soils from eight different beaches identified as high priority by the residents of Chenega Bay. ADEC technicians and engineers under contract, as well as residents of the village of Chenega Bay, examined the eight beaches in October 1996 and concluded that airknife application of the cleansing agent PES-51 along with standard shoreline washing operations is likely to be the most effective cleanup technique given the structure of these particular beaches and the nature of the remaining oil. Village residents are strong proponents for using the cleansing agent PES-51. Technical experts agree that a cleansing agent will need to be used to effectively remove the weathered oil from the sites eight years after the spill. PES-51 is on EPA's National Contingency Plan Product Schedule and has also gone through the State of Alaska's Technology Protocols during a Regional Response Team (RRT) approved test on a shoreline near Chenega Bay in 1993.

The major component of PES-51 is d-limonene, a naturally occurring chemical that is the major component in oil of an orange and is also produced by a number of coniferous tree species. In these plants it is believed that the compound provides protection against insect pests in concert with other terpenes. D-limonene is used as a solvent for rosin, waxes and rubber. It is also widely used as a flavor and fragrance, and is listed as "generally recognized as safe" in food by the U.S. Food and Drug Administration. The available toxicity information for freshwater and marine/estuarine fish and invertebrates indicate that PES-51 is of relatively low acute toxicity.

Data collected during the 1993 test in Prince William Sound indicate that PES-51 caused no inhibition of microbial activity in sediments and that no solubilized oil constituents were detected in the seawater offshore of the test site during or immediately after treatment. Because PES-51 has a short half-life, relatively low solubility and inability to emulsify, chronic exposures or impacts from its use are not expected. In addition, most of the oiling zone on the beaches proposed for cleanup occurs high on the shorelines or in settings where intertidal life is scarce. The usual measures used to mitigate potential damage e.g., working on a rising tide, keeping waste out of the lower-intertidal, booming and collecting the oil/PES-51 mixture will be employed.

In terms of effectiveness, field observers at the 1993 test including representatives from the National Oceanic and Atmospheric Association, Alaska Department of Environmental Conservation, United States Coast Guard and residents from Chenega Bay were very positive

about the ability of PES-51 in removing the weathered crude oil. Chemical data collected showed that oil was reduced overall by 90%. Field observations since 1993 show a marked reduction in oiling as compared to the control site.

Alternative cleanup techniques, such as water washing, mechanical tilling and relocation, manual removal and bioremediation would likely be less effective at removing the oil than PES-51.

Issues:

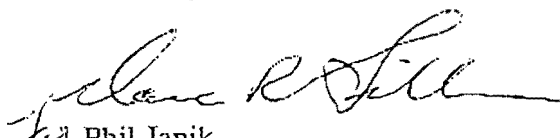
- Effects of additional cleanup on the recovery of injured species, particularly intertidal plants and animals.
- Effects on public health and safety of using PES-51.
- Noise and air emissions from generators, and other short term disruptions on area residents and beach users. There may be other issues of concern to the public and we would like to hear what your particular concerns are.

Decision:

The *Exxon Valdez* Trustee Council approved this project in June 1996. The environmental assessment will disclose the effects of the project and any alternative ways of removing the oil that are reasonable. Mitigation measures to minimize impacts will also be identified. The Alaska Regional Forester for the Forest Service, one of the Federal Trustees, will determine if there are no significant impacts from the project or whether an environmental impact statement should be prepared before the project proceeds. The Environmental Analysis will be available for review in February 1997.

Please return your comments by the close of business, Friday, January 17, 1997. Mail written comments to: *Exxon Valdez* Restoration Office, 645 G Street, Anchorage, AK. 99501. Copies of the Residual Oiling Workshop Report may be obtained from Cherri Womac at the *Exxon Valdez* Restoration Office, 278-8012. For specific questions or more information regarding this project, please contact Dianne Munson at the Alaska Department of Environmental Conservation, 269-3080.

Sincerely


for Phil Janik
Regional Forester

Please return your comments by the close of business, Friday, January 17, 1997.

Mail to: *Exxon Valdez* Restoration Office
645 G Street, Suite 401
Anchorage, Alaska 99501

COMMENTS

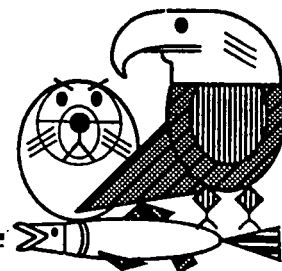
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Exxon Valdez Oil Spill Trustee Council

Restoration Office

645 G Street, Suite 401, Anchorage, Alaska 99501-3451

Phone: (907) 278-8012 Fax: (907) 276-7178



MEMORANDUM

To: Kent Wohl, USFWS Office of Migratory Bird Management

From: Stan Senner, Science Coordinator *Stan*
Joe Hunt, Communications Director

Subject: Bird Species Accounts for the *Restoration Notebook* Series

Date: December 13, 1996

For almost a year now, the Restoration Office has been planning to produce a series of accounts on key resources and services injured by the *Exxon Valdez* oil spill. The first two accounts are on harbor seals and marbled murrelets and are enclosed for your information. Please see the attached list of planned accounts and **possible** authors.

The *Restoration Notebook* series, as we are calling it, is intended to pull together information on the injury and recovery status of key injured resources and services and what has been done in the way of restoration activities. This semi-technical series is aimed at educated lay readers. These accounts are not intended for citation as scientific publications, though they must be scientifically sound, based on project reports and the literature. The *Restoration Notebook* will appear in a loose-leaf format and be put out electronically on the OSPIC website. We expect that the accounts will be updated periodically (e.g., every other year?).

We are eager to have help from you and members of your staff with several of the bird species accounts for this project. Specifically, we are inviting Tim Bowman, Phil Schempf, Lindsey Hayes, Brad Andres, and Bev Agler to prepare first drafts, help secure photos and figures, and review subsequent drafts leading to the final product. We will supply the scientific review (with the Chief Scientist), editing and proof-reading, formatting, and polishing. We do most of the work after the initial draft is prepared.

In terms of timing, we aim to get as many counts moving as quickly as we can, but our goal is to at least have a draft of each account in hand by the end of February. We know that this is a busy time of year, but so is most of the rest of the year!

Trustee Agencies

State of Alaska: Departments of Fish & Game, Law, and Environmental Conservation

United States: National Oceanic and Atmospheric Administration, Departments of Agriculture and Interior

Page 2
Kent Wohl
December 13, 1996

Kent, we thought it was most appropriate to channel this request through you. Would you look over the attached list, consider this request, and let Stan know what is possible and appropriate for MBMO staff? We can be reached at the telephone and fax numbers on this letterhead or by e-mail (<stans@oilspill.state.ak.us> <joe@oilspill.state.ak.us>). If possible, please contact Stan about your participation no later than Friday, January 3.

You may ask whether the Restoration Office is able to pay for the necessary staff time. We cannot, but it is our hope that long-time investigators in the EVOS restoration program will appreciate the importance of summarizing this information in a way that is accessible to the general public and will be willing and eager to help. In addition, you should be aware that this project is a high priority of both the Trustee Council and the Public Advisory Group. If it simply is not possible for your staff to help in a reasonable time, let's discuss the alternatives.

The enclosed accounts by Kathy Frost and Kathy Kuletz can serve as style models. If you have questions about style, please call Joe. We also have enclosed a generic outline for the substance of the account. You will need to adapt this to your own resource, and, in the case of subsistence, it won't help much at all. If you have questions about substance, give Stan a call.

Thank you for considering this request. Again, please let Joe know whether you and when you can help with this project.

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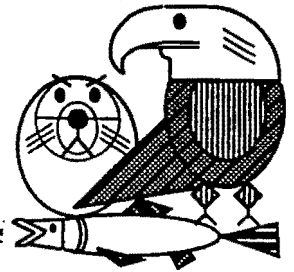
cc: Molly McCammon, Executive Director
Dr. Robert Spies, Chief Scientist
Catherine Berg, DOI Liaison
Dr. David Irons, MBMO

Exxon Valdez Oil Spill Trustee Council

Restoration Office

645 G Street, Suite 401, Anchorage, Alaska 99501-3451

Phone: (907) 278-8012 Fax: (907) 276-7178



MEMORANDUM

To: Jim Bodkin and Brenda Ballachey
U.S. Geological Survey-Biological Resources Division

From: Stan Senner, Science Coordinator *Stan*
Joe Hunt, Communications Director

Subject: Accounts on Injured Resources and Services for the Restoration Notebook Series

Date: December 13, 1996

For almost a year now, the Restoration Office has been planning to produce a series of accounts on key resources and services injured by the *Exxon Valdez* oil spill. The first two accounts, harbor seals and marbled murrelets, are enclosed for your information.

The *Restoration Notebook* series, as we are calling it, is intended to pull together information on the injury and recovery status of key injured resources and services and what has been done in the way of restoration activities. This semi-technical series is aimed at educated lay readers. These accounts are not intended for citation as scientific publications, though they must be scientifically sound, based on project reports and the literature. The *Restoration Notebook* will appear in a loose-leaf format and be put out electronically on the OSPIC website. We expect that the accounts will be updated periodically (e.g., every other year?).

We are eager to have your help with the sea otter account for this project. Specifically, we invite you to prepare the first draft of the account, help secure photos and figures, and review subsequent drafts leading to the final product. We will supply the scientific review (with the Chief Scientist), editing and proof-reading, formatting, and polishing. We do most of the work after the initial draft is prepared.

In terms of timing, we are to get as many counts moving as quickly as we can, but our goal is to at least have a draft of each account in hand by the end of February. We know that this is a busy time of year, but so is most of the rest of the year. Please consider this request and let Stan know whether you can commit to producing a draft and, if so, when you can do it. We can be reached at the telephone and fax numbers on this letterhead or by e-mail (<stans@oilspill.state.ak.us> <joe@oilspill.state.ak.us>). If possible, please contact Stan about your participation no later than Friday, January 3.

Trustee Agencies

State of Alaska: Departments of Fish & Game, Law, and Environmental Conservation
United States: National Oceanic and Atmospheric Administration, Departments of Agriculture and Interior

Page 2
Bodkin/Ballachey
December 13, 1996

You may ask whether the Restoration Office is able to pay for your time. We cannot, but it is our hope that as long-time investigators in the EVOS restoration program you will appreciate the importance of summarizing this information in a way that is accessible to the general public and will be willing and eager to help. In addition, you should be aware that this project is a high priority of both the Trustee Council and the Public Advisory Group. If it simply is not possible for you to help in a reasonable time, let's discuss the alternatives.

The enclosed accounts by Kathy Frost and Kathy Kuletz can serve as style models. If you have questions about style, please call Joe. We also have enclosed a generic outline for the substance of the account. You will need to adapt this to your own resource, and, in the case of subsistence, it won't help much at all. If you have questions about substance, give Stan a call.

Thank you for considering this request. Again, please let Joe know whether you and when you can help with this project.

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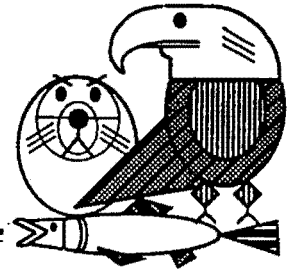
cc: Molly McCammon, Executive Director
Dr. Robert Spies, Chief Scientist
Lisa Thomas, USGS-BRD

Exxon Valdez Oil Spill Trustee Council

Restoration Office

645 G Street, Suite 401, Anchorage, Alaska 99501-3451

Phone: (907) 278-8012 Fax: (907) 276-7178



MEMORANDUM

To: G. Vernon Byrd, Alaska Maritime NWR

From: Stan Senner, Science Coordinator *Stan*
Joe Hunt, Communications Director

Subject: Murre Account for the *Restoration Notebook* Series

Date: December 13, 1996

For almost a year now, the Restoration Office has been planning to produce a series of accounts on key resources and services injured by the *Exxon Valdez* oil spill. The first two accounts (still in draft form) are on harbor seals and marbled murrelets and are enclosed for your information.

The *Restoration Notebook* series, as we are calling it, is intended to pull together information on the injury and recovery status of key injured resources and services and what has been done in the way of restoration activities. This semi-technical series is aimed at educated lay readers. These accounts are not intended for citation as scientific publications, though they must be scientifically sound, based on project reports and the literature. The *Restoration Notebook* will appear in a loose-leaf format and be put out electronically on the OSPIC website. We expect that the accounts will be updated periodically (e.g., every other year?).

We are eager to have help from you and Dave Roseneau with the common murre account for this series. Specifically, we invite you to prepare the first draft of the account, help secure photos and figures, and review subsequent drafts leading to the final product. We will supply the scientific review (with the Chief Scientist), editing and proof-reading, formatting, and polishing. We will do most of the work after the initial draft is prepared.

In terms of timing, we aim to get as many counts moving as quickly as we can, but our goal is to at least have a draft of each account in hand by the end of February. We know that this is a busy time of year, but so is most of the rest of the year! Please consider this request and let Stan know whether you can commit to producing a draft and, if so, when you can do it. You can reach us at the telephone and fax numbers on this letterhead or by e-mail (<stans@oilspill.state.ak.us> <joe@oilspill.state.ak.us>). If possible, please contact Stan about your participation no later than Friday, January 3.

Trustee Agencies

State of Alaska: Departments of Fish & Game, Law, and Environmental Conservation
United States: National Oceanic and Atmospheric Administration, Departments of Agriculture and Interior

Page 2
Byrd/Murre
December 13, 1996

You may ask whether the Restoration Office is able to pay for your time. We cannot, but it is our hope that as long-time investigators in the EVOS restoration program you will appreciate the importance of summarizing this information in a way that is accessible to the general public and will be willing and eager to help. In addition, you should be aware that the *Restoration Notebook* is a high priority of both the Trustee Council and the Public Advisory Group. If it simply is not possible for you to help in a reasonable time, let's discuss the alternatives.

The enclosed accounts by Kathy Frost and Kathy Kuletz can serve as style models. If you have questions about style, please call Joe. We also have enclosed a generic outline for the substance of the account. You will need to adapt this to your own resource, and, in the case of subsistence, it won't help much at all. If you have questions about substance, give Stan a call.

Thank you for considering this request. Again, please let Joe know whether you and when you can help with this project.

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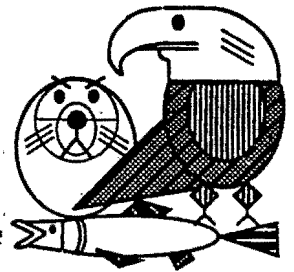
cc: Molly McCammon, Executive Director
Dr. Robert Spies, Chief Scientist
Catherine Berg, DOI Liaison
Dave Roseneau, AMNWR

Exxon Valdez Oil Spill Trustee Council

Restoration Office

645 G Street, Suite 401, Anchorage, Alaska 99501-3451

Phone: (907) 278-8012 Fax: (907) 276-7178



MEMORANDUM

To: Bruce Wright, Program Manager
National Marine Fisheries Service

From: Stan Senner, Science Coordinator *Stan*
Joe Hunt, Communications Director

Subject: Accounts for the Restoration Notebook Series

Date: December 13, 1996

For almost a year now, the Restoration Office has been planning to produce a series of accounts on key resources and services injured by the *Exxon Valdez* oil spill. The first two accounts are on harbor seals and marbled murrelets and are enclosed for your information. Please see the attached list of planned accounts and possible authors.

The *Restoration Notebook* series, as we are calling it, is intended to pull together information on the injury and recovery status of key injured resources and services and what has been done in the way of restoration activities. This semi-technical series is aimed at educated lay readers. These accounts are not intended for citation as scientific publications, though they must be scientifically sound, based on project reports and the literature. The *Restoration Notebook* will appear in a loose-leaf format and be put out electronically on the OSPIC website. We expect that the accounts will be updated periodically (e.g., every other year?).

We are eager to have help with this project from you and other NMFS staff. Specifically, we invite Charles O'Clair, Alex Wertheimer, and Mark Carl to help prepare the first drafts of the accounts for the subtidal community, pink salmon, and Pacific herring, respectively. In addition, we would need help securing photos and figures and reviewing subsequent drafts leading to the final product. We will supply the scientific review (with the Chief Scientist), editing and proof-reading, formatting, and polishing. We do most of the work after the initial draft is prepared.

In terms of timing, we aim to get as many counts moving as quickly as we can, but our goal is to at least have a draft of each account in hand by the end of February. We know that this is a busy time of year, but so is most of the rest of the year! Would you and Jeep Rice consider this request and let Stan know whether these staff members can commit to producing the requested drafts, and, if so, when they can be done? We can be reached at the telephone and fax numbers

Trustee Agencies

State of Alaska: Departments of Fish & Game, Law, and Environmental Conservation
United States: National Oceanic and Atmospheric Administration, Departments of Agriculture and Interior

Page 2
Bruce Wright
December 13, 1996

on this letterhead or by e-mail (<stans@oilspill.state.ak.us> <joeh@oilspill.state.ak.us>). If possible, please contact Stan about participation by these NMFS staff members no later than Friday, January 3.

You may ask whether the Restoration Office is able to pay for the necessary staff time. We cannot, but it is our hope that long-time investigators in the EVOS restoration program will appreciate the importance of summarizing this information in a way that is accessible to the general public and will be willing and eager to help. In addition, you should be aware that this project is a high priority of both the Trustee Council and the Public Advisory Group. If it simply is not possible to produce drafts in a reasonable time, let's discuss the alternatives.

The enclosed accounts by Kathy Frost and Kathy Kuletz can serve as style models. If you have questions about style, please call Joe. We also have enclosed a generic outline for the substance of the account. You will need to adapt this to your own resource, and, in the case of subsistence, it won't help much at all. If you have questions about substance, give Stan a call.

Thank you for considering this request. Again, please let Stan know whether and when NMFS staff can help with this project.

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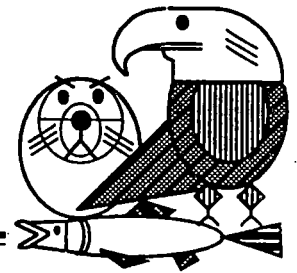
cc: Molly McCammon, Executive Director
Dr. Robert Spies, Chief Scientist
Dr. Stanley Rice, NMFS

Exxon Valdez Oil Spill Trustee Council

Restoration Office

645 G Street, Suite 401, Anchorage, Alaska 99501-3451

Phone: (907) 278-8012 Fax: (907) 276-7178



MEMORANDUM

TO: Annalee McConnell
Office of Management and Budget

FROM: Molly McCammon
Executive Director

Date: December 17, 1996

RE: RPL 10-7-4038
Appropriation Citation: Chapter 123, SLA 96, page 44, line 1
Statutory Citation: AS 37.14.405(b)

On behalf of the Department of Natural Resources, authority to receive and expend \$525,000 from *Exxon Valdez* oil spill settlement trust funds is requested for acquisition of two small parcels.

The acquisition of land is a means of restoring not only injured resources, but also the services (human uses) dependent on those resources. The small parcel program was initiated in the spring of 1994 and provides landowners the opportunity to nominate parcels at fair market value. Parcels are evaluated and ranked according to the potential benefits that purchase would provide to injured resources and services.

At the direction of the Trustee Council, an agency receives authorization to enter preliminary negotiations with the landowner and determine the fair market value of the parcel. Once the fair market appraisal is completed and accepted by both federal and state review appraisers, final Trustee Council approval is required prior to purchase. Consistent with the *Exxon Valdez Oil Spill Trustee Council Procedures*, and after public review and comment, the Trustee Council has authorized funds to acquire the Horseshoe Bay parcel (PWS11) and the Ninilchik parcel (KEN 1005).

Based on the appraised fair market value, the sum of \$475,000 is requested for acquisition of the Horseshoe Bay parcel. This parcel is located on LaTouche Island and is surrounded by the Horseshoe Bay State Marine Park. The parcel consists of 315 acres and contains 1600 feet of bay frontage. In addition, the mouth of an anadromous fish stream is located on the parcel.

Trustee Agencies

State of Alaska: Departments of Fish & Game, Law, and Environmental Conservation
United States: National Oceanic and Atmospheric Administration, Departments of Agriculture and Interior

The Horseshoe Bay State Marine Park is used by residents of nearby Chenega Bay and residents and workers at the San Juan Hatchery, as well as the general public. Use increases during the hunting season and reaches its peak during commercial fishery openings. Since the best anchorage in the bay is immediately adjacent to this parcel, acquisition will ensure public access to the uplands and historic sites on LaTouche Island via existing trails. In addition, the parcel will be managed to protect pink salmon that spawn in the stream.

Based on the appraised fair market value, the sum of \$50,000 is requested for acquisition of the Ninilchik parcel. The Ninilchik parcel is located immediately adjacent to the Ninilchik State Recreation Area and consists of 16 acres.

The Ninilchik River runs through the parcel and is spawning ground for pink salmon and Dolly Varden. Current use threatens to damage habitat by trampling streambanks and denuding them of vegetation. Acquisition of the parcel will allow agencies to better manage streambank fishing and thereby protect the habitat.

In accordance with AS 37.14.405, authority to receive and expend is requested conditioned on compliance with the program review provision of AS 37.07.080(h). Funding was not requested in the budget approved by the Legislature, as the evaluation and appraisal had not been completed for these parcels. Approval of this request will not require the expenditure of state general funds.

As a capital project, authority to receive and expend subject to AS 37.25.020 is requested. If you have any questions about this RPL, please do not hesitate to contact me at 278-8012.

cc: Nico Bus, ADNR
Carol Fries, ADNR

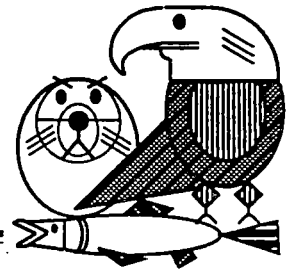
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Exxon Valdez Oil Spill Trustee Council


Restoration Office

645 G Street, Suite 401, Anchorage, Alaska 99501-3451

Phone: (907) 278-8012 Fax: (907) 276-7178



MEMORANDUM

TO: Max Mertz
FROM: Eric F. Myers 
DATE: 12/12/96
SUBJ: Small Parcel Information

Please find attached copies of letters from the USFWS to Molly McCammon regarding each of the following small parcels:

KAP 135/Kapjohn
KAP 105, 142/Three Saints Bay
KAP 99/Kiliuda Bay - Shugak
KEN 54/Salamatof

Each of the letters references the date the Purchase Agreement was signed for each of the respective parcels.

I spoke with Steve Schuck/USFWS Realty Specialist (789-3426) and informed him of your interest in obtaining a copy of the Purchase Agreements for your records. He indicated that they were pulling together information for you already and that he would work to ensure that these documents were included. (The person actually putting these materials together for you is out until Monday and Steve suggested calling him on Tuesday.)

I hope that this is helpful. Let me know if I can be of further assistance.

attachments

cc: Steve Schuck (w/o attachments)

Trustee Agencies

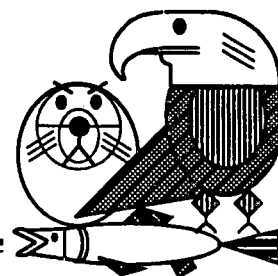
State of Alaska: Departments of Fish & Game, Law, and Environmental Conservation
United States: National Oceanic and Atmospheric Administration, Departments of Agriculture and Interior

Exxon Valdez Oil Spill Trustee Council

Restoration Office

645 G Street, Suite 401, Anchorage, Alaska 99501-3451

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MEMORANDUM

To: Mary Anne Bishop, U.S. Forest Service
From: Molly McCammon, Executive Director
Date: December 12, 1996
Subject: Request to Collect Glaucous-winged Gulls

This memorandum authorizes you to proceed with the collection of up to 60 glaucous-winged gulls on Montague Island as requested in the memorandum faxed to me on November 26, 1996. This request was reviewed and recommended favorably by the Chief Scientist, Dr. Robert Spies, and discussed by the Public Advisory Group. In addition, the Trustee Council was notified of my intent to approve this request.

You have provided a copy of the Forest Service's NEPA compliance document; please also send copies of your federal and state collecting permits to the Science Coordinator, Stan Senner. Thank you for your cooperation in working through the Trustee Council's process for requests to collect specimens. We look forward to hearing further results from the avian copredator component of the Nearshore Vertebrate Predator Project (97025).

cc: Dr. Dave Gibbons, USFS
Lisa Thomas, USGS-BRD
Dan Esler, USGS-BRD
Dr. Robert Spies, Chief Scientist

Trustee Agencies

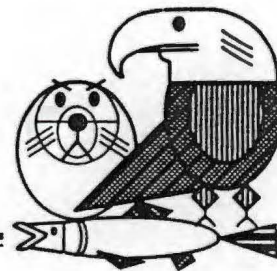
State of Alaska: Departments of Fish & Game, Law, and Environmental Conservation
United States: National Oceanic and Atmospheric Administration, Departments of Agriculture and Interior

Exxon Valdez Oil Spill Trustee Council

Restoration Office

645 G Street, Suite 401, Anchorage, Alaska 99501-3451

Phone: (907) 278-8012 Fax: (907) 276-7178



FAX COVER SHEET

To: Mary Anne Bishop
Lisa Thomas Number: 907-424-7214

From: Nelly McCommon Date: Dec 12, 1996

Comments: _____ Total Pages: 2

FAXED

*The others
were mailed*

HARD COPY TO FOLLOW _____

Document Sent By: Keri Dike

3/27/96

Trustee Agencies

State of Alaska: Departments of Fish & Game, Law, and Environmental Conservation

United States: National Oceanic and Atmospheric Administration, Departments of Agriculture and Interior

12/12/96

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EV Restoration

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*** MULTI TRANSACTION REPORT ***

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L. THOMAS

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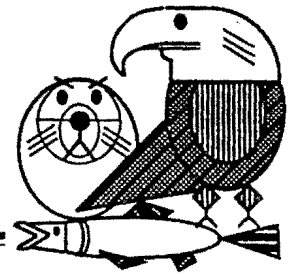
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Exxon Valdez Oil Spill Trustee Council

Restoration Office

645 G Street, Suite 401, Anchorage, Alaska 99501-3451

Phone: (907) 278-8012 Fax: (907) 276-7178



December 11, 1996

Mayor Dave Cobb
City of Valdez
P.O. Box 307
Valdez, Alaska 99686

Dave
Dear Mayor Cobb,

Thank you for your recent letter regarding the PWS 1056/Blondeau small parcel nomination. I checked on the status of the parcel and determined that, in fact, it had not yet been evaluated and ranked.

Although the parcel was nominated some time ago, the interagency evaluation group, comprised of representatives from each of four agencies representing both the state and federal government, only meets infrequently after a number of new nominations have been received. It is my understanding that the group is scheduled to meet next week and I have distributed a copy of your comments to make sure that the evaluation includes consideration of the values you described in your letter.

Again, thank you for sharing your insights regarding this parcel. I will get back to you after that meeting. If you have further questions, please let me know or contact Eric Myers of my staff in the Anchorage Restoration Office at 278-8012.

Sincerely,

Molly McCammon

Molly McCammon
Executive Director

cc: Carol Fries
Claudia Slater
Dave Gibbons

Trustee Agencies

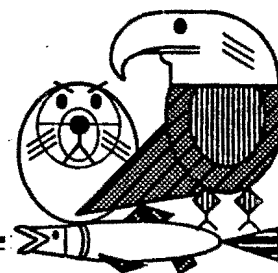
State of Alaska: Departments of Fish & Game, Law, and Environmental Conservation
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Exxon Valdez Oil Spill Trustee Council

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Phone: (907) 278-8012 Fax: (907) 276-7178



December 11, 1996

Chancellor Lee Gorsuch
University of Alaska - Anchorage (Admin 216)
3211 Providence Drive
Anchorage, Alaska 99508

Dear Chancellor ^{Lee}Gorsuch,

The Trustee Council is again sponsoring its annual Restoration Workshop to critically assess the progress of our restoration program. This year, the workshop is scheduled for January 23 - 25, 1997 and the theme of the workshop is built around our ecosystem-based investigations.

We are very fortunate to have Dr. Kai Lee as our keynote speaker. Dr. Lee is the director of the Center for Environmental Studies at Williams College and a highly regarded leader in the field of ecosystem management who has played a key role in some of the nation's most prominent resource management conflicts. In particular, Dr. Lee has been deeply involved in the Pacific Northwest effort to balance the conflicts surrounding hydropower development and the maintenance of wild salmon populations. Dr. Lee is credited with having coined the phrase "adaptive management" — a guiding principal used by the Trustee Council to implement our restoration program over time. He is also the author of the highly acclaimed *Compass and Gyroscope: Integrating science and politics for the environment*.

Dr. Lee has also earned a reputation within the academic community as a respected author and professor, and I wanted to be sure that you were aware of his visit. It occurred to me that you, or members of the University faculty, may have an interest in visiting with Dr. Lee during his stay in Anchorage. Please give me a call when you have a moment if you would like us to try and arrange something. For your reference, I have enclosed a copy of our working draft agenda as well as Dr. Lee's biographical sketch.

Sincerely,

Molly McCammon
Executive Director

Trustee Agencies

State of Alaska: Departments of Fish & Game, Law, and Environmental Conservation

United States: National Oceanic and Atmospheric Administration, Departments of Agriculture and Interior

Biographical sketch

Kai N. Lee is professor of environmental studies and director of the Center for Environmental Studies (CES) at Williams College, an independent liberal-arts college in northwestern Massachusetts. The 28-year-old center is one of the oldest such programs in the U.S., offering a concentration in environmental studies, to be taken in conjunction with a disciplinary major. CES also includes the Matt Cole Memorial Library, located at Kellogg House, and the 2400-acre Hopkins Memorial Forest northwest of campus, a natural area used for research, teaching, and public recreation.

Born in New York in 1945, Lee was educated in experimental physics at Columbia (A.B. *magna cum laude*, 1966) and Princeton (Ph.D., 1971). In 1971 he was awarded a research training fellowship by the Social Science Research Council, which enabled Lee to spend two years studying the social sciences at the University of California, Berkeley. Lee has continued to teach and conduct research on the relationship between technological change and democratic governance. Lee is adjunct professor of political science at Williams, in addition to his principal assignments at the college.

Lee taught political science and environmental studies at the University of Washington from 1973 until 1990. He spent a sabbatical year in 1990-91 as visiting professor and research fellow at the Kyoto Institute of Economic Research, and took his present post at Williams in 1991. His book *Compass and Gyroscope: Integrating science and politics for the environment*, was published by Island Press in 1993. Its ideas have been influential in the planning of "adaptive management areas" in the forest lands of the Pacific Northwest, as well as in the management of Pacific salmon. More recently, Lee was a member of the panel of the National Academy of Sciences that wrote *Upstream: Salmon and Society in the Pacific Northwest* (National Academy Press, 1995), a comprehensive review of the problems that confront the symbolically, economically, and environmentally important salmon of the Pacific coast.

In addition to Williams, Lee has taught at Kyoto University, Stanford, Berkeley, and in one of the first on-line education programs at the Western Behavioral Sciences Institute; he has been Bank of Montreal lecturer at Trent University, Kaeser lecturer at the University of Wisconsin, and Aldrich lecturer at Memorial University of Newfoundland. His research has included work on radioactive waste management and environmental dispute resolution, in addition to environmental and energy policy. He is the co-author of two books: with Donna L. Klemka and Marion E. Marts, *Electric Power and the Future of the Pacific Northwest* (University of Washington Press, 1980); and, with Edward Miles and Blaine Carlin, *Sub-seabed Disposal of High-Level Nuclear Waste: An Assessment of Policy Issues for the United States* (Berkeley: University of California Institute of International Studies, 1985).

In 1983 Lee was appointed by Governor John Spellman to represent the state of Washington on the Northwest Power Planning Council; he was subsequently reappointed by Governor Booth Gardner and served until 1987. At the council Lee developed two strategic planning ideas that have affected public policy. His article, "The Path along the Ridge," 58 *Washington Law Rev.* 317 (1983), sets out a flexible planning approach adopted by the council in its original Northwest Conservation and Electric Power Plan. Flexible planning is a principal ingredient of "least-cost planning," an analytical and regulatory framework widely used by U.S. electric utilities and state regulatory authorities. In "Adaptive Management: Learning from the Columbia River Basin Fish and Wildlife Program," 16 *Environmental Law* 431 (1986), Lee and co-author Jody Lawrence set out an experimental approach to rebuilding the salmon runs of the Columbia Basin. This policy was adopted by the Planning Council in 1984 and continues to be an important component of resource management in the Pacific Northwest.

Lee has served on eight committees of the National Academy of Sciences: the Environmental Studies Board (1980-82), the Board on Radioactive Waste Management (1983-88), the Committee to Assess Safety and Technical Issues at Department of Energy Reactors (1986-87), the mitigation sub-panel of the Panel on Policy Implications of Greenhouse Warming (1989-91), the Committee on Environmental Research (1991-93), the Committee on Protection and Management of Pacific Northwest Anadromous Salmonids (1993-95), and the Board on Environmental Studies and Toxicology (1993-95). Lee now serves on the Board on Sustainable Development, where he is a member of the executive committee of the board. In 1989 Lee was a member of the United Nations Environment Programme committee reviewing economic aspects of the Montreal Protocol on Substances that Deplete the Ozone Layer.

1997 Restoration Workshop
Draft Agenda (12/10/96)¹

DRAFT

Day 1, Thursday, January 23

- | | |
|------------|---|
| 8:00 am | Registration |
| 8:30 | Introduction and Annual Report on EVOS Program, Announcements
<i>Molly McCammon, Executive Director</i> |
| 9:00 | Trustee Perspective
<i>Phil Janik (USFS), Federal Trustee</i> |
| 9:15 | Introduction to Ecosystem Projects and Ecological Syntheses
<i>Dr. Robert Spies, Chief Scientist</i> |
| 9:30 | Break |
| 10:00 | Sound Ecosystem Assessment (SEA, /320)
<i>Dr. Ted Cooney and others</i> |
| 12:00 Noon | Buffet Lunch (in hotel) |
| 1:15 pm | Alaska Predator Ecosystem Experiment (APEX, /163)
<i>Dr. David Duffy and others.</i> |
| 3:15 | Break |
| 3:45 | Herring Reproductive Impairment, 96074, <i>M. Carls</i>
Herring Disease, 96162, <i>Dr. R. Kocan</i>
Cutthroat Trout/Dolly Varden Life History Forms, 96145, <i>Dr. G. Reeves</i>
Chugach Region Clam Restoration, 96131, <i>P. Brown-Schwalenberg and J. Hetrick</i> |
| 5:30-7:30 | Reception and Poster Session |

¹Break-out rooms will be available for side meetings on Thursday and Friday. One such room will be used by the Community Facilitators for meetings with individual PIs to exchange information about subsistence resources and to discuss needs for traditional ecological knowledge.

DRAFT

Day 2, Friday, January 24

- 8:00 am Killer Whale Contaminants & Genetics, 96012, *C. Matkin*
Port Dick Spawning Channel, 96139A2, *N. Dudiak and M. Dickson*
- 8:40 Nearshore Vertebrate Predator Project (NVP, /025)
Dr. Leslie Bartels and others
- 10:40 Break
- 11:00 Keynote address: Natural and Social Scales in Ecosystem Management
Dr. Kai N. Lee, Center for Environmental Studies, Williams College
- 12:00 Noon Buffet Lunch (in hotel)
- 1:30 Panel: Perspectives on Ecosystem Projects and Research Needed by
Resource Managers
Representatives of NMFS (Balsiger), ADFG, USFWS (Martin), USFS
- 2:30 Panel: Building and Applying Ecological Models
*Dr. Andy Gunther (moderator); [the following are not fully confirmed]
Drs. S. Pimm (UTenn) and D. Pauly (UBC); Adkison (NVP), Ainley
(APEX), and Patrick (SEA)*
- 3:45 Main Ballroom must be cleared by 4 pm (conflicting event)
- 7:00-9:00 Informal Brainstorming Session: Is Another Ecosystem Shift Underway?
Optional session held in one of the breakout rooms.

Day 3, Saturday, January 25

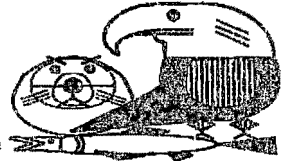
- 8:30 am Marine Bird Boat Surveys, 96159, *B. Agler & S. Kendall*
Status & Ecology of Kittlitz's Murrelet, 96142, *Dr. R. Day*
Harlequin Duck Genetics, 96161, *B. Goatcher & K. Scribner*
Harbor Seal Fatty Acids, 96064, *K. Frost*
- 9:50 Break
- 10:20 PWS Youth Area Watch, 96210, *Mel Henning and students*
Archaeological Site Stewardship, 96149, *D. Reger*

DRAFT

- 11:00 Reactions from Peer Reviewers
Drs. Spies, Peterson, Haney, Rose, Wheeler, and Mundy
- 12:00 Noon Closing Remarks (for the technical workshop)
Molly McCammon, Executive Director
- 12:15 Lunch (on your own)
- 2:00 Welcome
State Trustee?
- 2:10 Overview of Restoration Program and Update on Injury & Recovery
Molly McCammon, Executive Director
Stan Senner, Science Coordinator
- 2:30 An Ecosystem Approach to Restoration
Dr. Robert Spies, Chief Scientist
- 2:40 Scientists at Work
Killer whales: Counting - Craig Matkin, 96012
Harbor seals: Biosampling - Kate Wynne, 96244
Clams: Hatchery Production - Carmen Young, 96131
Sockeye: Genetic Sampling - Lisa Seeb, 96255
Marbled Murrelets: Climbing Trees - Kathy Kuletz, 96031
Harlequin Ducks: Kayak Roundup - Dan Esler, 96025
- 3:30 Alaska SeaLife Center
John Hendricks, Executive Director
- 3:40 For More Information--How to Get Involved
Molly McCammon, Executive Director
- 3:45 Panel: Questions and Answers
Molly McCammon, Robert Spies, Stan Senner, Martha Vlasoff, and other presenters
- 4:30 Adjourn

Exxon Valdez Oil Spill Trustee Council

Restoration Office
645 G Street, Suite 401, Anchorage, Alaska 99501-3451
Phone: (907) 276-8012 Fax: (907) 276-7176



FAX COVER SHEET

To: Lee Gorsuch Number: 786-6123

From: Eric Myers/Molly McCamm Date: 1-7-97

Comments: Total Pages: 6

This is the letter Eric and Molly wanted
you to see.

Please deliver ASAP.

Document Sent By: Rebecca

1/9/97

Trustee Agencies

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United States: National Oceanic and Atmospheric Administration, Departments of Agriculture and Interior

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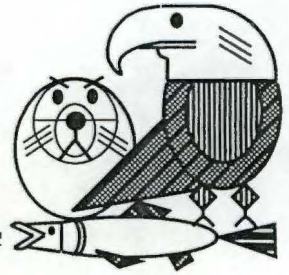
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Document Sent By: Rebecca

9/9/94

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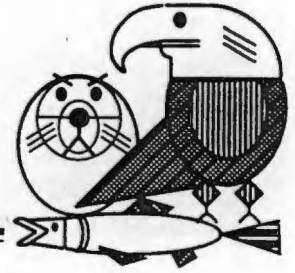
State of Alaska: Departments of Fish & Game, Law, and Environmental Conservation
United States: National Oceanic and Atmospheric Administration, Departments of Agriculture and Interior

Exxon Valdez Oil Spill Trustee Council

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Phone: (907) 278-8012 Fax: (907) 276-7178



MEMORANDUM

To: Agency Liaisons and Restoration Work Force
From: Molly McCammon, Executive Director
Subject: 1997 Restoration Workshop
Date: December 11, 1996

*Also
mailed to the
4 legal
agencies*

The agenda for the Restoration Workshop is rapidly taking shape, and I have enclosed the latest version (December 10) for your information. There are still a few details to nail down, but the basic agenda is now set.

Principal investigators and project leaders funded in either 1996 or 1997 have been mailed two notices about the workshop (November 6 and 26). A third notice will be mailed next week. The Trustee Council and Public Advisory Group members also have been notified, and a flier (copy enclosed) was mailed to the list of nearly 500 recipients for the 1997 *Science Invitation*. Please circulate copies of the flier and this draft agenda to administrators, resource managers, and others in your agency who might be interested in the workshop. We don't necessarily know who all of the appropriate people are, so your help would be greatly appreciated. Finally, the workshop will be advertised in the newspaper.

You might take special note of the agenda for the "public" session on Saturday afternoon. This event is something of an experiment, but Catherine Berg, Lisa Thomas, Sandra Schubert, Joe Hunt, and Martha Vlasoff have worked hard to come up with a creative and entertaining agenda. We encourage everyone to stay for this event, and to bring your children.

Four reminders:

★ Abstracts for projects funded in FY 1996 are due to Stan Senner no later than Monday, December 16. After that date, Stan will circulate a list of abstracts not received and ask for your help in getting a response from every project.

★ The deadline for room reservations at the conference rate at the Hotel Captain Cook is January 7. Please make sure that out-of-town participants from your agency make their reservations by then: 1-800-478-3100 (from outside of Alaska, 1-800-843-1950). Ask for the rate for Group No. 52519.

Trustee Agencies

State of Alaska: Departments of Fish & Game, Law, and Environmental Conservation

United States: National Oceanic and Atmospheric Administration, Departments of Agriculture and Interior

Page 2
RWF/Workshop
December 11, 1996

★If your PIs or agency plan to use computer displays at the workshop, please also let Stan know as soon as possible.

★Finally, please ask all participants to register in advance by calling Keri Hile at the Restoration Office (907/278-8012) by January 7.

If you have last-minute comments or questions about the enclosed draft agenda, please let Stan know as soon as possible. Thank you.

encl: (2)



EXXON VALDEZ OIL SPILL
TRUSTEE COUNCIL

1997
Restoration
Workshop

JANUARY 23-25

ANCHORAGE, ALASKA

It's time to
make plans for
the premier
science event
of the year.

- The Fourth Annual *Exxon Valdez* Oil Spill Restoration Workshop will be held January 23-25 at the Hotel Captain Cook.
- Telephone the Hotel Captain Cook to make reservations. From inside Alaska call 1-800-478-3100. From outside Alaska call 1-800-843-1950. Room rates are \$75 single/\$85 double. Ask for the special rate for Group No. 52519.
- Open to Restoration Project Leaders, Principal Investigators, Restoration Work Force members, Agency Liaisons, Public Advisory Group members, interested members of the public.
- **IMPORTANT!!** Call the Restoration Office (907) 278-8012 to pre-register in order to ensure you have a place at the workshop.

1997 Restoration Workshop
Draft Agenda (12/10/96)¹

DRAFT

Day 1, Thursday, January 23

- | | |
|------------|---|
| 8:00 am | Registration |
| 8:30 | Introduction and Annual Report on EVOS Program, Announcements
<i>Molly McCammon, Executive Director</i> |
| 9:00 | Trustee Perspective
<i>Phil Janik (USFS), Federal Trustee</i> |
| 9:15 | Introduction to Ecosystem Projects and Ecological Syntheses
<i>Dr. Robert Spies, Chief Scientist</i> |
| 9:30 | Break |
| 10:00 | Sound Ecosystem Assessment (SEA, /320)
<i>Dr. Ted Cooney and others</i> |
| 12:00 Noon | Buffet Lunch (in hotel) |
| 1:15 pm | Alaska Predator Ecosystem Experiment (APEX, /163)
<i>Dr. David Duffy and others.</i> |
| 3:15 | Break |
| 3:45 | Herring Reproductive Impairment, 96074, <i>M. Carls</i>
Herring Disease, 96162, <i>Dr. R. Kocan</i>
Cutthroat Trout/Dolly Varden Life History Forms, 96145, <i>Dr. G. Reeves</i>
Chugach Region Clam Restoration, 96131, <i>P. Brown-Schwalenberg and J. Hetrick</i> |
| 5:30-7:30 | Reception and Poster Session |

¹Break-out rooms will be available for side meetings on Thursday and Friday. One such room will be used by the Community Facilitators for meetings with individual PIs to exchange information about subsistence resources and to discuss needs for traditional ecological knowledge.

DRAFT

Day 2, Friday, January 24

- 8:00 am Killer Whale Contaminants & Genetics, 96012, *C. Matkin*
Port Dick Spawning Channel, 96139A2, *N. Dudiak and M. Dickson*
- 8:40 Nearshore Vertebrate Predator Project (NVP, /025)
Dr. Leslie Bartels and others
- 10:40 Break
- 11:00 Keynote address: Natural and Social Scales in Ecosystem Management
Dr. Kai N. Lee, Center for Environmental Studies, Williams College
- 12:00 Noon Buffet Lunch (in hotel)
- 1:30 Panel: Perspectives on Ecosystem Projects and Research Needed by
Resource Managers
Representatives of NMFS (Balsiger), ADFG, USFWS (Martin), USFS
- 2:30 Panel: Building and Applying Ecological Models
*Dr. Andy Gunther (moderator); [the following are not fully confirmed]
Drs. S. Pimm (UTenn) and D. Pauly (UBC); Adkison (NVP), Ainley
(APEX), and Patrick (SEA)*
- 3:45 Main Ballroom must be cleared by 4 pm (conflicting event)
- 7:00-9:00 Informal Brainstorming Session: Is Another Ecosystem Shift Underway?
Optional session held in one of the breakout rooms.

Day 3, Saturday, January 25

- 8:30 am Marine Bird Boat Surveys, 96159, *B. Agler & S. Kendall*
Status & Ecology of Kittlitz's Murrelet, 96142, *Dr. R. Day*
Harlequin Duck Genetics, 96161, *B. Goatcher & K. Scribner*
Harbor Seal Fatty Acids, 96064, *K. Frost*
- 9:50 Break
- 10:20 PWS Youth Area Watch, 96210, *Mel Henning and students*
Archaeological Site Stewardship, 96149, *D. Reger*

DRAFT

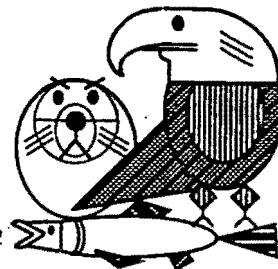
- 11:00 Reactions from Peer Reviewers
Drs. Spies, Peterson, Haney, Rose, Wheeler, and Mundy
- 12:00 Noon Closing Remarks (for the technical workshop)
Molly McCammon, Executive Director
- 12:15 Lunch (on your own)
- 2:00 Welcome
State Trustee?
- 2:10 Overview of Restoration Program and Update on Injury & Recovery
Molly McCammon, Executive Director
Stan Senner, Science Coordinator
- 2:30 An Ecosystem Approach to Restoration
Dr. Robert Spies, Chief Scientist
- 2:40 Scientists at Work
Killer whales: Counting - Craig Matkin, 96012
Harbor seals: Biosampling - Kate Wynne, 96244
Clams: Hatchery Production - Carmen Young, 96131
Sockeye: Genetic Sampling - Lisa Seeb, 96255
Marbled Murrelets: Climbing Trees - Kathy Kuletz, 96031
Harlequin Ducks: Kayak Roundup - Dan Esler, 96025
- 3:30 Alaska SeaLife Center
John Hendricks, Executive Director
- 3:40 For More Information--How to Get Involved
Molly McCammon, Executive Director
- 3:45 Panel: Questions and Answers
Molly McCammon, Robert Spies, Stan Senner, Martha Vlasoff, and other presenters
- 4:30 Adjourn

Exxon Valdez Oil Spill Trustee Council

Restoration Office

645 G Street, Suite 401, Anchorage, Alaska 99501-3451

Phone: (907) 278-8012 Fax: (907) 276-7178



December 10, 1996

Dr. Dana C. Schmidt
Commercial Fisheries Management and
Development Division
Alaska Department of Fish and Game
34828 Kalifornsky Beach Road, Suite B
Soldotna, Alaska 99669

Dear Dana:

Thank you for your e-mail message dated November 29 in regard to my recommendation to not fund proposed Project 97239, Salmon Carcasses and Juvenile Chinook Salmon Production in the Kenai River Ecosystem, in FY 1997. You were particularly concerned about the management aspects of this project and the fact that my recommendation to the Trustee Council indicated that its potential management value needed to be clarified.

The primary reason for my recommendation not to fund this project in FY 1997 was that it was a lower priority given all of the other competing demands for restoration funds. We had a target of \$16 million for the FY 1997 work plan, and several meritorious projects were not funded as a result. Since the oil spill, the Trustee Council has made a major, multimillion dollar commitment to work on sockeye salmon in the Kenai River system. This commitment continues in the form of the habitat restoration project (97180), which has been a top priority for the Department and the Governor. In the case of your proposal for new work on salmon carcasses, the project received a favorable scientific review, but it was my sense that this was not work that had to be started in FY 1997, nor was there urgency in terms of responding to an oil-spill injury.

In regard to the potential management application of this work, there were two issues. First, the reviewers had suggested that the project was perhaps too narrowly focused on one species (i.e., Chinook salmon). Although broadening the study would have increased costs, it might also have increased its management value. Second, although you have mentioned the fisheries biologist at the Kenai National Wildlife Refuge, we inquired several times about the degree of interest in and support from the U.S. Fish and Wildlife Service and never felt that we got unequivocal answers to these queries (we received nothing at all in writing).

Trustee Agencies

State of Alaska: Departments of Fish & Game, Law, and Environmental Conservation
United States: National Oceanic and Atmospheric Administration, Departments of Agriculture and Interior

Page 2
Dana Schmidt
December 10, 1996

Although there were unresolved questions about the management application of this project, my recommendation did not hinge on these questions. Fundamentally, this recommendation was a matter of priorities and should not be interpreted as reflecting negatively on the quality or usefulness of your work.

On December 6, the Trustee Council concurred with my recommendation to not fund proposed project 97239 in FY 1997. Your many contributions to the restoration program are recognized and appreciated, and we look forward to working with you again. Thank you.

Sincerely,



Molly McCammon
Executive Director

cc: Claudia Slater
Janet Kowalski

Exxon Valdez Oil Spill Trustee Council

Restoration Office

645 G Street, Suite 401, Anchorage, Alaska 99501-3451

Phone: (907) 278-8012 Fax: (907) 276-7178



MEMORANDUM

TO: Libby Schatz, Assistant Director of Sales
Hotel Captain Cook

FROM: Eric F. Myers

DATE: December 13, 1996 *This went out 12/13*

SUBJ: Space Substitution for January 23-25, 1997 Restoration Workshop

As we discussed, I would like to make a minor revision to the configuration of the "breakout room" space scheduled for the January 23-25, 1997 conference.

Instead of four rooms for up to 30 (theater style) for each day of the meeting from 8 am - 5 pm, we would like to have only three rooms (of the same size) over this period with two rooms extending into the evening to 10 pm on Thursday and Friday nights. It is my understanding that you can accommodate this substitution.

Again, your assistance with the preparations for our annual Restoration Workshop is appreciated.

Trustee Agencies

State of Alaska: Departments of Fish & Game, Law, and Environmental Conservation

United States: National Oceanic and Atmospheric Administration, Departments of Agriculture and Interior

Exxon Valdez Oil Spill Trustee Council

645 G Street, Suite 401, Anchorage, AK 99501-3451 907/278-8012 fax: 907/276-7178



December 9, 1996

Dear Reviewer:

Enclosed is the final report for Project 96154, *Comprehensive Community Plan for the Restoration of Archaeological Resources in Prince William Sound and Lower Cook Inlet*. The project was carried out by the Chugach Development Corporation under contract with the U.S. Forest Service.

Several drafts of this plan have been reviewed since November 1995. The report has been revised several times to incorporate the ideas, concerns and comments of over forty participant organizations. We would like to express our thanks to all of you who contributed to the development of this plan.

The Trustee Council has not yet decided whether to issue an invitation for proposals to store and display artifacts. Before making their decision, the Council would like a thorough public review of the report. I refer you to the following key sections:

- ▶ Part I, pages 70-100, describes and evaluates eight alternatives.
- ▶ Part II, pages 13-20, estimates the capital and operating cost of each alternative.

All comments are welcome, but those that help the Council select a preferred alternative and set guidelines for proposals would be most useful at this time. You need not confine your comments to the eight alternatives presented in the report. The Council also welcomes suggestions of other alternatives.

To be most useful, your comments should be received by the Trustee Council by **February 14, 1997**. To comment, contact the Trustee Council by:

Mail: Exxon Valdez Oil Spill Trustee Council
645 G Street; Suite 401
Anchorage, AK 99501
Phone: (907) 278-8012
Toll free in Alaska: 1-800-478-7745; outside Alaska: 1-800-283-7745
Fax: (907) 276-7178
E-mail: veronicac@oilspill.state.ak.us (Attn: Veronica Christman)

Sincerely,

A handwritten signature in blue ink that reads "Molly McCammon".

Molly McCammon
Executive Director

A handwritten signature in blue ink that reads "Lora L. Johnson".

Lora L. Johnson
Project Contractor
Chugach Development Corporation

Exxon Valdez Oil Spill Trustee Council

645 G Street, Suite 401, Anchorage, AK 99501-3451 907/278-8012 fax: 907/276-7178



December 9, 1996

Dear Public Advisory Group Member or Community Involvement Facilitator :

Enclosed is the final report for Project 96154, *Comprehensive Community Plan for the Restoration of Archaeological Resources in Prince William Sound and Lower Cook Inlet*. The project was carried out by the Chugach Development Corporation under contract with the U.S. Forest Service.

The Trustee Council has not yet decided whether to issue an invitation for proposals to store and display artifacts. Before making their decision, the Council would like a thorough public review of the report. I refer you to the following key sections:

- ▶ Part I, pages 70-100, describes and evaluates eight alternatives.
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Phone: (907) 278-8012
Toll free in Alaska: 1-800-478-7745; outside Alaska: 1-800-283-7745
Fax: (907) 276-7178
E-mail: veronicac@oilspill.state.ak.us (Attn: Veronica Christman)

In about a week, Cherri Womac of this office will contact each member of the Public Advisory Group to arrange a work session on this report, as you requested at your December 3rd meeting. In addition, a joint work session of the Public Advisory Group and Community Involvement Facilitators will be held on January 22 in conjunction with the annual Restoration Workshop at the Captain Cook Hotel in Anchorage. I hope you will be able to participate in both work sessions.

Sincerely,

Molly McCammon
Executive Director

Exxon Valdez Oil Spill Trustee Council

645 G Street, Suite 401, Anchorage, AK 99501-3451 907/278-8012 fax: 907/276-7178



MEMORANDUM

TO: Restoration Work Force

FROM: Molly McCammon
Executive Director

DATE: December 9, 1996

SUBJ: Project 96154, Archaeological Restoration Planning Project

The purpose of this memorandum is to request your review of the enclosed final report for Project 96154, *Comprehensive Community Plan for the Restoration of Archaeological Resources in Prince William Sound and Lower Cook Inlet*. The project was carried out by the Chugach Development Corporation under contract with the U.S. Forest Service.

The Trustee Council directed me to conduct a thorough public review of this document. I am sending this document to village councils, municipalities, museums, agencies and other interested groups in the spill area. A joint work session of the Public Advisory Group and community facilitators will be held on January 22 in conjunction with the annual Restoration Workshop at the Captain Cook Hotel in Anchorage. My staff will also conduct public workshops in the affected area. The public comment period ends February 14, 1997.

I would appreciate receiving your comments by **January 17, 1997**, if possible. Please direct your comments to Veronica Christman, who will be coordinating the review of the report on behalf of the Restoration Office. For your information, a copy of the enclosed report has also been sent to the Trustee Council's legal advisors for their review.

In late February, I will recommend to the Trustee Council further action, if warranted. One possibility is to issue a separate invitation for community initiatives relative to archaeological restoration. A reasonable time for such an invitation would be in early March to avoid conflicts with fishing and other summer activities.

Thank you.

Exxon Valdez Oil Spill Trustee Council

645 G Street, Suite 401, Anchorage, AK 99501-3451 907/278-8012 fax: 907/276-7178



MEMORANDUM

TO: Maria Lisowski
U.S. Department of Agriculture

Barry Roth
U.S. Department of the Interior

Alex Swiderski
Alaska Department of Law

Gina Belt
U.S. Department of Justice

FROM: Molly McCammon
Executive Director

DATE: December 9, 1996

SUBJ: Project 96154, Archaeological Restoration Planning Project
Legal Review of Final Report

The purpose of this memorandum is to request your review of the enclosed final report for Project 96154, *Comprehensive Community Plan for the Restoration of Archaeological Resources in Prince William Sound and Lower Cook Inlet*. The project was carried out by the Chugach Development Corporation under contract with the U.S. Forest Service.

The Trustee Council directed me to conduct a thorough public review of this document. I am sending this document to village councils, municipalities, museums, agencies and other interested groups in the spill area. My staff will conduct a joint work session of the Public Advisory Group and the community facilitators on January 22 and public workshops in the affected area in early February. Although the public comment period will end on February 14, it would be most helpful to the process to have your comments by **January 17, 1997**.

In late February, I will recommend to the Trustee Council further action, if warranted. One possibility is to issue a separate invitation for community initiatives relative to archaeological restoration. A reasonable time for such an invitation would be in early March to avoid conflicts with fishing and other summer activities.

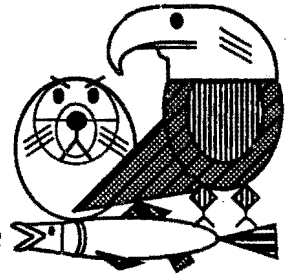
Thank you.

Exxon Valdez Oil Spill Trustee Council

Restoration Office

645 G Street, Suite 401, Anchorage, Alaska 99501-3451

Phone: (907) 278-8012 Fax: (907) 276-7178



MEMORANDUM

To: Trustee Council

From: Molly McCannion, Executive Director

Subject: Request to collect glaucous-winged gulls

Date: December 9, 1996

At the Trustee Council meeting last Friday in Juneau, you approved an additional \$30.5K for the avian copredator component of the Nearshore Vertebrate Predator project, 97025. In his description of the project, Stan Senner, the Trustee Council science coordinator, noted that this work would involve the collection of 60 glaucous-winged gulls on Montague Island to document the number and size classes of blue mussels taken by this species in winter and spring. This information is needed to gain more insight into the recovery status of the sea otter, which also preys heavily on blue mussels.

As provided by the Trustee Council's policy on collecting specimens, Dr. Mary Anne Bishop, U.S. Forest Service, has prepared the attached memorandum describing the rationale for and the impacts of the proposed collection. The Trustee Council's chief scientist, Dr. Robert Spies, has reviewed this request and recommends that it be authorized. A copy of his memorandum is also attached. In addition, the members of the Public Advisory Group were briefed on this collecting request on December 4 and raised no objections.

Given the above, I intend to proceed to authorize the collection of the gull specimens, provided that NEPA has been satisfied and the necessary permits have been obtained. If you have any questions or concerns, please let either me or Stan Senner know by close of business on Wednesday if possible. Thank you.

encl: (2)

cc w/encl: Dr. Mary Anne Bishop, USFS
Ms. Lisa Thomas, USGS-BRD
Dr. Dave Gibbons, USFS
Dr. Robert Spies, Chief Scientist

Trustee Agencies

State of Alaska: Departments of Fish & Game, Law, and Environmental Conservation
United States: National Oceanic and Atmospheric Administration, Departments of Agriculture and Interior

**FY 97 PROPOSED BIRD COLLECTIONS AS PART OF PROJECT 97025 -
NEARSHORE VERTEBRATE PREDATORS**

Prepared for : Chief Scientist,
Exxon Valdez Oil Spill Trustee Council

cc: Stan Senner, EVOS
Dave Gibbons, US Forest Service
Lisa Thomas, National Biological Service

Prepared by: Copper River Delta Institute,
U.S. Forest Service

Summary and Conclusions

- ◆ As part of the Nearshore Vertebrate Predators Project (#97025)- the co-predator component, avian predation on blue mussels, 60 individual Glaucous-winged Gulls will be collected to obtain data on avian diet during winter and spring at Montague Island. This species is present in large numbers in Prince William Sound.
- ◆ The number of proposed collections is small and will not impact the population of the Glaucous-winged gull.
- ◆ Non-lethal methods of obtaining data on gull diet have been attempted and were found to be impractical and time-consuming along with yielding low quality data. Because of the free ranging nature of the species in question, their behaviors, and the habitat we see no non-lethal alternatives.
- ◆ Without collecting birds no accurate, quantified data on gull diet in mussel bed areas will be available. Without data on the amount of blue mussels present in the diet of the glaucous-winged gulls foraging in mussel beds, the impacts of their predation on the blue mussel population structure in Prince William Sound cannot be assessed.

Background

Collections of birds are proposed as part of an effort to estimate effects of avian predators on blue mussel size class structure and abundance. Rationale and specific methods are described in NVP Detailed Project Descriptions. In brief, estimates of avian predation on mussels are necessary because mussel population structure will be used as one measure of sea otter recovery status, i.e., whether sea otters are at carrying capacity relative to available food. If avian copredators are structuring mussel populations on our study site, it could confound interpretation of sea otter recovery unless we account for it.

OPTIONAL FORM 99 (7-90)

FAX TRANSMITTAL# of pages **3**

To	STAN SENNER	From	MARY BISHOP
Dept./Agency	EVOS	Phone #	424-7212
Fax #		Fax #	424-7214

Understanding avian copredator effects on mussel populations requires estimation of total numbers and size classes of mussels consumed. This will be estimated from models that incorporate the numbers of birds, the period that they are on the study sites, their energetic and nutritional needs during that period, and the size class and abundance of mussels in their diets. The last parameter requires collection of birds to accurately assess the occurrence and size class of mussels in bird diets on the specific study sites.

How many individuals are proposed to be collected and the approximate times and locations?
How do these numbers compare with the total population in the general collecting area?

We have proposed collection of a total of 60 glaucous-winged gulls from the Montague Island study site during 3 periods: December 1996 and February 1997 (combined total 30 gulls), and April-May 1997 (30 gulls). Glaucous-winged gulls are abundant at Montague Island. Previous studies in other areas have demonstrated that at various times of years, blue mussels can be an important component of their diet.

Winter glaucous-winged gull collections represent 0.2% of the March 1996 marine bird survey estimate of 13,936 gulls in Prince William Sound (S. Kendall, USFWS, pers. comm., EVOS Project 96045). Spring glaucous-winged gull collections represent 0.04% of the >64,700 birds estimated at Montague Island during April 1994 (EVOS Project 96320-Q).

How is the general health of the population? Is the population increasing, decreasing, or holding steady in the proposed sampling area? Is reproduction and young survival normal?

Populations of glaucous-winged gulls are large in Prince William sound during the periods of the proposed collections. Based on Bird Study No. 2 (Klosiewski and Laing 1994), there is evidence of population declines for Glaucous-winged Gulls between 1972-73 and 1989-91. There is, however, no indication that this population is in distress, and recent boat surveys indicate that gulls are increasing in Prince William Sound since 1990 (Aglar et al. 1994, Restoration Project 93045). While only 2 small colonies exist on southeast Montague Island, larger colonies are numerous throughout Prince William Sound and the adjoining Copper River Delta. The largest breeding colony of Glaucous-winged Gulls in the north central Gulf of Alaska is Egg Island, on the eastern end of Prince William Sound with 20,000 breeding adults. Comments regarding productivity are therefore unwarranted.

Is the proposed take likely to affect any population trends?

The glaucous-winged gull is a common and widely distributed species, breeding coastally from Washington State to the Aleutians. Given the extremely small portion of the Prince William Sound population affected by these collections (0.2% and 0.04%) and the fact that collection would be performed only in a single year, no change in population trends would be expected.

Is the proposed method of take humane? Are there any effective, alternative means to obtain the data?

Birds will be collected by shotgun, the standard protocol used throughout the scientific and management community, and death will be almost instantaneous. There are various alternatives to sacrificing birds to obtain gut contents, but none of them are appropriate or adequate in this context. Non-lethal methods of collecting data on food habits of seabirds usually depends on birds being present at nests. Stomach contents are obtained by forced regurgitation (stomach pump or emetic) or by collection of prey items brought to chicks. However, no Glaucous-winged gulls breed at Montague Island, and breeding in Prince William Sound occurs outside of the study periods.

What will be lost if there is no take allowed?

Mussel size class structure and occurrence in diets of avian copredators cannot be distinguished without collection of the glaucous-winged gulls. This is an important parameter of modeling efforts to determine effects of copredators on mussel populations. Data from other diet studies are not appropriate, as we need data that are specific to the Montague Island site where we are measuring mussel abundance and size class. The importance of the copredator issue was acknowledged by the Trustees in December 1995 vote to include former 96104 in NVP. In addition, an outcome of the February 1996 review was the following statement by peer reviewer Charles H. Peterson, "I have concern over whether the size class of...prey can be adequately ascertained from focal observation and feeding observations...I would urge some use of collection of predators to improve this understanding of diets."

What can we realistically hope to learn that will justify this collection?

Using these methods, we will know the importance of mussels in the diets of avian copredators, the size classes of consumed mussels, and subsequently, the effects of avian copredators on mussel population structure that must be considered to properly interpret sea otter recovery status.

Have federal and/or state permits been secured? If not, why not?

Permits for December 1996 glaucous-winged gull collection of 15 birds are pending. Collection permits for calendar year 1997 will be applied for at the beginning of the calendar year.

A P P L I E D
marine
S C I E N C E S

December 2, 1996

To: Molly McCammon, Executive Director
From: Robert Spies, Chief Scientist *RBS*
RE: Proposed collection of glaucous-winged gulls at Montague Island
as part of 97025, the Nearshore Vertebrate Predator Project

The Nearshore Vertebrate Predator (NVP) Project is considering factors limiting recovery of sea otters, river otters, harlequin ducks, and pigeon guillemots in Prince William Sound. With respect to sea otters, one aspect of this work is to look at whether other predators are limiting the abundance and size of blue mussels available as prey to sea otters. It now appears that mussels are abundant at both Knight and Montague islands; there is no evidence that a lack of mussels is slowing recovery of sea otters. However, it does appear that the relative distribution of mussels in different size classes at these islands can be used as a measure of sea otter recovery status (i.e., where sea otters are abundant, there should be fewer large mussels). Preliminary data indicate that some species of birds are eating surprisingly large numbers of mussels, possibly in size classes that also are important to sea otters. Thus, it will be very useful to learn more about the number and especially the sizes of mussels eaten by birds to better interpret the recovery status of sea otters.

Preliminary data on avian predation on blue mussels suggests that birds may take up to about 20% of the available mussels on Montague Island and 6.7% on Knight Island. Two species, Barrow's goldeneye and glaucous-winged gull, account for much of this predation. Further work on predation by Barrow's goldeneye was funded in August as part of the NVP project, and the collection of goldeneye specimens in November-December and again in February has been approved by the Executive Director. On December 6, the Trustee Council will consider a recommendation by the Executive Director to fund an additional component of NVP, which would support an additional look at predation by glaucous-winged gulls.

The attached request from Dr. Mary Anne Bishop, U.S. Forest Service, is for a one-time collection of a total of 60 glaucous-winged gulls at Montague Island this winter (December and February) and in spring (April-May). In my judgment, given the season (e.g., typically poor weather conditions, no birds at nests) there are no appropriate non-lethal means to obtain information on the size classes of mussels eaten by glaucous-winged gulls, and the proposed lethal sampling will have a negligible effect on the Prince William Sound gull population. Although there is some evidence that contemporary gull populations are not as high as they were in the early 1970s, the glaucous-winged gull was not considered to have experienced significant injury due to the *Exxon Valdez* oil spill, nor is there any concern about the status of this abundant, widespread, opportunistic gull.

Provided that the Trustee Council approves funding for this addition to the NVP Project, it is my recommendation that the Executive Director approve the proposed collection of 60 glaucous-winged gulls in the 1996-97 winter and 1997 spring. Please let me know if you have any comments, questions, or concerns about this recommendation.

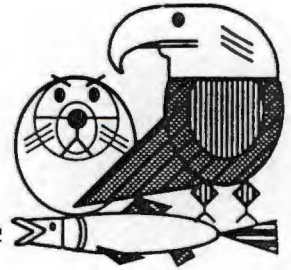
cc: S. Senner

Exxon Valdez Oil Spill Trustee Council

Restoration Office

645 G Street, Suite 401, Anchorage, Alaska 99501-3451

Phone: (907) 278-8012 Fax: (907) 276-7178



FAX COVER SHEET

To: See below Number: _____

From: Nelly McCommon Date: Dec 9, 1994

Comments: _____ Total Pages: 2

Mary Anne Bishop
Lisa Thomas
Klene Gibbons
Bob Spis

FAXED

HARD COPY TO FOLLOW _____

Document Sent By: Keri

3/27/96

Trustee Agencies

State of Alaska: Departments of Fish & Game, Law, and Environmental Conservation

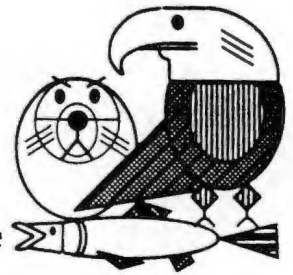
United States: National Oceanic and Atmospheric Administration, Departments of Agriculture and Interior

Exxon Valdez Oil Spill Trustee Council

Restoration Office

645 G Street, Suite 401, Anchorage, Alaska 99501-3451

Phone: (907) 278-8012 Fax: (907) 276-7178



FAX COVER SHEET

To: Trustee Council Members

From: Molly McCammon Date: Dec 9, 1996

Comments:

Total Pages: 7

Please distribute ASAP.

Thanks

FAXED

TRUSTEE COUNCIL MEMBERS AND ALTERNATES:

Botelho, Bruce

Brown, Michele

Frampton, Jr., George T.

Janik, Phil

Pennoyer, Steve

Rue, Frank

Tillery, Craig

Bosworth, Rob

Williams, Deborah

Wolfe, Jim

Collinsworth, Don

HARD COPY TO FOLLOW

FAX SENT BY: Keri Dill

3/27/96

Trustee Agencies

State of Alaska: Departments of Fish & Game, Law, and Environmental Conservation

United States: National Oceanic and Atmospheric Administration, Departments of Agriculture and Interior

*** MULTI TRANSACTION REPORT ***

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INCOMPLETE TX/RX

TRANSACTION OK

[22] 7863636

L. THOMAS

[35] 15103737834

B. SPIES

19074247214

ERROR

*** ACTIVITY REPORT ***

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CONNECTION ID	D.GIBBONS
START TIME	12/09 15:56
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TRANSACTION OK

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JUNEAU OFFICE

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P. JANIK

[26] 19074652075

B. BOTELHO

[27] 12022084684

G. FRAMPTON

[28] 19075867249

S. PENNOYER

[29] 19074652332

FRANK RUE

[31] 19074655070

MICHELE BROWN

[36] 2787022

ALEX-CRAIG

[37] 2714102

D. WILLIAMS

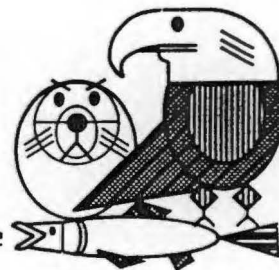
ERROR

Exxon Valdez Oil Spill Trustee Council

Restoration Office

645 G Street, Suite 401, Anchorage, Alaska 99501-3451

Phone: (907) 278-8012 Fax: (907) 276-7178



FAX COVER SHEET

To: Ginny Number: _____

From: Keri Date: Dec 10, 1996

Comments: _____ Total Pages: 7

Hopefully this will
transmitt better. If
not, call me.

Keri

FAXED

HARD COPY TO FOLLOW _____

Document Sent By: Keri Dike

3/27/96

Trustee Agencies

State of Alaska: Departments of Fish & Game, Law, and Environmental Conservation

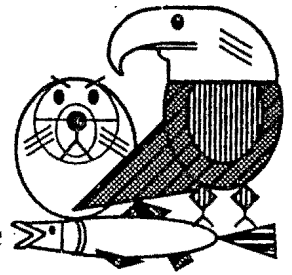
United States: National Oceanic and Atmospheric Administration, Departments of Agriculture and Interior

Exxon Valdez Oil Spill Trustee Council

Restoration Office

645 G Street, Suite 401, Anchorage, Alaska 99501-3451

Phone: (907) 278-8012 Fax: (907) 276-7178



MEMORANDUM

TO: Roxie Aragones
FROM: Eric F. Myers *[Signature]*
DATE: 12/9/96
SUBJ: Hotel Captain Cook Contract (Delivery Order 344150)

Please find enclosed a signed copy of the contract with the Hotel Captain Cook which incorporates the Addendum B previously sent to you. In short, the Addendum B incorporates the Delivery Order (D.O. 344150) into the contract.

For your reference, I have placed tabs at the points where there are signatures in the contract. Note that the additional page to the D.O. has my signature (is that sufficient?).

If you have any questions, please let me know.

(P.S. The Captain Cook already has a copy.)

Trustee Agencies

State of Alaska: Departments of Fish & Game, Law, and Environmental Conservation

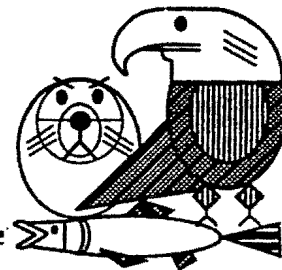
United States: National Oceanic and Atmospheric Administration, Departments of Agriculture and Interior

Exxon Valdez Oil Spill Trustee Council

Restoration Office

645 G Street, Suite 401, Anchorage, Alaska 99501-3451

Phone: (907) 278-8012 Fax: (907) 276-7178



December 9, 1996

Claudia Slater
EVOS Restoration Agency Liaison
Alaska Department of Fish and Game
333 Raspberry Road
Anchorage, Alaska 99518

Dear Claudia:

At its meeting last Friday (December 6), the Trustee Council continued to defer a decision on proposed Project 97254, Delight and Desire Lakes Restoration. At the meeting questions were raised about the benefit of the project to subsistence and other users and whether there were sources of funds other than the Trustee Council to pay for the implementation and monitoring phase of the proposed project. I promised the Trustee Council that we would explore these issues and report back to the Council. Accordingly, I request your assistance in addressing the following questions:

(1) Although I recognize that the feasibility work has not been undertaken, it would be useful for all concerned if the proposers could make a preliminary estimate of implementation and monitoring costs over the life of this project. I trust that the Department has done enough of this type of work elsewhere that you can at least generate a rough answer.

(2) If the Trustee Council was to provide \$123.1K in FY 1997 for the initial prefertilization feasibility study (Phase 1 in the Detailed Project Description), and if that feasibility study suggested that a fertilization project would be successful, are there sources of funds other than the Trustee Council that would be available to pay for Phase 2, implementation and monitoring? Several Trustees indicated that they would want a more formal commitment prior to going ahead with a feasibility study. Are the Alaska Department of Fish and Game, Lower Cook Inlet Fisheries Development Association, and Lower Cook Inlet Seiners Association prepared to make any commitments in this regard?

(3) Who would be the beneficiaries of the project, if it were fully implemented? During the time for public comments at the Trustee Council meeting, both Pat Norman and Walter Meganack mentioned subsistence users in Port Graham would like the opportunity to obtain more fish from Delight and Desire lakes. The DPD makes no mention of subsistence users, and I was only aware of likely commercial and sport users. To the extent possible, please provide a profile of who the potential users are, how many there are, and where they would come from.

Trustee Agencies

State of Alaska: Departments of Fish & Game, Law, and Environmental Conservation
United States: National Oceanic and Atmospheric Administration, Departments of Agriculture and Interior

Page 2
Claudia Slater
December 9, 1996

(4) Finally, as background, it would be helpful if the Department would revisit the catch-and-escapement history of the Delight and Desire fishery. In the DPD, only catch data are presented, and there is no statistical analysis (average catches, but no measures of variability or statistical significance) of these data. In addition, what does the Department believe accounts for the high variability and apparent decline in the Delight and Desire sockeye catches? More information along these lines could be of fundamental importance in considering the appropriateness and efficacy of a fertilization effort.

Thank you for your assistance with this request. I expect that the next Trustee Council meeting will be in late January or early-to-mid February, so it would be helpful to have your reply by mid-January.

Sincerely,



Molly McCann
Executive Director

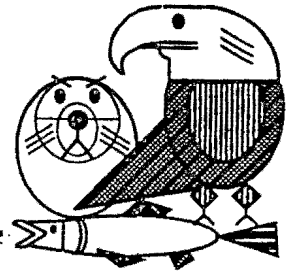
cc: Janet Kowalski, ADFG Juneau
Nick Dudiak & Mark Dickson, ADFG Homer
Dr. James Fall, ADFG Anchorage
Lower Cook Inlet Fisheries Development Association
Lower Cook Inlet Seiners Association
Mr. Pat Norman, Port Graham Corporation
Dr. Robert Spies, Chief Scientist
Judy Gottlieb, USNPS Anchorage

Exxon Valdez Oil Spill Trustee Council

Restoration Office

645 G Street, Suite 401, Anchorage, Alaska 99501-3451

Phone: (907) 278-8012 Fax: (907) 276-7178



MEMORANDUM

TO: Participants in Public Session of 1997 Restoration Workshop

FROM: Molly McCammon
Executive Director

RE: Agenda for Public Session of 1997 Workshop

DATE: December 9, 1996

Thank you for your willingness to participate in the public session of the upcoming restoration workshop. The public session is being organized in response to a request from some of last year's workshop attendees. We hope that it proves to be an effective means of informing the public of the restoration efforts underway on behalf of the Trustee Council. The session will be advertised in newspapers and local organization newsletters, as well as in the Trustee Council's *Restoration Update*. We will also be notifying local high school and university science teachers and their classes.

A draft agenda for the public session is attached. As you'll see, you are each scheduled for a 7 to 10 minute presentation on your restoration work. In an effort to ensure interesting, lively presentations that will appeal to an audience of non-scientists, we have chosen the theme of "Scientists at Work" for this portion of the program. In your presentation, please:

- State briefly what happened to your species and what you're doing about it
- Describe interesting aspects of how you work (e.g., climbing trees)
- Explain what your work helps us learn or accomplish
- "Dress the part" (e.g., a lab coat, a helmet)
- Use props and gear (e.g., a climbing harness, baby clams)
- Show 4 or 5 action slides of you or your assistants at work

Questions from the audience will be taken following all of the presentations. I would appreciate your staying for the question and answer period.

If you would like input or assistance in putting together your presentation, please contact Sandra Schubert here at the Restoration Office. Also contact Sandra if you have questions about the public session or need special equipment for your presentation.

Thanks again. See you at the workshop!

Trustee Agencies

State of Alaska: Departments of Fish & Game, Law, and Environmental Conservation
United States: National Oceanic and Atmospheric Administration, Departments of Agriculture and Interior

DRAFT AGENDA
PUBLIC SESSION, ANNUAL RESTORATION WORKSHOP
Saturday, January 25, 1996
Captain Cook Hotel

DRAFT

- 2:00 Welcome
_____, State and/or Federal trustee
- 2:10 Introductory Slide Show
Overview of Restoration Effort: Molly McCammon, Executive Director
Status of Injured Resources and Services: Stan Senner, Science Coordinator
- 2:30 Ecosystem Approach to Restoration
Dr. Bob Spies, Chief Scientist
- 2:40 Scientists at Work: How We Do It, Why We Do It, and What We Learn
NOTE: Each presentation will be 7 - 10 minutes.
- | | |
|--|--|
| Killer whales: Counting (96012) | Craig Matkin |
| Harbor seals: Biosampling (96244) | Kate Wynne and youth-
area-watch biosampler |
| Clams: Hatchery production (96131) | Carmen Young |
| Sockeye: Genetic sampling for management (96255) | Lisa Seeb |
| Marbled murrelets: Tree climbing (96031) | Kathy Kuletz |
| Harlequin ducks: Kayak herding, radios (96025) | Dan Esler |
- 3:30 Alaska SeaLife Center
John Hendricks, Director
- 3:40 For More Information, How to Get Involved
Molly McCammon, Executive Director
- 3:45 Questions From the Audience
Questions /comments will be directed to a panel: Molly McCammon/Executive
Director, Bob Spies/Chief Scientist, Stan Senner/Science Coordinator.
Presenting scientists will also be available.

DRAFT AGENDA
PUBLIC SESSION, ANNUAL RESTORATION WORKSHOP
Saturday, January 25, 1996
Captain Cook Hotel

DRAFT

2:00 Welcome [?]
Craig Tillery, State and/or Federal trustee

2:10 Introductory Slide Show
Overview of Restoration Effort: Molly McCammon, Executive Director
Status of Injured Resources and Services: Stan Senner, Science Coordinator

2:30 Ecosystem Approach to Restoration
Dr. Bob Spies, Chief Scientist

2:40 Scientists at Work: How We Do It, Why We Do It, and What We Learn
NOTE: Each presentation will be 7 - 10 minutes.

Killer whales: Counting (96012)
Harbor seals: Biosampling (96244)

Clams: Hatchery production (96131)
Sockeye: Genetic sampling for management (96255)
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Harlequin ducks: Kayak herding, radios (96025)

Craig Matkin
Kate Wynne and youth-
area-watch biosampler
Carmen Young
Lisa Seeb
Kathy Kuletz
Dan Esler

3:30 Alaska SeaLife Center
John Hendricks, Director

3:40 For More Information ^{How} or to Get Involved [?]
Molly McCammon, Executive Director

find back

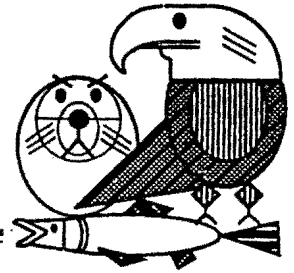
3:45 Questions From the Audience
Questions /comments will be directed to a panel: Molly McCammon/Executive Director, Bob Spies/Chief Scientist, Stan Senner/Science Coordinator.
Presenting scientists will also be available.

Exxon Valdez Oil Spill Trustee Council

Restoration Office

645 G Street, Suite 401, Anchorage, Alaska 99501-3451

Phone: (907) 278-8012 Fax: (907) 276-7178



FAX MEMORANDUM

TO: Restoration Work Force

FROM: Molly McGammon
Executive Director

RE: Trustee Council's December 6th Action on Deferred Projects

DATE: December 9, 1996

At its December 6 meeting, the Trustee Council approved funding for ten restoration projects. As you know, a letter of authorization from the Executive Director is needed for each project before spending can occur. In order to receive a letter of authorization, NEPA compliance must be documented. The attached spreadsheet lists the expected NEPA documentation for each project.

Letters are being prepared under my signature to each PI who had a deferred project, notifying them of the Trustee Council's recent action. The letters should be mailed this week with a copy going to the appropriate agency liaison. I expect the PIs to work through the liaisons if they have questions about NEPA or any other aspect of the project approval process.

Attachment: Proposed NEPA compliance

Trustee Agencies

State of Alaska: Departments of Fish & Game, Law, and Environmental Conservation

United States: National Oceanic and Atmospheric Administration, Departments of Agriculture and Interior

PROPOSED NEPA COMPLIANCE FY 97 WORK PLAN (funded 12/6/96 only)

<u>Proj.No.</u>	<u>Project Title</u>	<u>New or Cont'd</u>	<u>NEPA Lead Agency</u>	<u>NEPA Document</u>	<u>NEPA Status</u>
ADEC					
97026-CLO	Report Writing: Integration of Microbial and Chemical Sediment Data	Cont'd	NOAA	CE	CE on file (95026); NOAA needs to verify that it covers FY97 work as well (report writing only)
ADFG					
97166	Herring Natal Habitats	Cont'd	NOAA	CE	CE on file for interim work; NOAA needs to verify that it covers work approved in December as well
97247	Kametolook River Coho Salmon Subsistence Project	New	DOI	EA	
97251-CLO	Akalura Lake Sockeye Salmon Restoration	Cont'd	NOAA	CE	
ADNR					
97230	Valdez Duck Flats Restoration Project	New	USFS	CE	
DOI					
97025	Mechanisms of Impact and Potential Recovery of Nearshore Vertebrate Predators (NVP)	Cont'd	USFS	CE&EA	CE, and EA/FONSI for goldeneye, on file (96025); need EA for FY97 gull work
97159-CLO	Surveys to Monitor Marine Bird Abundance in Prince William Sound During Winter and Summer: Report and Publication Writing	Cont'd	DOI	N/A	Memo on file (N/A because report writing only)
97169	A Genetic Study to Aid in Restoration of Murres, Guillemots, and Murrelets to the Gulf of Alaska	New	DOI	CE	
NOAA					
97012-BAA	Comprehensive Killer Whale Investigation in Prince William Sound	Cont'd	NOAA	CE	CE on file for interim work; NOAA needs to verify that it covers work approved in December as well

PROPOSED NEPA COMPLIANCE -- FY 97 WORK PLAN (funded 12/6/96 only)

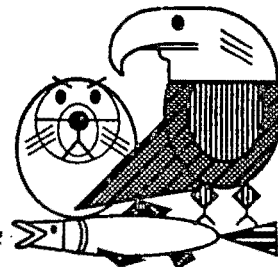
<u>Proj.No.</u>	<u>Project Title</u>	<u>New or Cont'd</u>	<u>NEPA Lead Agency</u>	<u>NEPA Document</u>	<u>NEPA Status</u>
97256B	Sockeye Salmon Stocking at Solf Lake	Cont'd	USFS	EA	EA was done in 1977; USFS needs to verify that it covers FY97 work as well

Exxon Valdez Oil Spill Trustee Council

Restoration Office

645 G Street, Suite 401, Anchorage, Alaska 99501-3451

Phone: (907) 278-8012 Fax: (907) 276-7178



FAX COVER SHEET

To: Restoration Work Force

From:

*Sandra S.
molly m.*

Date:

Dec 9th

Comments:

Total Pages:

4

*Please distribute.
Thx*

RESTORATION WORK FORCE MEMBERS INCLUDE:

Belt, Gina

Berg, Catherine

Fries, Carol

Gibbons, Dave

Claudia Slater/Bill Hauser

Bartels, Leslie/Lisa Thomas

Miraglia, Rita

Morris, Byron

~~Piper, Ernie~~

Rice, Bud

Spies, Bob

Thompson, Ray

Wright, Bruce

Sullivan, Joe

HARD COPY TO FOLLOW

no

FAX SENT BY:

Keri

8/7/96

Trustee Agencies

State of Alaska: Departments of Fish & Game, Law, and Environmental Conservation

United States: National Oceanic and Atmospheric Administration, Departments of Agriculture and Interior

*** MULTI TRANSACTION REPORT ***

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R.THOMPSON
JUNEAU OFFICE
D.GIBBONS
MORRIS-WRIGHT
CAROL FRIES
RITA MIRAGLIA
SULLIVAN-SLATER
L.BARTELS
C.BERG
B.RICE
DIANNE MUNSON
B.SPIES
G.BELT

ERROR

12/09/96

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907 276 7178

EV Restoration

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*** ACTIVITY REPORT ***

TRANSMISSION OK

TX/RX NO. 0975

CONNECTION TEL 2713992

CONNECTION ID R. THOMPSON

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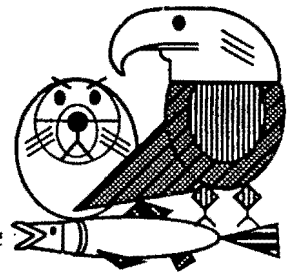
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Exxon Valdez Oil Spill Trustee Council

Restoration Office

645 G Street, Suite 401, Anchorage, Alaska 99501-3451

Phone: (907) 278-8012 Fax: (907) 276-7178



December 9, 1996

Bob Henrichs, President
Traditional Council
Native Village of Eyak
POB 1388
Cordova, Alaska 99574

Dear Bob:

Thank you very much for the invitation to the Annual Sobriety Day Celebration and Potlatch. Unfortunately, my husband will be out of town that weekend, and I need to be with my kids. I wish you much success with it.

I'm also anxious to hear about plans for next year's event in conjunction with the Subsistence Elders and Youth Conference. I'm supposed to be in Cordova either later this month or sometime in January to talk to the city council. Let's get together then if you have time.

Sincerely,

Molly McCammon
Executive Director

mim/raw

Trustee Agencies

State of Alaska: Departments of Fish & Game, Law, and Environmental Conservation
United States: National Oceanic and Atmospheric Administration, Departments of Agriculture and Interior

*R - keep in binder
file.*

NATIVE VILLAGE OF EYAK

P.O. BOX 1388-CORDOVA, ALASKA 99574

TEL 907-424-7738-FAX-907-424-7739

October 23, 1996

Molly McCammon
Executive Director
EVOS Trustee Council
645 G Street, #401
Anchorage, Alaska 99501-3451

RECEIVED
NOV 4 1996

**EXXON VALDEZ OIL SPILL
TRUSTEE COUNCIL**

Dear Molly

You are invited to attend the Native Village of Eyak's, Third Annual Sobriety Day Celebration & Potlatch, to be held on December 14, 1996, at Cordova, Alaska.

There will be Speakers, Workshops, Dance Groups, Musicians, good food, and much more.

Hope to see you there.

Sincerely yours

Bob Henrichs

Bob Henrichs

President, Traditional Council
Native Village of Eyak

THE NATIVE VILLAGE OF EYAK
INVITES YOU TO THEIR

**THIRD ANNUAL
SOCIETY DAY
CELEBRATION**

&

POTLATCH

TO BE HELD ON

DECEMBER 14, 1996

AT

CORDOVA, ALASKA

THERE WILL BE SPEAKERS, WORKSHOPS,
DANCE GROUPS, MUSICIANS, GOOD FOOD AND
MUCH MORE. THERE WILL BE TABLES
AVAILABLE FOR PEOPLE TO SELL CRAFTS.

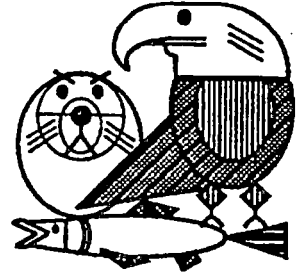
CALL 907-424-7738 FOR MORE INFORMATION.

Exxon Valdez Oil Spill Trustee Council

Restoration Office

645 "G" Street, Anchorage, AK 99501

Phone: (907) 278-8012 Fax: (907) 276-7178



MEMORANDUM

TO: Molly McCammon
FROM: *Traci Cramer*
Traci Cramer
Administrative Officer

DATE: December 9, 1996

RE: Cash Flow Explanation

This explanation has been developed for the cash flow statement and supporting schedules dated December 9, 1996. Changes incorporated include the following.

1. The October ending balance has been reconciled with the CRIS report dated October 31, 1996.
2. Funding identified for small parcel acquisitions has been updated to reflect disbursements anticipated to occur in November and December. In addition, all pending small parcel acquisitions have been included.
3. Funding approved by the Trustee Council at the December 6th meeting has been reflected. This include \$12.1 for Administration, Scientific Mgt. & Public Information and \$609.2, less interest earned for General Restoration - Monitoring and Research.
4. The Tatitlek payment schedule has been revised based on Trustee Council action at the December 6th meeting.
5. The \$5,000.0 due the State of Alaska in September 1997 has been reflected.
6. The lapse/interest adjustment has been revised to reflect the unobligated/unexpended balance reported by the agencies for the period ending September 30, 1996. The number includes \$13.0 in revenue generated through poster sales, \$2,899.3 in lapse associated with the 1996 Work Plan and \$1,872.6 in lapse associated with prior year Work Plans.

Trustee Agencies

State of Alaska: Departments of Fish & Game, Law, and Environmental Conservation
United States: National Oceanic & Atmospheric Administration, Departments of Agriculture and Interior

7. The EVOS Financial Plan has been reformatted to reflect the lapse/interest adjustment prior to year end. In this way, funding associated with the future fiscal year and the lapse/interest adjustment are reflected in the same year.

Land Acquisition Down Payments

Down payments reflected in FFY 1997 include the following.

Chenega Corporation	\$24,000.0	Jan.
Tatitlek Corporation	\$3,000.0	Mar.
Kenai (English Bay)	\$13,500.0	Apr.
Eyak Corporation	\$4,000.0	June
Afognak Joint Ventures	\$14,000.0	June

Land Acquisition Payments

The FFY 1997 land payments include the following.

Seal Bay *	\$3,075.6	Nov.
Akhiok-Kaguyak, Incorporated *	\$7,500.0	Sept.
Koniag, Incorporated *	\$4,500.0	Sept.
Kodiak Island Borough * (Shuyak)	\$4,000.0	Sept.
KAP 103 Silkalidak Strait-Kahutak *	\$66.0	Nov.
KAP 115 Johnson (Uyak Bay) *	\$110.5	Nov.
KAP 135 Capjohn *	\$73.5	Nov.
KEN 54 Salamathos *	\$2,540.0	Nov.
KAP 98 Silkalidak Strait-Pestrikoff *	\$128.0	Dec.
KAP 101 Silkalidak Strait-Haakanson *	\$52.0	Dec.
KAP 131 Kiliuda Bay-Matfay *	\$68.0	Dec.
KAP 132 Silkalidak Strait-Peterson *	\$256.0	Dec.
KEN 1015 Lowell Point *	\$531.0	Dec.
KEN 1049 Mansholt	\$55.0	Jan.
KEN 148 River Ranch	\$1,650.0	Jan.
KEN 1005 Ninilchik	\$50.0	Jan.
KEN 1009 Cooper	\$48.0	Jan.
KAP 114 Uyak Bay	\$154.0	Jan.
KAP 1055 Abston	\$281.3	Jan.
PWS 11 Horseshoe	\$475.0	Jan.
KEN 55 Overlook Park	\$244.0	Feb.
KAP 1034 Patson	\$375.0	Feb.
KEN 1002 - 1004 Kenai Native Assoc.	\$4,000.0	Mar.
Kodiak Island Borough Tax Parcels	\$1,000.0	Sept.

* Reflects signed agreements or pending court requests.

Eyak Corporation	\$7,500.0	Sept.
Tatitlek Corporation	\$11,005.4	Sept.
Afognak Joint Ventures	\$3,500.0	Sept.

The FFY 1998 land payments include the following.

Koniag, Incorporated *	\$4,500.0	Sept.
Kodiak Island Borough * (Shuyak)	\$4,000.0	Sept.
Eyak Corporation	\$7,500.0	Sept.
Tatitlek Corporation	\$11,005.4	Sept.
Afognak Joint Ventures	\$10,500.0	Sept.

The FFY 1999 land payments include the following.

Kodiak Island Borough * (Shuyak)	\$4,000.0	Sept.
Eyak Corporation	\$7,500.0	Sept.
Afognak Joint Ventures	\$10,500.0	Sept.

The FFY 2000 land payments include the following.

Kodiak Island Borough * (Shuyak)	\$4,000.0	Sept.
Eyak Corporation	\$7,500.0	Sept.
Afognak Joint Ventures	\$10,500.0	Sept.

The FFY 2001 land payments include the following.

Koniag, Incorporated *	\$16,500.0	Sept.
Kodiak Island Borough * (Shuyak)	\$4,000.0	Sept.
Eyak Corporation	\$7,500.0	Sept.
Afognak Joint Ventures	\$10,500.0	Sept.

The FFY 2002 land payments include the following.

Kodiak Island Borough * (Shuyak)	\$11,805.7	Sept.
Afognak Joint Ventures	\$10,500.0	Sept.

attachments

AFT
EVOS Financial Plan
Stated in Thousands

	FFY 1997	FFY 1998	FFY 1999	FFY 2000	FFY 2001	FFY 2002	FFY 2003
Joint Trust Fund, Beginning Balance	76,957.8 [1]	3,075.7	4,456.2	22,151.3	40,915.8	50,996.8	18,976.1
Exxon Payment	70,000.0	70,000.0	70,000.0	70,000.0	70,000.0		
Reimbursements	-5,000.0 [2]	-5,000.0	-5,000.0	-5,000.0			
Interest Earned (estimate)	1,595.1	162.1	300.1	643.9	1,562.1	1,900.0	79.1
Estimated Revenue	143,552.9	68,237.8	69,756.3	87,795.2	112,478.0	52,896.8	19,055.1
Administration, Scientific Mgt. & Public Info.	2,812.1 [3]	2,500.0	1,700.0	1,500.0	1,500.0	0.0	
FY General Restoration-Monitor & Research	14,181.6 [4]	12,000.0	12,000.0	12,000.0	10,000.0	0.0	
Habitat Protection:							
Acquisition Down Payments	58,500.0	0.0	0.0	0.0	0.0	0.0	
Large Acquisition Payments	41,081.0	37,505.4	22,000.0	22,000.0	38,500.0	22,305.7	0.0
Small Parcel Payments	12,157.3	0.0	0.0	0.0	0.0	0.0	
Associated Costs	200.0 [5]	0.0	0.0	0.0	0.0	0.0	
Special Projects	3,570.6						
Alaska Sealife Center	0.0	0.0	0	0	0	0	
CRIS Management Fees (estimate)	159.5	16.2	30.0	64.4	156.2	190.0	7.9
Restoration Reserve Contribution	12,600.0	12,600.0	12,600.0	12,000.0	12,000.0	12,000.0	
Estimated Expenses	145,262.1	64,621.6	48,330.0	47,564.4	62,156.2	34,495.7	7.9
Lapse/Interest Adjustment (estimate)	4,784.9 [6]	840.0	725.0	685.0	675.0	575.0	
Adjusted Joint Trust Fund, Ending Balance	3,075.7	4,456.2	22,151.3	40,915.8	50,996.8	18,976.1	19,047.2

Footnotes:

1. Balance as of September 30, 1996
2. Represents Reimbursements due the State of Alaska.
3. An estimate of \$2,800.0 has been included for the FFY 1998 Work Plan (occurring in September of 1997). The additional \$12.1 (FY97) approved 12/6/96 has been included.
4. An estimate of \$14,000.0 has been included for the FFY 1998 Work Plan (occurring in September of 1997). The additional \$609.2 (FY97, less interest) approved 12/6/96 has been included.
5. An estimated of \$200.0 has been included for the FFY 1998 Work Plan (occurring in September of 1997).
6. The adjustment in 97' represents the unobligated/unexpended balance of prior years Work Plans and the unobligated/unexpended balance of the 96 Work Plan (as of 9/30/96). The estimates for future years are based on an adjustment of 5% of each prior year Work Plan.

FT
EVOS Monthly Cash Flow Estimate
Stated in Thousands

FFY 1997													
Beginning Balance	76,957.8	77,226.0	71,628.0	70,663.3	42,538.3	42,076.5	35,208.1	21,789.5	19,863.7	1,870.7	1,877.7	1,884.7	
Item	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Total
FY Increases & Other Authorization													0.0
Administration, SRB & Public Info.			12.1									2,800.0	2,812.1
FY General Restoration-Monitor & Research			181.6									14,000.0	14,181.6
Habitat Protection Down Payments				24,000.0		3,000.0	13,500.0		18,000.0				58,500.0
Large Parcel Payments		3,075.6										38,005.4	41,081.0
Small Parcel Acquisitions		2,790.0	1,035.0	2,713.3	619.0	4,000.0						1,000.0	12,157.3
Habitat Protection Associated Costs												200.0	200.0
Alaska Sealife Center													0.0
Special Projects				1,570.6				2,000.0					3,570.6
Restoration Reserve Contribution												12,600.0	12,600.0
CRIS Management Fees	29.8	29.7	29.3	17.7	17.5	14.6	9.0	8.2	0.8	0.8	0.8	1.3	159.5
Exxon Payment after Reimbursements												65,000.0	65,000.0
Gross Interest (estimate)	298.0	297.3	293.3	176.6	174.7	146.2	90.5	82.5	7.8	7.8	7.8	12.8	1,595.1
Interest/Lapse (estimate)												4,784.9	
Ending Balance	77,226.0	71,628.0	70,663.3	42,538.3	42,076.5	35,208.1	21,789.5	19,863.7	1,870.7	1,877.7	1,884.7	3,075.7	
FFY 1998													
Beginning Balance	3,075.7	3,087.2	3,098.8	3,110.4	3,122.1	3,133.8	3,145.6	3,157.4	3,169.2	3,181.1	3,193.0	3,205.0	
Item	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Total
FY Increases & Other Authorization													0.0
Administration, SRB & Public Info.												2,500.0	2,500.0
FY General Restoration-Monitor & Research												12,000.0	12,000.0
Habitat Protection Down Payments													0.0
Large Parcel Payments												37,505.4	37,505.4
Small Parcel Acquisitions													0.0
Habitat Protection Associated Costs													0.0
Alaska Sealife Center													0.0
Restoration Reserve Contribution												12,600.0	12,600.0
CRIS Management Fees	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.8	16.2
Exxon Payment after Reimbursements												65,000.0	65,000.0
Gross Interest (estimate)	12.8	12.9	12.9	13.0	13.0	13.1	13.1	13.2	13.2	13.3	13.3	18.5	162.1
Interest/Lapse (estimate)												840.0	
Ending Balance	3,087.2	3,098.8	3,110.4	3,122.1	3,133.8	3,145.6	3,157.4	3,169.2	3,181.1	3,193.0	3,205.0	4,456.2	

AFT
EVOS Monthly Cash Flow Estimate
Stated in Thousands

FFY 1999													
Beginning Balance	4,456.2	4,472.9	4,489.7	4,506.6	4,523.5	4,540.4	4,557.4	4,574.5	4,591.7	4,608.9	4,626.2	4,643.5	
Item	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Total
FY Increases & Other Authorization													0.0
Administration, SRB & Public Info.												1,700.0	1,700.0
FY General Restoration-Monitor & Research												12,000.0	12,000.0
Habitat Protection Down Payments													0.0
Large Parcel Payments												22,000.0	22,000.0
Small Parcel Acquisitions													0.0
Habitat Protection Associated Costs													0.0
Alaska Sealife Center													0.0
Restoration Reserve Contribution												12,600.0	12,600.0
CRIS Management Fees	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	9.2	30.0
Exxon Payment after Reimbursements												65,000.0	65,000.0
Gross Interest (estimate)	18.6	18.6	18.7	18.8	18.8	18.9	19.0	19.1	19.1	19.2	19.3	92.0	300.1
Interest/Lapse (estimate)												725.0	
Ending Balance	4,472.9	4,489.7	4,506.6	4,523.5	4,540.4	4,557.4	4,574.5	4,591.7	4,608.9	4,626.2	4,643.5	22,151.3	
FFY 2000													
Beginning Balance	22,151.3	10,189.4	10,227.6	10,265.9	10,304.4	10,343.1	10,381.9	10,420.8	10,459.9	10,499.1	10,538.5	10,578.0	
Item	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Total
FY Increases & Other Authorization													0.0
Administration, SRB & Public Info.												1,500.0	1,500.0
FY General Restoration-Monitor & Research												12,000.0	12,000.0
Habitat Protection Down Payments													0.0
Large Parcel Payments												22,000.0	22,000.0
Small Parcel Acquisitions													0.0
Habitat Protection Associated Costs													0.0
Alaska Sealife Center													0.0
Restoration Reserve Contribution	12,000.0												12,000.0
CRIS Management Fees	4.2	4.2	4.3	4.3	4.3	4.3	4.3	4.3	4.4	4.4	4.4	17.0	64.4
Exxon Payment after Reimbursements												65,000.0	65,000.0
Gross Interest (estimate)	42.3	42.5	42.6	42.8	42.9	43.1	43.3	43.4	43.6	43.7	43.9	169.8	643.9
Interest/Lapse (estimate)												685.0	
Ending Balance	10,189.4	10,227.6	10,265.9	10,304.4	10,343.1	10,381.9	10,420.8	10,459.9	10,499.1	10,538.5	10,578.0	40,915.8	

AFT
EVOS Monthly Cash Flow Estimate
Stated in Thousands

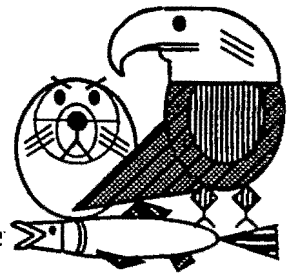
FFY 2001													
Beginning Balance	40,915.8	29,024.3	29,133.1	29,242.4	29,352.0	29,462.1	29,572.6	29,683.5	29,794.8	29,906.5	30,018.7	30,131.2	
Item	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Total
FY Increases & Other Authorization													0.0
Administration, SRB & Public Info.												1,500.0	1,500.0
FY General Restoration-Monitor & Research												10,000.0	10,000.0
Habitat Protection Down Payments													0.0
Large Parcel Payments												38,500.0	38,500.0
Small Parcel Acquisitions													0.0
Habitat Protection Associated Costs													0.0
Alaska Sealife Center													0.0
Restoration Reserve Contribution	12,000.0												12,000.0
CRIS Management Fees	12.0	12.1	12.1	12.2	12.2	12.3	12.3	12.4	12.4	12.5	12.5	21.2	156.2
Exxon Payment after Reimbursements												70,000.0	70,000.0
Gross Interest (estimate)	120.5	120.9	121.4	121.8	122.3	122.8	123.2	123.7	124.1	124.6	125.1	211.7	1,562.1
Interest/Lapse (estimate)												675.0	
Ending Balance	29,024.3	29,133.1	29,242.4	29,352.0	29,462.1	29,572.6	29,683.5	29,794.8	29,906.5	30,018.7	30,131.2	50,996.8	
FFY 2002													
Beginning Balance	50,996.8	39,143.0	39,289.8	39,437.1	39,585.0	39,733.5	39,882.5	40,032.0	40,182.1	40,332.8	40,484.1	40,635.9	
Item	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Total
FY Increases & Other Authorization													0.0
Administration, SRB & Public Info.													0.0
FY General Restoration-Monitor & Research													0.0
Habitat Protection Down Payments													0.0
Large Parcel Payments												22,305.7	22,305.7
Small Parcel Acquisitions													0.0
Habitat Protection Associated Costs													0.0
Alaska Sealife Center													0.0
Restoration Reserve Contribution	12,000.0												12,000.0
CRIS Management Fees	16.2	16.3	16.4	16.4	16.5	16.6	16.6	16.7	16.7	16.8	16.9	7.9	190.0
Exxon Payment													0.0
Gross Interest (estimate)	162.5	163.1	163.7	164.3	164.9	165.6	166.2	166.8	167.4	168.1	168.7	78.8	1,900.0
Interest/Lapse (estimate)												575.0	
Ending Balance	39,143.0	39,289.8	39,437.1	39,585.0	39,733.5	39,882.5	40,032.0	40,182.1	40,332.8	40,484.1	40,635.9	18,976.1	

Exxon Valdez Oil Spill Trustee Council

Restoration Office

645 G Street, Suite 401, Anchorage, Alaska 99501-3451

Phone: (907) 278-8012 Fax: (907) 276-7178



PROTOCOLS FOR INCLUDING INDIGENOUS KNOWLEDGE IN THE EXXON VALDEZ OIL SPILL RESTORATION PROCESS

**Adopted by Exxon Valdez Oil Spill Trustee Council
December 6, 1996**

Introduction, Purpose, and Objectives

Indigenous knowledge, including traditional ecological knowledge (TEK), provides an important perspective that can help the *Exxon Valdez* Oil Spill (EVOS) restoration effort by providing information and analysis of the environment and resources affected by the oil spill. Fishers, hunters, and gatherers have detailed descriptions of animal behavior and ecology. For many species, subsistence harvesters possess the following information:

- where it is found in any season
- what it eats
- how it moves from place to place
- when it mates
- where its young are born
- what preys on it
- how it protects itself
- how best to hunt for it
- population cycles

As astute observers of the natural world and as repositories of knowledge on the long term changes in their biophysical environment, practitioners of TEK can provide western biologists and ecologists with systematic and analytical observations that cover many years. While the differences between indigenous and scientific ways of knowing must be understood, restoration projects which successfully incorporate both perspectives will improve our collective understanding of the natural processes involved in the EVOS-affected region.

Working in and with Alaska Native communities requires sensitivity to their cultures, customs, traditions, and history. Successful working relationships are built on mutual respect and trust. The people of the communities of the oil spill area have experienced severe dislocations in their lives due to the *Exxon Valdez* Oil Spill. Subsistence and

commercial fishing activities have been interrupted. Researchers and agency personnel have used the communities as logistical bases. Disruptions related to the clean up, litigation, and increased bureaucratic demands have impacted the people's ability to conduct their daily business.

As a consequence of these stresses to their privacy and out of concern to preserve respect for their traditions, the Alaska Native communities of the area affected by the spill, assisted by EVOS staff, the Chugach Regional Resources Commission, and staff from Trustee Council agencies, have developed a series of protocols formalizing their relationship with outside researchers. These protocols provide a set of guidelines that will facilitate collaboration between Alaska Natives and scientists in meeting the goals of EVOS restoration. The protocols describe the major elements of a research partnership, but their application depends on common sense and courtesy. For those researchers planning to collaborate with local respondents in the collection of indigenous knowledge or whose proposed research directly affects subsistence activities, the EVOS Trustee Council requires consideration of these protocols prior to the initiation of research.

The objectives of these protocols are:

1. Provide guidelines for restoration project planning and review
2. Identify a set of ethical principles that establishes the parameters for a research partnership between Alaska Native communities and restoration scientists
3. Establish procedures for facilitating the collection of indigenous knowledge in restoration projects
4. Provide guidance on the development of research agreements between Alaska Native communities and researchers.

Protocols

1. Project planning and review.

- a) In developing projects that include the collection and use of indigenous knowledge, researchers and community residents should keep in mind how this information will be used in improving restoration, management, education, and future research.
- b) In designing restoration projects that include indigenous knowledge, researchers should recognize that local communities' knowledge of and interest in natural resources extends beyond the physical boundaries of the communities themselves to their harvest areas and beyond.
- c) All research proposals involving indigenous knowledge will be reviewed by the TEK Specialist, the Community Facilitators, and village councils, and their recommendations will be forwarded to the Executive Director. The overall program of research involving indigenous knowledge will be reviewed annually.
- d) Costs for incorporating TEK in a restoration project should be reflected in the project's budget.

2. Ethical principles. EVOS research which involves the collection and use of indigenous knowledge should follow the ethical principles for research listed below, which are based upon guidelines adopted by the Alaska Federation of Natives (AFN) Board of Directors in May 1993 (attached).

- e) Advise Alaska Native communities and people who are to be involved in or affected by the study of the purpose, goals, and time-frame of the research, the proposed data-gathering techniques, and the potential positive and negative implications and impacts of the research.
- f) Obtain the informed consent of the appropriate governing bodies and of individual participants
- g) Protect the knowledge and cultural/intellectual property of the Alaska Native people
- h) Seek to hire local community research assistants, and provide meaningful training to Alaska Native people to develop research skills, as appropriate
- i) Use the local Alaska Native language in oral communications whenever English is the second language
- j) Address issues of confidentiality of sensitive material
- k) Include Alaska Native viewpoints in the final study report
- l) Acknowledge the contributions of local research assistants and respondents in project reports
- m) Provide the communities with a summary of the major findings of the study in non-technical language.
- n) Provide copies of the annual and final project reports and related publications to the local library

The AFN Guidelines also include establishing and funding a "Native Research Committee." This may not be necessary in most EVOS Restoration Projects, depending upon the scope of the collection of indigenous knowledge and the wishes of the local community. Also, a new entity may not be necessary. For example, the traditional council may serve as such a review body. This point should be addressed in a "research agreement," as discussed in #4, below.

3. Facilitating the collection of indigenous knowledge.

- o) Initial contacts should be made through the TEK Specialist hired under Project 97052B to discuss the potential collection of indigenous knowledge in a project. The TEK Specialist will then pass the requests on to the communities concerned, and assist in establishing contact between the researcher and the Community Facilitator. The TEK Specialist will also inform the Spill Area Wide Coordinator of such requests.
- p) Once contact has been established through the TEK Specialist, researchers should use the Community Facilitator or designee as the primary community contact.
- q) The Community Facilitator or designee will arrange for the researcher to meet with

the Village Council (or other appropriate body authorized by the Village Council) to discuss the project's goals, scope, methods, expectations, benefits and risks. The Facilitator or designee will help orient the researcher to the community and its customs.

4. Research agreements.

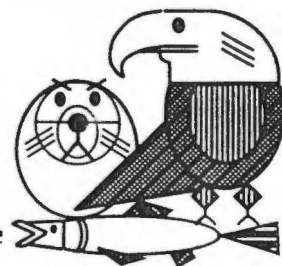
The researcher and the Village Council (or other appropriate body authorized by the Village Council), assisted by the Community Facilitator, will work together to set up a research agreement. In developing the agreement, the following topics should be considered: the nature of the research, the form of consent that will be required, the need for local research assistants, compensation of participants, acknowledgments, anonymity and confidentiality of personal and other sensitive information, project monitoring, project review, final disposition of data, and provision of study results. The agreement may take one of several forms, such as a binding contract, a memorandum of agreement, a letter of agreement, or a village resolution. In any agreement, the responsibility and expectations of the researcher and the community should be spelled out. Terms and conditions should be clear and understandable to all parties, should not place unreasonable or unfair burdens on the participants, and must be consistent with applicable laws.

Exxon Valdez Oil Spill Trustee Council

Restoration Office

645 G Street, Suite 401, Anchorage, Alaska 99501-3451

Phone: (907) 278-8012 Fax: (907) 276-7178



December 5, 1996

Mr. Richard Cook
Caldera Corporation
444 Sea Breeze Blvd. — Suite 435
Daytona Beach, Florida 32115

Dear Mr. Cook,

I understand that you called with an inquiry concerning the *Exxon Valdez* Oil Spill Trustee Council's habitat protection program and that you are interested in obtaining further information.

As you may be aware, the Trustee Council has two habitat protection programs — a Large Parcel Program (for tracts of land greater than 1,000 acres) and a Small Parcel Program (for tracts of land less than 1,000 acres).

For your reference, I have enclosed: (1) status reports that describe the progress being made under the two respective programs; (2) a copy of a small parcel nomination packet; and (3) a copy of the Trustee Council's most recent annual report that provides an overall description of the Trustee Council's restoration efforts. In general, the small parcel program has involved fee simple acquisition of smaller parcels with strategic restoration benefits (for example, along the Kenai River) while the large parcel program has addressed much larger tracts of land and watersheds using a combination of fee acquisitions along with purchase of other interests (conservation easements).

If you would like additional information, please let me know. I understand that you will be visiting Anchorage in the near future. Please feel free to call if you would like to discuss our habitat protection program efforts further.

Sincerely,

Eric Myers
Director of Operations

attachments

Attachments =
Lg. status Rpt } Parcel
Sm. status Rpt }
Sm. Parcel nom. packet
Annual Report

Trustee Agencies

State of Alaska: Departments of Fish & Game, Law, and Environmental Conservation

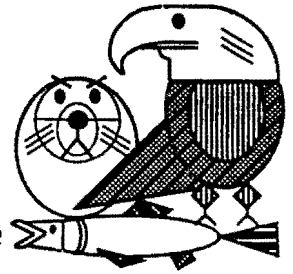
United States: National Oceanic and Atmospheric Administration, Departments of Agriculture and Interior

Exxon Valdez Oil Spill Trustee Council

Restoration Office

645 G Street, Suite 401, Anchorage, Alaska 99501-3451

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MEMORANDUM

TO: Catherine Berg/DOI

FROM: Molly McCommon
Executive Director

RE: Partial Authorization: Project 97025/Mechanisms of Impact and Potential Recovery of Nearshore Vertebrate Predators (NVP)

DATE: December 5, 1996

With the submittal yesterday to the Chief Scientist of the final report on Project 95320Q, the expenditure of funds for the analysis of FY 96 data from the avian copredator component of Project 97025/Mechanisms of Impact and Potential Recovery of Nearshore Vertebrate Predators (NVP) is now authorized. Funding for the final year of avian copredator work (\$30,500, which is expected to be approved by the Trustee Council at its December 6 meeting) will be authorized once NEPA documentation for that work is complete and the Executive Director has approved the proposed collection activity.

All work must be performed consistent with the Detailed Project Description dated April 15, 1996.

cc: Lisa Thomas, NBS/DOI
Dave Gibbons, USFS

Trustee Agencies

State of Alaska: Departments of Fish & Game, Law, and Environmental Conservation

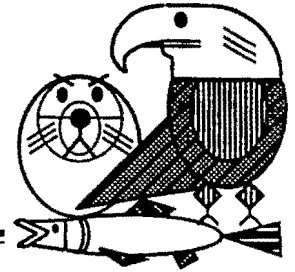
United States: National Oceanic and Atmospheric Administration, Departments of Agriculture and Interior

Exxon Valdez Oil Spill Trustee Council

Restoration Office

645 G Street, Suite 401, Anchorage, Alaska 99501-3451

Phone: (907) 278-8012 Fax: (907) 276-7178



December 3, 1996

Walter Meganack, Jr.
Port Graham Village Council
PO Box 5510
Port Graham, Alaska 99603-5510

Dear Walter:

Thank you for your letter in reply to Rita Miraglia's research on herring. You also mention crabs and shrimp.

You do not need to persuade me that subsistence harvests of herring are important in Port Graham, even if there is no commercial fishery in your area. The data in Rita's letter suggest that in 1991/2, for example, Port Graham residents harvested more than 900 pounds of herring, which is a lot. However, based on the Alaska Department of Fish and Game surveys in the general area, there also does not seem to be any reason to think that local herring populations are in any kind of trouble, either from the *Exxon Valdez* oil spill or from other factors.

There was definite evidence of injury to herring in Prince William Sound, and, on that basis, the Trustee Council has made a major investment in herring work in that area. Beyond documenting the initial oil-spill injury to herring, studies sponsored by the Trustee Council are now trying to determine why the population collapsed in the Sound in 1993 (it looks like disease) and to understand the factors in the ecosystem that control the size of the herring population from year to year. Although most of this work has been carried out in the Sound, the results of this work on disease and on factors controlling herring populations should benefit management of subsistence and commercial herring fisheries throughout the spill area.

Walter, although the work now underway helps us all understand herring populations and will improve herring management and conservation, I also must tell you honestly that no one has identified any realistic way that we can simply go out and do something to make more herring. Herring populations are not easily supplemented the way that salmon are, and we need to be realistic about what can be achieved.

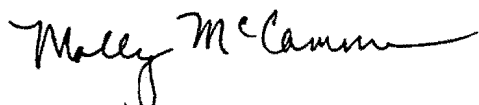
Trustee Agencies

State of Alaska: Departments of Fish & Game, Law, and Environmental Conservation
United States: National Oceanic and Atmospheric Administration, Departments of Agriculture and Interior

In regard to crabs and shrimp, I asked Dr. Robert Spies and Stan Senner to review the work that has been done on crabs and shrimp and to explore whether there is anything we can do to supplement their populations for the benefit of subsistence or commercial users. They reported to me that there was no convincing evidence of injury due to the oil spill. More importantly, they did not discover any realistic projects that would enhance or supplement crab and shrimp populations. We can undertake an expensive long-term research program on crab and shrimp that would undoubtedly benefit their management in the future, but there is nothing we can do in the near-term that will simply produce more crabs and shrimp. I know that Port Graham and other communities (for example, on Kodiak Island) are very interested in crabs and shrimp. But again, Walter, I must be honest and say that there is no easy solution to the lack of crabs and shrimp. So far, in fact, the main conclusion of the work supported by the Trustee Council is that a natural increase in the temperature of seawater has made conditions unfavorable for crab and shrimp. If this is true, and our researchers think it is, we simply cannot fight Mother Nature.

Thank you again for raising these concerns, which I take very seriously. I am happy to discuss these issues again when the community facilitators meet at the 1997 Restoration Workshop in January or sooner, if we have the opportunity. We welcome any suggestions you may have about work that can or should be done to benefit subsistence uses of herring, crabs, and shrimp.

Sincerely,



Molly McCammon
Executive Director

cc: Dr. Robert Spies, Chief Scientist
Rita Miraglia, ADF&G
Martha Vlasoff, Community Coordinator

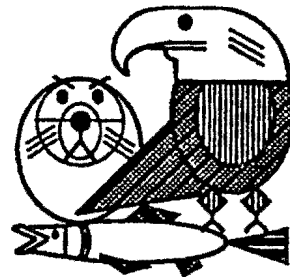
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Exxon Valdez Oil Spill Trustee Council

Restoration Office

645 "G" Street, Anchorage, AK 99501

Phone: (907) 278-8012 Fax: (907) 276-7178



MEMORANDUM

TO: Agency Liaisons
FROM: *Traci Cramer*
Traci Cramer
Administrative Officer

DATE: December 3, 1996

RE: Draft Court Request

The attached resolution incorporates funding associated with acquisition of the Lowell Point small parcel and funding associated with the deferred projects. Since the plan is to have the Trustees' sign the resolution at the December 6th meeting, it is requested that you review the resolution and communicate any changes to me **by close of business Thursday, December 5th.**

If you have any questions, give me a call at (907) 586-7238.

attachments

cc: Molly McCammon
Gina Belt
Craig Tillery

Trustee Agencies

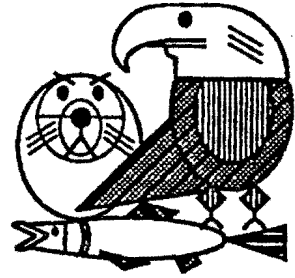
State of Alaska: Departments of Fish & Game, Law, and Environmental Conservation
United States: National Oceanic & Atmospheric Administration, Departments of Agriculture and Interior

Exxon Valdez Oil Spill Trustee Council

Restoration Office

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DRAFT

RESOLUTION OF THE

EXXON VALDEZ OIL SPILL TRUSTEE COUNCIL

We, the undersigned, duly authorized members of the *Exxon Valdez* Oil Spill Trustee Council do hereby certify that, in accordance with the Memorandum of Agreement and Consent Decree entered as settlement of United States of America v. State of Alaska, No. A91-081 Civil, U.S. District Court for the District of Alaska, and after public meetings, unanimous agreement has been reached to expend funds received in settlement of State of Alaska v. Exxon Corporation, et al., No. A91-083 CIV, and United States of America v. Exxon Corporation, et al., No. A91-082 CIV, U.S. District Court for the District of Alaska, for necessary natural resource damage assessment and restoration activities. The total approved for all the items, appended hereto, is \$1,140,200. This includes \$531,000 to fund the acquisition of approximately 19.4 acres located along Resurrection Bay (KEN 1015) and \$609,200 for implementation of the 1997 Work Plan.

Trustee Agencies

State of Alaska: Departments of Fish & Game, Law, and Environmental Conservation

United States: National Oceanic & Atmospheric Administration, Departments of Agriculture and Interior

DRAFT

The monies are to be distributed according to the following schedule:

Alaska Department of Fish & Game	215,400
Alaska Department of Natural Resources	598,800
Alaska Department of Environmental Conservation	15,100

SUBTOTAL TO STATE OF ALASKA	\$829,300
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U.S. Department of Agriculture, Forest Service	80,500
U.S. Department of the Interior	74,400
National Oceanic & Atmospheric Administration	156,000

SUBTOTAL TO UNITED STATES OF AMERICA	\$310,900
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TOTAL APPROVED	\$1,140,200
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In accordance with the Financial Operating Procedures adopted by the Trustee Council, the amount of funds requested from the Joint Trust Fund is to be reduced by the amount of interest previously earned from settlement funds held by the Federal and State governments and any unobligated fund balances from previously approved budgets. Since the last disbursement from the Joint Trust Fund, the amount of interest earned is \$29,043 for the United States and \$398,567 for the State of Alaska. Accordingly, the amount to be withdrawn from the fund for interest earned will be reduced by \$427,610.

By unanimous consent, we hereby request the Attorney General of the State of Alaska and the Assistant Attorney General of the Environmental and Natural Resources Division of the United States Department of Justice to petition the United States District Court for the District of Alaska for withdrawal of the sum of \$712,590 from the Court Registry account established as a result of the governments' settlement with the Exxon Corporation. Of this amount \$281,857 shall go to the United States of America and \$430,733 shall go to the State of Alaska.

DRAFT

_____ Dated _____

PHIL JANIK
Regional Forester
Alaska Region
USDA Forest Service

_____ Dated _____

BRUCE M. BOTELHO
Attorney General
State of Alaska

_____ Dated _____

GEORGE T. FRAMPTON, Jr.
Assistant Secretary for Fish,
Wildlife & Parks
U.S. Department of the Interior

_____ Dated _____

STEVEN PENNOYER
Director, Alaska Region
National Marine Fisheries Service

_____ Dated _____

FRANK RUE
Commissioner
Alaska Department of Fish & Game

_____ Dated _____

MICHELLE BROWN
Commissioner
Alaska Department of Environmental
Conservation

EXXON VALDE STEE COUNCIL
1997 Federal Fiscal Year Project Budget
October 1, 1996 - September 30, 1997

DRAFT

Agency	Cooperating Agency(s)	Project Number	Project Title	First 1997 Court Request	Second 1997 Court Request
ADEC	All	97026-CLO	Report Writing: Microbial Sediments		15.1
		97100	Administration, Public Information and Scientific Management	59.2	
		97115	Implementation of the Sound Waste Management Plan	1,167.9	
		97291	Chenega-Area Shoreline Residual Oiling Reduction	21.7	
		97304	Kodiak Waste Management Plan	267.5	
ADEC Total				1,516.3	15.1
ADF&G	DOI/NOAA/USFS	97001	Recovery of Harbor Seals From EVOS: Condition and Health Status	192.0	
		97025	Mechanisms of Impact and Potential Recovery of Nearshore Vertebrate Predators	410.8	
		97052A	Community Involvement	248.4	
		97052B	Traditional Ecological Knowledge	94.5	
		97064	Monitoring, Habitat Use, and Trophic Interactions of Harbor Seals in PWS	317.8	
	All ADNR/DOI/USFS	97100	Administration, Public Information and Scientific Management	1,916.2	
		97126	Habitat Protection and Acquisition Support	18.3	
		97127	Tatitlek Coho Salmon Release	11.1	
		97131	Chugach Native Region Clam Restoration	365.0	
		97139A1	Salmon Instream Habitat and Stock Restoration - Little Waterfall Barrier Bypass Improvement	26.4	
	NOAA/DOI	97139A2	Port Dick Creek Tributary and Development Project	76.5	
		97162	Investigations of Disease Factors Affecting Declines of Pacific Herring Populations in Prince William Sound	517.7	
		97163L	APEX: Barren Is. Survey & Historic Review	28.8	
		97165	Genetic Discrimination of Prince William Sound Herring Populations	41.6	
		97166	Herring Natal Habitats	200.0	140.3
	ADNR	97170	Isotope Ratio Studies of Marine Mammals in Prince William Sound	143.3	
		97180	Kenai Habitat Restoration & Recreation Enhancement Project	268.5	
		97186	Coded Wire Tag Recoveries From Pink Salmon in Prince William Sound	273.8	
		97188	Otolith Thermal Mass Marking of Hatchery Reared Pink Salmon In Prince William Sound	120.1	
		97190	Construction of a Linkage Map for the Pink Salmon Genome	254.5	
	All	97191A	Field Examination of Oil-Related Embryo Mortalities that Persist in Pink Salmon Populations in PWS	208.5	
		97196	Genetic Structure of Prince William Sound Pink Salmon	195.5	
		97197	Alaska SeaLife Center Fish Pass	545.6	
		97210	Youth Area Watch	150.0	
		97214-CLO	Documentary on Subsistence Harbor Seal Hunting in Prince William Sound	12.1	
	All	97225	Port Graham Pink Salmon Subsistence Project	74.4	
		97244	Community-based Harbor Seal Management and Biological Sampling	114.9	
		97247	Kametolook River Coho Salmon		31.4
		97250	Project Management	304.9	
		97250	Project Management/NOAA IPA	98.2	

EXXON VALDEZ JUSTICE COUNCIL
1997 Federal Fiscal Year Project Budget
October 1, 1996 - September 30, 1997

DRAFT

Agency	Cooperating Agency(s)	Project Number	Project Title	First 1997 Court Request	Second 1997 Court Request
ADNR	USFS	97251-CLO	Akalura Lake Restoration		43.7
		97255-CLO	Kenai River Sockeye Salmon Restoration	158.3	
		97256B	Sockeye Salmon Stocking at Solf Lake		
		97258A-CLO	Sockeye Salmon Overescapement Project	214.0	
		97259-CLO	Restoration of Coghill Lake Sockeye Salmon	46.8	
		97263	Port Graham Salmon Stream Enhancement	58.0	
		97272-CLO	Chenega Chinook Release Program	45.0	
		97320E	SEA: Salmon and Herring Predation	631.8	
		97320G	SEA: Phytoplankton and Nutrients	130.0	
		97320H	SEA: Zooplankton	136.4	
		97320K	SEA: PWSAC Experimental Fry Release	24.8	
		97320R	SEA: Trophodynamic Modeling and Validation Through Remote Sensing	182.1	
		97320T	SEA: Juvenile Herring	899.8	
		97320U	SEA: Somatic and Spawning Energetics of Herring, Pollock and Pink Salmon	154.4	
		97320Z1	SEA: Synthesis and Integration	61.3	
		97427	Harlequin Duck Recovery Monitoring	252.5	
		ADF&G Total		10,224.6	215.4
	DOI/USFS	97007A	Archaeological Index Site Monitoring	88.3	
	All	97100	Administration, Public Information and Scientific Management	631.9	
	ADF&G/DOI/USFS	97126	Habitat Protection and Acquisition Support	396.4	
	DOI	97149	Archaeological Site Stewardship	46.3	
	ADF&G	97180	Kenai Habitat Restoration & Recreation Enhancement Project	330.9	
	All	97230	Valdez Duck Flats Restoration		67.8
		97250	Project Management	41.9	
		97300	Synthesis of Scientific Findings from EVOS Restoration Process	64.9	
	ADNR Total			1,600.6	67.8
USFS	ADNR/DOI	97007A	Archaeological Index Site Monitoring	25.0	
		97007B-CLO	Site Specific Archaeological Restoration	19.9	
		97009D-CLO	Survey of Octopuses in Intertidal Habitats	48.0	
	DOI/NOAA/ADF&G	97025	Mechanisms of Impact and Potential Recovery of Nearshore Vertebrate Predators	25.8	30.5
		97043B	Monitoring of Cutthroat Trout and Dolly Varden Habitat Improvement Structures	24.0	
	All	97100	Administration, Public Information and Scientific Management	68.8	
	ADF&G/ADNR/DOI	97126	Habitat Protection and Acquisition Support	413.9	
		97139C1-CLO	Montague Riparian Rehabilitation Monitoring	9.3	
	All	97145	Cutthroat Trout and Dolly Varden: Relation Among and Within Populations of Anadromous and Resident Forms	229.7	
		97220	Eastern PWS Wildstock Salmon Habitat Restoration	115.0	
		97250	Project Management	51.5	

EXXON VALDE JUDGE COUNCIL
1997 Federal Fiscal Year Project Budget
October 1, 1996 - September 30, 1997

DRAFT

Agency	Cooperating Agency(s)	Project Number	Project Title	First 1997 Court Request	Second 1997 Court Request
DOI-FWS	ADF&G	97256B	Sockeye Salmon Stocking at Solf Lake		50.0
		97291	Chenega-Area Shoreline Residual Oiling Reduction	13.7	
		97302	PWS Cutthroat Trout/Dolly Varden Inventory	12.8	
			USFS Total	1,057.4	80.5
	ADNR/USFS	97007A	Archaeological Index Site Monitoring	16.5	
		97126	Habitat Protection and Acquisition Support	429.3	
	ADF&G/ADNR/USFS	97144	Common Murre Population Monitoring	73.8	
		97149	Archaeological Site Stewardship	20.0	
	ADNR	97159-CLO	Surveys to Monitor Marine Bird Abundance in Prince William Sound During Winter and Summer: Report and Publication Writing	45.1	15.0
		97163B	APEX: Seabird Interactions	118.4	
		97163E	APEX: Kittiwakes	170.0	
		97163F	APEX: Guillemots	134.5	
		97163J	APEX: Barren Island Murres and Kittiwakes	107.0	
		97163K	APEX: Large Fish as Samplers	9.2	
		97231	Marbled Murrelet Productivity	120.0	
			DOI-FWS Subtotal	1,243.8	15.0
DOI-USGS	USFS/NOAA/ADF&G	97025	Mechanisms of Impact and Potential Recovery of Nearshore Vertebrate Predators	1,121.3	
		97163L	APEX: Barren Is. Survey & Historic Review	19.3	
	NOAA/ADF&G	97163M	APEX: Response of Seabirds to Forage Fish Density	214.0	
		97163N	APEX: Black-Legged Kittiwake Controlled Feeding Experiment	30.0	
		97169	Genetic Study of Murres, Guillemots Murrelets		59.4
			DOI-USGS Subtotal	1,384.6	59.4
DOI-NPS	ADNR/USFS	97007A	Archaeological Index Site Monitoring	15.2	
		97126	Habitat Protection and Acquisition Support	24.7	
	ADF&G/ADNR/USFS	97161	Differentiation and Interchange of Harlequin Duck Populations Within the North Pacific	98.8	
			DOI-NPS Subtotal	138.7	0.0
DOI	All All	97100	Administration, Public Information and Scientific Management	97.2	
		97250	Project Management	89.9	
		97286	Elders/Youth Conference	15.8	
		97306	Ecology and Demographics of Pacific Sand Lance	32.8	
			DOI-Subtotal	235.7	
			DOI Total	3,002.8	74.4

EXXON VALDE JUDGE COUNCIL
1997 Federal Fiscal Year Project Budget
October 1, 1996 - September 30, 1997

DRAFT

Agency	Cooperating Agency(s)	Project Number	Project Title	First 1997 Court Request	Second 1997 Court Request
NOAA	USFS/DOI/ADF&G	97012-BAA	Comprehensive Killer Whale Investigation in Prince William Sound	1.5	156.0
		97025	Mechanisms of Impact and Potential Recovery of Nearshore Vertebrate	147.9	
		97076	Effects of Oiled Incubation Substrate on Straying and Survival of Wild Pink Salmon	618.8	
	All	97090-CLO	Mussel Bed Restoration and Monitoring	10.0	
		97100	Administration, Public Information and Scientific Management	83.8	
		97142-BAA	Status and Ecology of Kittlitz's Murrelets in Prince William Sound	188.5	
		97163A	APEX: Forage Fish Assessment	406.5	
		97163C	APEX: Fish Diet Overlap	88.3	
	DOI/ADF&G	97163G	APEX: Seabird Energetics	171.0	
		97163H	APEX: Proximate Composition of Forage Fish	29.3	
		97163I	APEX: Project Management	139.2	
		97163L	APEX: Barren Is. Survey & Historic Review	43.3	
		97163O	APEX: Statistical Review	21.4	
		97163Q	APEX: Modeling	69.8	
		97167-BAA	Curation of Seabirds Salvaged from EVOS	32.1	
		97194	Pink Salmon Spawning Habitat Recovery	138.3	
	All	97195	Pristine Monitoring in Mussels and Predators of Juvenile Pink Salmon and Herring	115.3	
		97223-BAA	Publication of Sea Otter Data	43.0	
		97250	Project Management	55.2	
		97290	Hydrocarbon Data Analysis, Interpretation, and Database Maintenance	76.3	
		97291	Chenega-Area Shoreline Residual Oiling Reduction	1.0	
		97320I	SEA: Confirming Food Webs of Fishes with Stable Isotope Tracers	125.4	
		97320J	SEA: Information Systems and Model Development	554.5	
		97320M	SEA: Physical Oceanography	353.4	
		97320N	SEA: Nekton and Plankton Acoustics	364.4	
			NOAA Total	3,878.2	156.0
			Total	21,279.9	609.2

Top federal trustees give restoration efforts high marks

The work of the Exxon Valdez Oil Spill Trustee Council should be a model for restoration efforts around the world, top federal trustees said during an October news conference in Washington, D.C. marking the fifth anniversary of the criminal and civil agreements with Exxon.

"Out of one of the darkest moments in Alaska's history, much good has come as a result of the settlement," said Assistant Interior Secretary George T. Frampton, Jr.

The key to the Trustee Council's success, Frampton said, was extensive public participation in developing a restoration plan, which was completed in November 1994. This allowed a remarkable amount of progress over the last two years toward achieving the goals of that plan, he said. "We have a truly compre-

hensive community-based science and monitoring program," Frampton said.

"There is no place else certainly in the United States — and maybe the world — where a more concentrated effort is being made to study marine resources," Frampton said. In addition, he said, "we have a land acquisition and habitat protection program that has been fantastically successful."

Under Secretary of Agriculture Jim Lyons said that habitat protection was "the most significant long-term method to restore the environment and the species that had been affected by the oil spill." These lands also open up more land for recreational use, he noted. "Make no mistake about it," he said. "These regions include world class fishing rivers and bays and prime wildlife viewing and hunting areas."

Douglas Hall, deputy director of the National Oceanic and Atmospheric Administration told reporters that the research and monitoring program "has become a model for scientific cooperation." Data from this research is being used elsewhere in the country where restoration efforts are underway following an oil spill.

Executive Director Molly McCammon and Science Coordinator Stan Senner presented a slide program that detailed the progress being made toward restoration and the work remaining to be done.

Martha Stewart, Governor Knowles' aide in Washington, D.C., told reporters that research has helped Alaska fisheries knowledge advance 25 years over a five-year span. She said that further research is necessary "to better manage the human uses" of the spill area.

Exxon Valdez Oil Spill Trustee Council
Restoration Update
December 1996 / Vol. 3 No. 5

Alaska SeaLife Center to integrate public education with a working lab



John Hendricks
Alaska SeaLife Center

The Alaska SeaLife Center in Seward is scheduled to open in May 1998, combining one of the world's premier cold water research facilities with one of the state's top tourist attractions. John Hendricks took over as the SeaLife Center's first director in September, after serving five years as executive director of the Texas State Aquarium. During a recent interview, he outlined his plans for meshing public education with scientific research.

RU. The Alaska SeaLife Center is described as the second marine facility of its type in the world. Where is the other one? And what makes these two facilities so different from others?

JH. The first one is in a fjord in Norway and what makes both radically different is the temperature and the quality of the water. The one in Norway uses raw water from the fjord... with direct cold-water feeding from 275 feet down.

RU. What's the big advantage of that?
JH. It's the quality of the water that comes out

of there. It could be at 1,000 feet or at 10 feet, but it has to do with where the light penetrates, what the dissolved oxygen is, what are the biological levels in it, plus the chemistry of the water and above all, what is the temperature. The advantage is you bring directly into your facility the habitat of the animals that you want to study.

RU. And Resurrection Bay is ideal.
JH. The bottom of Resurrection Bay is like a fjord. The sides are steep and the water is deep and the ocean comes in its purest form. That's what we're looking for.

RU. The SeaLife Center is getting a reputation already as a place where the scientists will be put on display. Is that accurate?

JH. That is very accurate, but it has also caused great concern among scientists. I can assure them that they are not going to be trotted out like little

Continued on Page 2

Exxon Valdez Oil Spill Trustee Council



- | | | |
|---|--|--|
| Bruce Botelho
Attorney General
State of Alaska | George T. Frampton, Jr.
Assistant Secretary
US Dept. of Interior | Steve Pennoyer
Director, Alaska Region
National Marine
Fisheries Service |
| Michele Brown
Commissioner
Alaska Dept. of
Environmental Conservation | Phil Janik
Regional Forester
Alaska Region
US Dept. of Agriculture | Frank Rue
Commissioner
Alaska Dept. of Fish & Game |

Trustee Council Meeting
Friday, December 6, 1996
10 a.m.

Agenda items include a) Public Advisory Group nominations, b) funding of the deferred projects from the FY97 Work Plan, c) discussion of traditional ecological knowledge protocols, d) archiving policy and e) habitat acquisition. A public comment period will begin at 11 a.m.

The public is invited to participate at the Juneau Federal Building, National Marine Fisheries Service Conference Rm 445C. The meeting will be teleconferenced to Anchorage at 645 G Street, 4th Floor Conference Rm. For information on how to participate from other locations, contact Rebecca Williams at 278-8012.

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Kodiak
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benefits
island
residents
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This is the second in a series of articles describing how Exxon Valdez criminal and civil funds are being invested in the spill region. The Cook Inlet region was covered in the October 1996 issue. Prince William Sound will be featured in the next issue.

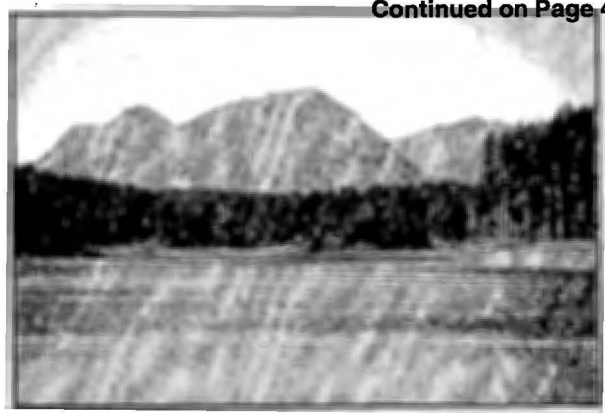
Commercial fishers, outdoor recreationists and taxpayers are beginning to feel the benefits from hundreds of millions of dollars being spent within the Kodiak Island Borough as part of restoration efforts using Exxon Valdez civil and criminal funds.

Approximately 60 percent of the spill area habitat targeted for protection can be found on Kodiak, Afognak and Shuyak islands. Nearly 335,000 acres have already been protected, much of it added to the Kodiak National Wildlife Refuge or developed into the new Afognak Island State Park.

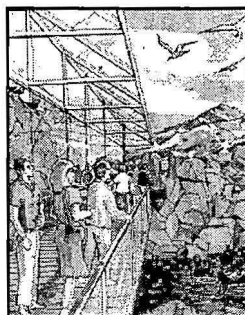
This not only helps protect anadromous rivers and open up private land to fishing, hunting, hiking and camping, but it has also

provided a bonus for taxpayers. Last July, Refuge Manager Jay Bellinger surprised the borough with a check for \$240,000 in lieu of taxes on the 109,000 acres acquired by the refuge in 1995.

Continued on Page 4



The forested mountains of Afognak Island as seen from Shuyak Island.



"The advantage is the SeaLife Center has people here who will be able to support the scientist. That takes the scientist away from the mechanics and the maintenance and the business of it and lets the scientist focus on the science."

Alaska SeaLife Center

Continued from Page 1

ponies or showdogs and go around the ring and do their little act. The reason they are there is to first of all do science. They're not there to entertain people all day.

Typically in science, exciting things don't happen every day. They happen periodically. So what we want to do is capture those high moments using an electronic medium and to capture the moments when a scientist feels most comfortable, talking about his or her work. Then we can use the electronic medium and use graphics to portray their work, focus on their work and what it means to Alaska and the Gulf of Alaska, and what it means to science in general, put those things on display and let the scientist go back to his office or her office and work.

Those who say they don't want to do their research there because they don't want to be a showdog, they don't have to worry about it.

RU. So will there be live interaction between scientists and the public?

JH. There can be if the scientist is comfortable with it. But just for a minute put yourself in the shoes of the SeaLife Center. From the middle of May to the middle of September, there's going to be from 1,000 to 3,000 people coming through the door every day. I mean, who's going to get to see the scientists? I think for the personal interviews with the scientists, we'll probably reserve that for groups (for example, college classes) on a scheduled basis.

RU. How are you going to satisfy the public's curiosity about marine life? The public has come to expect trained seals and jumping dolphins and big aquariums.

JH. As far as big aquariums, we're going to have a big aquarium. We're looking at how



The Alaska SeaLife Center is scheduled to open in May 1998.

we can have several species of Alaska crab. When people come to Alaska and they want to see Alaska, what do you think of? King crab.

RU. I'd also like to see a big halibut in its environment.

JH. We're trying to figure out where to put a big halibut in its environment. The best place to put it is in with the birds. It's good for the halibut, but we're not quite sure it's good for the birds. But we're looking, where do we put a halibut and where can we put the biggest halibut we can handle. We're looking because a flounder is a flounder, but a halibut, now that's an impressive flatfish. That's Alaska.

I don't know of anyone else who has a king crab. I've got to go to the experts and ask have you ever tried this? Do you have reports I can borrow? Has this ever been done with king crab and halibut? And we can't do this without an octopus.

RU. The more things you mention here, the bigger the aquarium is getting.

JH. Not really. The three things we talked about are right there. The place for them all is in one room. Standing in one room I could turn around and look at every one of them. This is in addition to the mammals and birds. The invertebrates are

going to be mixed with the mammals and the avians, not in the same container, but in the same space.

So you're going to go from an octopus over here to the crabs over there to the sea lion to the seal to the birds. You're really going to be looking under the waters of the Gulf of Alaska. I'm going to be a really neat thing. We've got to figure out a way to get some kelp in there or manufacture artificial kelp if the animals keep eating it.

RU. Will there literally be a window under the sea where the public will be able to look directly under Resurrection Bay?

JH. The Japanese did this at Nagoya and other places and what they found was that unless they fed the fish, you could sit there all day long and not see anything. It's the same problem with the scientists. The scientist does something really super interesting maybe every couple weeks. Well that's not enough for the 3,000 people you have in there each day. They want to see it now. So we capture what they do or we replicate it and we put together the whole interesting package that for a scientist and his project might take three years. The public will get it in three minutes video and graphics. They're going to get it concentrated.

Annual Reports and Final Reports In Print

These reports are available at the Oil Spill Public Information Center, 645 G St., Anchorage, AK 99501, or by calling 907/278-8008, 800/478-7745 (in Alaska) or 800/283-7745 (outside Alaska).

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The 1994 EVOS report, spill area site and collection plan, Project Final Report, 1995. Bittner, J.E. and D.R. Reger. 94007-1

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Herring spawn deposition and reproductive impairment, Annual Report, 1995. Wilcock, J.A. et al. 94166-1

Ichthyophonus hoferi, viral hemorrhagic septicemia virus, and other causes of morbidity in Pacific herring spawning in Prince William Sound in 1994, Annual Report, 1995. Marty, C.D. et al. 94320S

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Effects of oiled incubation substrate on straying and survival of wild pink salmon, Annual Report, 1996. Wertheimer, A.C. et al. 95076/95191B

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Kodiak area restoration

Continued from Page 1

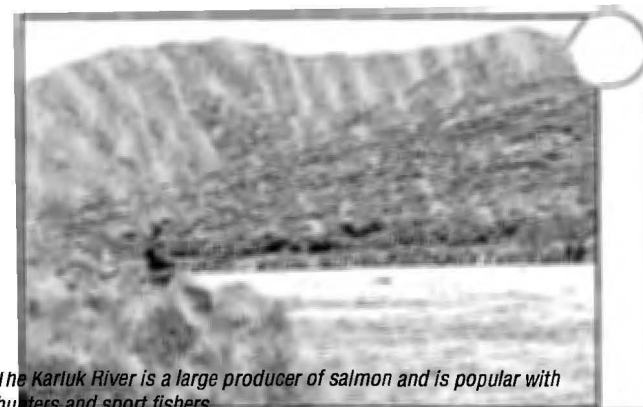
Federal law requires the payment in lieu of taxes, even though the land was not taxed under Native ownership. Bellinger says the borough will receive similar checks each year and the amount will only go up as the refuge acquires more land.

Negotiations continue for permanent protection of 57,082 acres of prime habitat along the Karluk and Sturgeon rivers. Both rivers are vital for producing salmon and are popular with hunters and sportfishers. That land is currently under a non-development easement through the year 2001. Negotiations are also underway for protection of 112,827 acres on Afognak Island, much of it slated for timber harvest.

Development of the Near Island Research Facility was made possible partly through the purchase of 26,665 acres on Shuyak Island from the Kodiak Island Borough. The borough agreed to commit \$6 million from the \$42 million pricetag to help fund construction.

The Trustee Council contributed \$1.5 million to help fund the Alutiiq Museum, which opened in May of 1995. The museum's archaeological repository is the only artifact storage facility in the spill region. It is considered a vital resource for preserving and restoring artifacts found during Kodiak-area archaeological excavations.

In addition to the large habitat protection packages, the Trustee Council is considering another 15 sites in the Kodiak Archipelago through its small parcel program. The 1,028-acre tract at Termination Point, near Kodiak, is currently being appraised. Though this was named as the number one priority by the Kodiak Island Borough, ongoing litigation concerning the property may



The Karluk River is a large producer of salmon and is popular with hunters and sport fishers.

prevent any agreement soon. The borough has also offered more than 100 parcels of 10 acres each, which are currently being evaluated.

The Kodiak Waste Management Program is in its first year of planning an island-wide program to reduce chronic sources of marine pollution, such as waste oil and household cleansers. The Kodiak Island Borough will receive \$267,500 this fiscal year to develop the program for island communities. A similar program in Prince William Sound is now in the implementation stage.

To boost the numbers of pink and coho salmon in Kodiak area waters, the Trustee Council funded building of a bypass in Little Waterfall Creek to open up more salmon spawning habitat in the upper reaches of the creek. This project received more than \$170,000 over the last three years.

A study of Akalura and Red lakes on Kodiak Island is providing valuable information about how overescapement affects future salmon runs. Each of those lakes experienced overly large numbers of spawning salmon during the summer following the oil spill.

Several ongoing community involvement programs also affect the villages of Kodiak Island. Village residents are monitoring archaeological sites, assisting researchers with traditional knowledge of local ecosystems, and collecting biological samples of harbor seals for scientific study.

The state Division of Parks is investing \$1.2 million from the Exxon criminal funds to provide trails, cabins, bridges, parking and latrines on public lands. Some of that money has been passed on to local governments for local projects.

The Department of Fish and Game picked up several weir sites as part of the large parcel program and negotiations continue for acquisition of the Karluk River weir.

Kodiak Island youth are attending a "Sp. Camp" on Afognak Island thanks to a \$250,000 grant using criminal funds.

This custom-made tile greets visitors as they come through the door at the Alutiiq Museum.

Marine Recreation Projects

These projects, in various stages of planning and construction, are funded through the Exxon criminal settlement. For more information contact either (DNR) Alaska State Parks Kodiak Office 486-6352, (KIB) Kodiak Island Borough 486-9360, or (KOD) City of Kodiak 486-8665.

End of the Road Facilities
Trails, boardwalk, parking area and latrines. (KIB) \$105,000

Island Lake Creek Trail
Trail completion, bridge, observation deck, boardwalk, signs. (KIB) \$145,000

Abercrombie Park Trail
Beach access, bridges, boardwalks. (DNR) \$60,000

Pasagshak River Rec Site
New 8-site campground with latrines. (DNR) \$150,000

Shuyak Visitor Station
New trails and small visitor facility. (DNR) \$150,000

Northeast Park/Near Island
Trails to tidelands, decks, bridges, stairs, parking, signs. (KOD) \$218,000

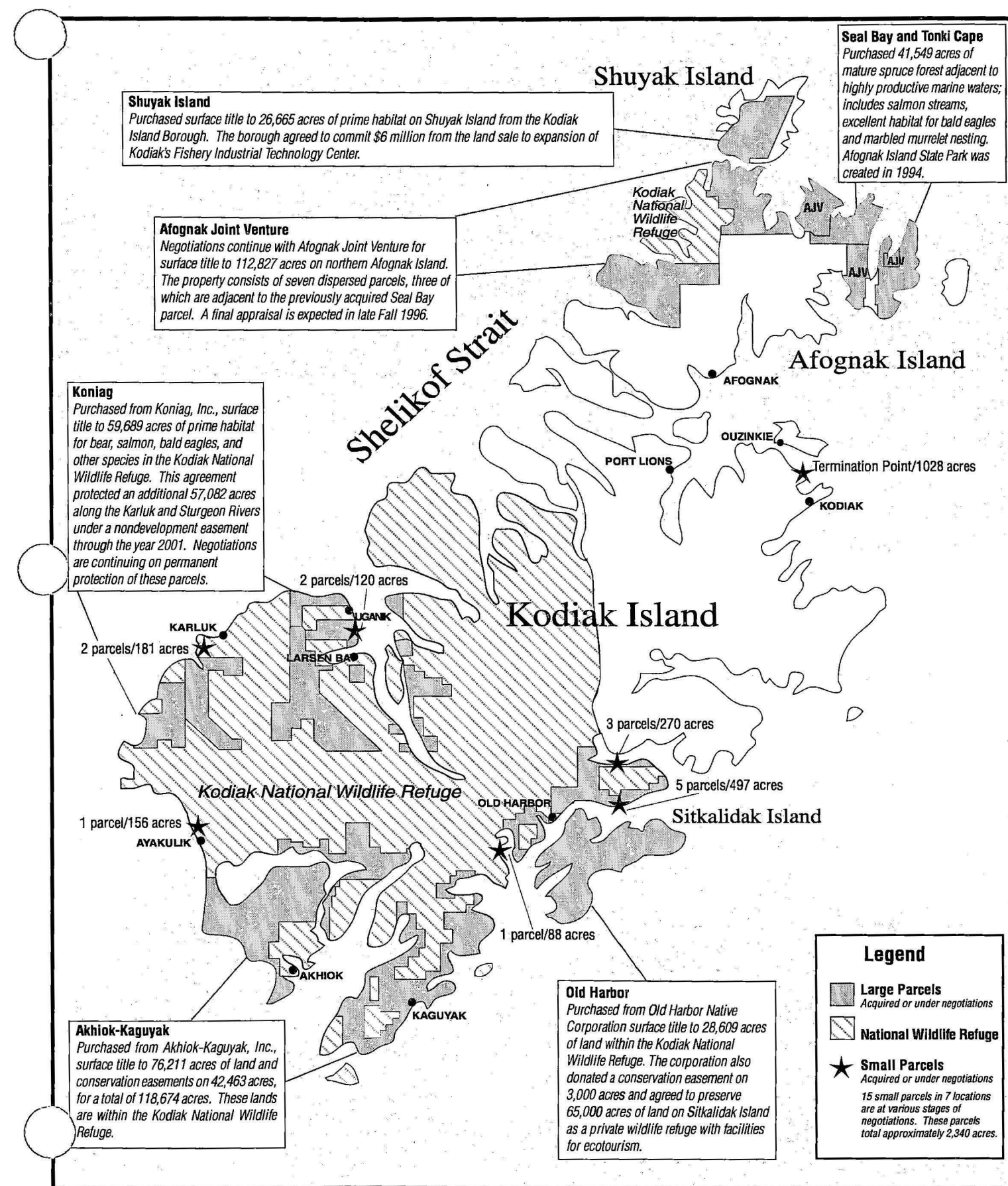
Sourdough Flats Rec Site
Trail, viewing stations, boat launch. (DNR) \$75,000

Peregrine Point Park
Launch ramp, floating dock. (DNR) \$250,000

Public Use Cabins
Construct 4 cabins in Afognak Is. State Park. (DNR) \$80,000



The acquisition of 26,625 acres on Shuyak Island could lead to expansion of Shuyak Island State Park with legislative approval.



Parks bill resolves Kenai River protection package

A parks bill signed into law November 12 by President Clinton has made it possible for the Trustee Council to proceed with a plan to protect 3,254 acres of fish and wildlife habitat on the Kenai River drainage.

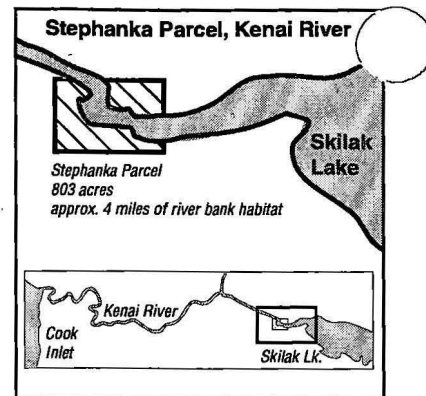
The Kenai Natives Association has offered to sell the land as part of a larger federal land trade that required Congressional approval. The signing of the parks bill opens the door to complete the acquisition.

The Trustee Council authorized \$4 million for the land,

which includes 803 acres along the Kenai River one mile downstream from the outlet of Skilak Lake.

Approximately four miles of Kenai River shoreline is protected by the package. The land is an inholding within a designated wilderness area and will be managed by the U.S. Fish and Wildlife Service.

The remainder of the package is made up of two tracts along the Moose River, totalling 2,451 acres. The parcels, located three miles northeast of Sterling, protect more than two miles of shoreline used as rearing habitat by sockeye salmon fry.



protect more than two miles of shoreline used as rearing habitat by sockeye salmon fry.

Negotiations continuing on habitat protection packages

Action continues on a number of fronts to provide long-term protection of large tracts of habitat in the spill area.

A vote by the Chenega shareholders on the Trustee Council's proposal to protect 61,000 acres of land in western Prince William Sound is scheduled for December 4.

Details of a 66,000 acre pack-

age involving Tatitlek lands in eastern Prince William Sound are being hammered out. That package is still subject to shareholder approval.

Negotiations are underway once again with Eyak Corporation for a comprehensive protection package that would include Sheep Bay, Windy Bay and Port Gravina. Eyak had earlier rejected an offer of

\$7 million to protect 11,200 acres.

Elsewhere, negotiations continue with English Bay Corp. for their inholdings in Kenai Fjords National Park and with Koniag, Inc., for permanent protection of the Karluk and Sturgeon rivers. The government's appraisal of Afognak Joint Venture lands is expected in early December.

Herring season returning to PWS

Seiners and herring pound fishers will return to Prince William Sound next April for the first harvest of herring since the population crashed in 1993.

Herring stocks are up high enough for the Alaska Department of Fish and Game

to reopen the fishery. The preliminary forecast for the 1997 spring spawning biomass is 34,000 tons, well above the 22,000 ton minimum needed before a fishery can take place.

Seiners will be allocated 2,965 tons of the 5,100 tons targeted for harvest.

Restoration Workshop plans set

The 1997 Restoration Workshop will be held at the Hotel Captain Cook in Anchorage from January 23-25.

The Restoration Workshop is the annual seminar in which scientists present and review 1996 restoration work and help shape future restoration projects. It's open to the public.

Kai N. Lee, author of *Compass and Gyroscope: Integrating science*

and politics for the environment, will be the keynote speaker for the event. Lee is director of the Center for Environmental Studies at Williams College in Massachusetts.

Special rates are available through the Hotel Captain Cook (800-478-3100 within Alaska, 800-843-1950 outside Alaska). To pre-register, call the Restoration Office at 278-8012.

Restoration Update is published six times each year by the Exxon Valdez Oil Spill Trustee Council. Its purpose is to update interested members of the public about actions, policies and plans of the Trustee Council to restore resources and services injured by the Exxon Valdez oil spill.

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RU. What about the marine mammals? Will they actually be on display?

JH. What we're doing is replicating the environment they live in. It's going to be a very familiar place to a sea lion. We'll be putting sea lions back into something that is very much like their home. The haulouts will be sculpted just like the haulouts out there.

Now, that's also good for the scientists because they have the animals out there in a very realistic environment for observational work. So, it's a controlled environment but it's a simulation of a natural environment. We don't want the environment to influence the animal's behavior or its physiology.

RU. What are the key advantages of conducting research through the SeaLife Center?

JH. It has a full time support staff. Typically what happens is that a scientist wants to do some work and he or she has to come in and hire people, set up a laboratory, set up an office. There are specific equipment needs, laboratory needs, cold storage facilities. In our case they come in and sit down and we ask what is it you want to do? And already on the premises are people who can handle marine mammals. And in many cases the animals will be there. All the mechanics will be there.

RU. Down to secretarial services?

JH. Down to accounting, secretarial services, purchasing, transportation, whatever it is that they want to carry out there work. And it's there 24 hours a day.

Scientists usually have to deal with lots of bureaucracy. I think one of the messages we have to get out there is we have one basic rule and that is to provide the best support possible at the best

price possible.

RU. How will the scientists pay their way? Will they be charged set fees?

JH. They have to bring their own grants. The advantage is the SeaLife Center has people here who will be able to support the scientist. That takes the scientist away from the mechanics and the maintenance and the business of it and lets the scientist focus on the science.

RU. Do you envision a day when the SeaLife Center will be putting out its own grants?

JH. I envision a day when the SeaLife Center will be a place to pass grant money through, but we don't want to go through the work of processing the grants and checking out the people. I don't see the SeaLife Center as being a huge generator of funds where it would have the money itself to primarily fund research. I can see it having funds to provide matching funds. But I don't see it as being a primary funder of research, unless it is money passed through us by someone else.

RU. The SeaLife Center is projected to be the state's second largest tourist attraction. Is that correct?

JH. We intend to be second for a little while.

RU. Does that mean you're going to go for first?

JH. Why not?

RU. Is Seward ready for this?

JH. No. That's why I said it'll take a little while. There's an infrastructure there now that will bear 300,000 visitors. But there needs to be other infrastructure development. Parking has got to grow and become more sophisticated. Lodging has to grow somewhat. A number of other amenities are needed for folks to come. It depends where your market is and a lot of our market is going to be out-of-state folks. Our number one major

group is going to be what we call the rubber tire traffic from outside of Alaska. I could sit at the border point near Beaver Creek and meet most of our customers as they come through customs.

RU. Will the SeaLife Center be a tourism destination in itself or will it be another thing to do for those people going to Seward?

JH. Other than the Alamo, I don't know of any single thing that is a tourism destination in itself. Everything is always a part of a package and we will be thinking of ourselves always as part of the Alaska package.

RU. There are a lot of people driving south from Anchorage who turn right at the Sterling Highway and never see Seward. Are you hoping to change their direction?

JH. When we look at that particular market, we'll change their direction.

Alaska has its mystique and its magic. And from entrance to exit, all the way through the thing, whatever we do we have to in some way include Alaska's past and its Native people because the people are really interesting too. The relationship between the people, the land, the ocean and the creatures that live in it, I think there's sort of a magic there. I hope to capture at least a taste of it and that's one of the hardest things in the world to do.



One of the holding tanks for marine mammals is under construction at the Alaska SeaLife Center.

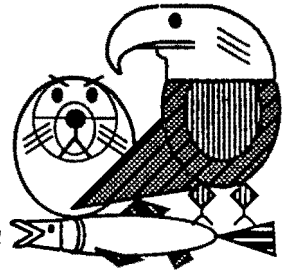
"(Researchers) are not going to be trotted out like little ponies or showdogs and go around the ring and do their little act. The reason they are there is to first of all do science. They're not there to entertain people all day."

Exxon Valdez Oil Spill Trustee Council

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MEMORANDUM

TO: Byron Morris/NOAA

FROM: Molly McCammon
Executive Director

RE: Authorization: Project 97195/Pristane Monitoring in Mussels

DATE: December 2, 1996

The purpose of this memorandum is to formally authorize work to proceed on Project 97195/Pristane Monitoring in Mussels, as described in the Detailed Project Description dated April 12, 1996.

Trustee Agencies

State of Alaska: Departments of Fish & Game, Law, and Environmental Conservation
United States: National Oceanic and Atmospheric Administration, Departments of Agriculture and Interior