Highlights of Summer Meeting in the Netherlands

Shell hosted the 59th PERF Quarterly meeting (June 17-18) in The Hague, Netherlands which attracted an international group of speakers and attendees. The agenda for the meeting along with presentations are available on our website at http://www.perf.org. There were two full days of meetings that focused on the theme of water management issues and challenges. This topic is particularly timely due to the need to respond to initiatives for zero discharge at many exploration and production sites.

The final day of the meeting included a field trip to the Port of Rotterdam to visit a number of remediation sites and to gain a better understanding of the importance of integrating environmental work into a large operating facility.

Next Quarterly Meeting in Washington D.C.,
October 9-10, 2002

The next PERF meeting will be co-hosted by API and ExxonMobil in Washington, DC on October 9 & 10, 2002. This will be an opportunity to identify synergies between API and PERF, with the theme of the meeting being to identify technical needs and opportunities which may be addressed with future projects in either organization. The agenda for the meeting will include:

- An overview of the PERF organization and a summary of PERF projects
- API Task Force Presentations concentrating on future needs and opportunities for future projects
- Health & Product Stewardship
- Air
- Waste & Remediation
- Water
- Safety & Fire Protection

In addition the traditional PERF Upstream and Downstream discussion groups will meet with API staff to discuss opportunities for collaboration and to review recent PERF project proposals.

For further information, see the PERF website or contact: Howard Feldman, API (202-682-8340; feldman@api.org) or John Wilkinson, ExxonMobil (703-846-3939; john.b.wilkinson@exxonmobil.com).

See you in D.C.
PERF is above all a forum for the collection, exchange, and analysis of research information relating to the development of technology that will foster a sustainable future for the petroleum industry. Discussions and exchanges are at the root of the PERF organization. The website is a vehicle to promote additional exchanges between scheduled PERF meetings.

The on-line discussion groups allow PERF members and visitors alike to submit their ideas and project proposals to a broad audience of industry peers. Currently there are three discussion groups: Upstream, Downstream and Human Factors. To post a new message, you need to be a registered user. Registration is easy: click on new user, complete the registration form and you’re all set to go!

Also, through the PERF website you can obtain an updated list of all PERF projects as well as brief project status reports. To view all current project proposals, click on Current Proposals from the Research Projects rollover menu. You will obtain a list of PERF projects seeking participants.

A new feature that allows you to view a list of many PERF publications has recently been added. If you happen to know of external publications/papers resulting from PERF projects that do not appear here, please contact the PERF webmaster.

Interested in catching a glimpse of previous PERF meetings? Simply go to the PERF Meeting Recap page. From there you can access the different meeting agendas and download many of the presentations.

The PERF Board of Directors is trying to make this tool as interactive as possible. Project coordinators are requested to update their status reports on-line via the site administration area! At each quarterly meeting, we use the on-line status reports as a basis for communicating on the progress of each project. If you are a project coordinator and need help updating your status reports, please contact Elisabeth Adam (Elisabeth.adam@totalfinaelf.com).

Last but not least, suggestions on how to make this website more useful to you are always welcome.
DOE/PERF Bioremediation Workshop

The Department of Energy and PERF co-hosted a Bioremediation Workshop in Houston, TX on May 30, 2002. There were 47 attendees representing 11 oil and gas companies, three regulatory agencies, four national labs, and three universities.

The objective for the workshop was to discuss the “state of the art” of bioremediation for hydrocarbon impacted soil. Presentations given by ten invited speakers addressed bioremediation as practiced by the oil industry and the US Environmental Protection Agency. Research results from Lawrence Berkeley, Pacific Northwest, and Oak Ridge National Laboratories were presented as well as those from the University of Texas. PERF and DOE are using the information from this workshop to develop PERF project 2002-02 and to determine if there are specific research needs that can be addressed by the national laboratories. One of the key topics addressed by the presenters was the subject of commercial “bug” products marketed to enhance bioremediation. A summary of the workshop will be published by DOE later in the year. The agenda for the workshop and the presentation slides can be viewed from the PERF website at http://www.perf.org/index.php?act=workshop_2002-05. For more information regarding PERF 2002-02, please contact Jill Kerr at jill.m.kerr@exxonmobil.com.

New Project Proposals in 2002

During 2002, the following projects were proposed and projects are in the planning phases:

<table>
<thead>
<tr>
<th>Proposal</th>
<th>Title</th>
<th>Coordinator</th>
<th>Status</th>
</tr>
</thead>
<tbody>
<tr>
<td>2002-09</td>
<td>Crude oil filtration</td>
<td>Petro-Canada</td>
<td>Proposal</td>
</tr>
<tr>
<td>2002-08</td>
<td>Water reuse-Water as a resource for irrigation</td>
<td>Shell</td>
<td>Proposal</td>
</tr>
<tr>
<td>2002-07</td>
<td>Remote leak detection using IMSS camera</td>
<td>BP</td>
<td>Proposal</td>
</tr>
<tr>
<td>2002-06</td>
<td>Field experience &amp; best practices in produced water injection systems</td>
<td>Shell</td>
<td>Proposal</td>
</tr>
<tr>
<td>2002-05</td>
<td>Best Management for Produced Water Treatment &amp; Disposal</td>
<td>Marathon</td>
<td>Proposal</td>
</tr>
<tr>
<td>2002-04</td>
<td>Managing Coal Bed Methane</td>
<td>ChevronTexaco</td>
<td>Withdrawn</td>
</tr>
<tr>
<td>2002-03</td>
<td>Water Soluble Organics – On platform Regeneration of GAC</td>
<td>ChevronTexaco</td>
<td>Withdrawn</td>
</tr>
<tr>
<td>2002-02</td>
<td>Bioremediation sharing project</td>
<td>ExxonMobil</td>
<td>Project</td>
</tr>
<tr>
<td>2002-01</td>
<td>Predicting crude oil mobility in pits (E&amp;P sites)</td>
<td>ChevronTexaco</td>
<td>API Project</td>
</tr>
</tbody>
</table>

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.

Note that details of all of the projects performed under the PERF umbrella since our formation in 1986 are presented on our website. Also note that specific results of projects are generally not published, as these often remain proprietary to the participating companies.
PERF Projects Open to Non-Members

PERF projects are not limited to Members of PERF. In fact, PERF’s Charter explicitly states that PERF is to provide a forum for the presentation and consideration of proposals for industry projects related to any aspect of health, environment, safety, waste reduction, and system integrity for funding by Members of the organization and non-Members alike.

Projects considered in PERF’s forum that appear likely to attract sufficient interest to move forward are announced to the industry for participation by PERF Members and non-Members alike on a nondiscriminatory basis. While projects do have set contribution requirements for participation, those requirements are negotiated between participants in each individual project, and often projects have staggered participation requirements, making it easier for smaller or governmental entities to participate.

In the event a non-Member is interested in participating in a certain project, that non-Member should contact the project’s PERF sponsor to discover whether the project’s funding needs have been filled, and the terms on which participation is available.

Member Companies & Representatives

Amerada Hess
Gerry Bresnick
BHP Research
Robert Finley
BP Amoco
Edward Pinceratto
ChevronTexaco
Davis Taggart
Conoco, Inc.
Sara McMillen
EniTechnologie
Stephen Jester
ExxonMobil
Renzo Boni
Marathon Oil
John Wilkinson
Petrobras
Jenny Yang
PetroCanada
Sergio Soares
Phillips Petroleum Company
Bruce Kennedy
Shell International E&P
Sung-I Johnson
Statoil
Zara Khatib
TotalFinaElf
Per Gerhard Grini
Unocal
Elisabeth Adam

Associate Members & Representatives

BOC Gases Technology
Ram Ramachandran
Canadian Petroleum Products
Adolfo Silva
Institute (CPPI)
Bill Mullin
Petrozyme Technologies