



PERF Newsletter

October 2004

Environmental,
Health,
& Safety
Solutions for the
Petroleum Industry

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Next Quarterly Meeting to be Hosted by Shell in Houston, TX on October 19 and 20

Shell will be hosting the PERF Fall Meeting in Houston, Texas on October 19 and 20. Presentations will include topics such as air quality regulatory requirements and their challenges, health effects, leak detection and low NOx burners. The general meeting will be on Tuesday, October 19, followed by the Upstream and Downstream discussion groups and the Business Meeting on Wednesday, October 20. The meeting will take place at Two Shell Plaza, 10th Floor.



The Board Meeting (Board Members only) will be held on Monday, October 18th. It will start at 3pm and will be followed by the Board Dinner.

Information on the meeting, including an agenda, speakers, presentation topics, and registration details, can be found on our Web site at http://www.perf.org/index.php?act=meetings_upcoming

New Federal Statute Provides Antitrust Protections for Standards Groups

In June of this year new amendments to the National Cooperative Research and Production Act were signed into law, extending certain antitrust protections to the standards development activities of organizations involved in generating voluntary consensus standards. Organizations that plan, develop, establish, or coordinate voluntary consensus standards using procedures that incorporate the attributes of openness, balance of interests, due process, appeals process, and consensus consistent with Office of Management and Budget Circular Number A-119 as revised February 10, 1998 are eligible for these protections.

These amendments are commonly known as the Standards Development Organization Advancement Act, and filings with the appropriate federal agencies are necessary to reap the full benefits that are available.

Update on PERF Project O2-13 – Water Management Cooperative

ExxonMobil is coordinating PERF project O2-13, an information sharing forum on industry's water management practices.

The objective of the program is to exchange research, technology, and experience in the area of water usage minimization, optimization, and reuse at operating facilities and in exploration and production. Potential areas for sharing may include water reuse solutions in practice, rejected reuse solutions, case studies in the area of water reuse/minimization/optimization, produced water reclamation, wastewater recovery, or tools used to develop these solutions. Contracts have been executed by Argonne National Laboratory, Unocal, UNDEERC, ConocoPhillips, and ExxonMobil. The participants are currently preparing documents for release, and we anticipate sharing the information as soon as this is complete. Please contact Meredith Gustafsson (meredith.b.gustafsson@exxonmobil.com) for more information.



Current PERF Research Proposals

Proposals are presented at each quarterly meeting and e-mailed to all PERF representatives. The project coordinator then generates a project contract specific to the proposal and e-mails it to all representatives who have expressed an interest in the proposal. It typically takes 6 to 12 months for contracts to be signed and the project to kick-off.

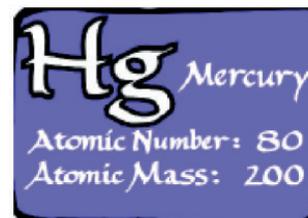
“... details of all of the projects ... since our formation in 1986 are presented on the web site.”

Proposal	Title	Sponsor
2004-06	Reducing Desalter Env. Impacts	Petro- Canada
2004-05	Understanding the effects of time and energy on the effectiveness of dispersants	ExxonMobil
2004-04	Identification of opportunities to improve/update GH estimation methods	ExxonMobil
2004-03	CO2 Capture Technology Review	BP/ConocoPhillips
2004-02	Life Cycle Analysis for Env. Decision Making	ChevronTexaco
2004-01	SRU Tail Gas and TGTU Emissions	ChevronTexaco
2003-08	Pneumatic Dispersion Boom to Separate Oil from Ice	ExxonMobil
2003-07	Dispersant for viscous oil	ExxonMobil
2003-06	Dispersant mixing - Vessel enhanced mixing for low energy environments	ExxonMobil
2003-05	Chemical Herders in Increase in Situ Burning Window of Opportunity	ExxonMobil
2003-04	Recovered Value Wastewater treatment	BP-UMIST
2003-02	Flaring cooperative Project	Shell
2003-01	Mercury Cooperative	ExxonMobil
2002-14	NAF cuttings cleaning with Supercritical Carbon Dioxide	ExxonMobil
2002-13	Water Management Cooperative	ExxonMobil
2002-09	Crude Oil Filtration	Petro-Canada
2002-08	Water reuse - Water as Resource for Irrigation	Shell
2002-06	Field experience & Best Practice in Produced Water Injection Systems	Shell

Mercury Cooperative Project 03-01

ExxonMobil is coordinating PERF project 03-01 to address the management of mercury containing crude oils and condensates. Upstream and downstream operational, environmental, analytical, and removal issues as well as other various aspects related to mercury are valid areas for contribution. Speciation in produced fluids and process streams, analytical methods, distribution in refining, and removal processes are examples of topics being offered by participants. Focus areas for additional leveraged research may also be identified. To date, project participants include ConocoPhillips, Unocal, ExxonMobil, NATCO, Marathon

Ashland, ChevronTexaco, and the University of North Dakota Energy and Environmental Research Center. Exhibit Bs have already been received; however, there is still time to join this project. The final project workshop is tentatively scheduled for late 2004. Please contact David Masciola (david.a.masciola@exxonmobil.com) for additional information.



Summer Meeting Highlights

The 65th PERF Meeting was hosted by the Energy & Environmental Research Center (EERC) July 20–22, 2004, in Grand Forks, North Dakota, and was attended by nearly 70 participants.

The board meeting was held on July 20, and technical presentations regarding the theme “Greenhouse Gases” took place July 21 and 22. Presentations covered a variety of topics including carbon trading concepts and platforms, measurement and verification, CO₂ phase behavior, capture and separation technologies, and value-added uses of CO₂, such as enhanced oil recovery. Upstream and downstream discussions, status reports, and new proposals were also covered on July 22.

Overviews of the presentations, minutes from the discussion groups, and the status reports and proposals can all be accessed on the PERF web site at www.perf.org.



You can download most of the presentations on the PERF web site at the following URL: http://www.perf.org/index.php?act=meeting_2004-07_overview

New PERF project proposals can be downloaded at http://www.perf.org/index.php?act=research_proposals

Announcement — PERF Attorney Joe Gormley

Prior to our last PERF meeting in North Dakota, Joe Gormley - PERF attorney, announced that he was opening his Law Office in Annapolis Maryland. PERF board members unanimously voted to keep Joe as PERF’s attorney. Joe has over ten years of litigation and counseling experience in competition, consumer protection, product liability and business law matters, as well as government investigation, mergers and joint ventures. He has practiced with the largest and most prominent firms of both Maryland and Washington D.C. Congratulations Joe!!

Environmental, Health, & Safety
Solutions for the Petroleum Industry

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TEAMWORK: Together we achieve the extraordinary!



PERF

We're on the web:
<http://www.perf.org/>

The Petroleum Environmental Research Forum (PERF)* is a research and development joint venture, formed to provide a stimulus to and forum for the collection, exchange, and analysis of research information relating to the development of technology for health, environment & safety, waste reduction and system security in the petroleum industry. PERF is a non-profit organization of Members which are corporations engaged in the petroleum industry that recognize the importance of a clean, healthy environment and are committed to support cooperative research and development. PERF does not itself participate in research projects but provides a forum for Members to collect, exchange, and analyze research information relating to practical and theoretical science and technology concerning the petroleum industry, and a mechanism to establish joint research projects in that field.

*The name Petroleum Environmental Research Forum and its acronym PERF are registered service marks.

PERF External Group Liaisons

PERF encourages external groups such as trade associations, national laboratories, and research institutes to join as Liaison members. PERF values the partnerships that we have with these external groups and they frequently join PERF projects and contribute valuable research.

Liaison members appoint Representatives which have the right to attend and participate in meetings of PERF and its committees but they do not have the right to vote or to serve as an officer of PERF. Liaisons are not required to pay the fee paid by Members.

American Petroleum Institute (API)
Department of Energy (USDOE)
Gas Technology Institute (GTI)
Lawrence Berkeley National Laboratory (LBNL)
Water Environmental Research Foundation (WERF)
Argonne National Laboratory (ANL)
Electric Power Research Institute (EPRI)
International Association of Oil and Gas Producers
Oak Ridge National Laboratory (ORNL)
University of Manchester Institute of Science and Technology (UMIST)

Member Companies & Representatives

Amerada Hess	Gerry Bresnick
Aramco Services Co.	Robert Finley
BP	Davis Taggart
ChevronTexaco	Sara McMillen
ConocoPhillips	Sung-I Johnson
EniTechnologie	Renzo Boni
ExxonMobil	John Wilkinson
INA-Naftaplin	Zdravko Spiric
Petrobras	Sergio Soares
PetroCanada	Bruce Kennedy
Shell	Pete Robinson
Statoil	Stale Johnsen
Total	Marine Julliard
Unocal	Todd Kirie

Associate Members & Representatives

BOC Gases Technology	Ram Ramachandran
Canadian Petroleum Products Institute (CPPI)	Adolfo Silva
Champion Technologies, Inc.	Mark Edwards
Petrozyme Technologies	Bill Mullin