13th Annual Gulf of Mexico Deepwater Technical Symposium

Opening THE LIMITS

August 27th and 28th, 2009

ENROLL TODAY!
www.deepwaternola.org

Deepwater Gulf of Mexico case studies and key technology sessions involving:

- Drilling
- Completions
- Production Systems
- Reservoir / Economics
- Geoscience
- HS&E / Regulatory
- Emerging Technologies
- Alternate Energy
- Management Panel Discussion and Exhibition Hall
- Student Poster Session

The Hilton Riverside Hotel
• New Orleans •

PHOTO COURTESY NASA
SESSION SCHEDULE

Emerging Technologies
CHAIR Angie Gobert, MMS
CO-CHAIR Leah Todd, Shell
The technical limits of the oil and gas industry evolve as we continue Opening THE LIMITS. As our industry forges ahead into areas with ever-increasing levels of difficulty and as the cost of deepwater projects continues to increase, industry leaders develop creative approaches to meet today’s technological and financial hurdles. Hostile geologic environments, deep wells, ultra-deep water depths, loop currents, and tropical storms combine to provide some of the most challenging conditions faced anywhere in the world. Presentations in this session illustrate new seismic imaging and geological concepts along with novel and cost-effective engineering solutions developed to meet these conditions and challenges of Opening THE LIMITS.

Geoscience
CHAIR Bob Meltz, Chevron
CO-CHAIR Richard Mongan, Chevron
The geoscience community continues to Open the Limits in the deepwater. This year’s presentations span the range of topics from plays types of the U.S. Atlantic margin to a new workflow for facies and pay classification from deepwater logs. We also include an overview of the recently on-line Blind Faith field, comparing the play development of the Deepwater Gulf of Mexico with the Niger Delta, phased subsalt developments, and the importance of mechanical earth models in deepwater drilling.

Alternative Energy
CHAIR Art Johnson, Hydrate Energy
CO-CHAIR Angie Gobert, MMS
The extensive deepwater infrastructure of the Gulf of Mexico offers intriguing new energy opportunities beyond conventional oil and gas development. Among the concepts under investigation are wind power, gas hydrate, and CO2 sequestration.

HS&E
CHAIR Richard Davis, BP
CO-CHAIR Sandi Fury, Chevron
Regulatory changes are on the horizon and will undoubtedly have huge impacts on the Oil and Gas industry. These regulatory changes stem in from both industry innovation and congressional mandates. This session covers two of the most relevant issues which will impact offshore Oil and Gas operations. BP will present future possibilities utilizing digital interpretation of BOP testing. The presentation will include digital software development, regulatory process, how it works, implementation, and engagement with regulators. ERM will present climate change policy and expectations for the 111th Congress, how these changes will impact our industry, and what companies can do to prepare for these changes.

Drilling
CHAIR Dave Algu, Shell
CO-CHAIR Ben Kotara, Woodside
We live in a Global village that is fueled by the oil and gas we produce. Today, our village is in poor economic health but is still consuming our product and when it recovers, it will consume hydrocarbon products at record rates. To meet the Global needs, we have to search for oil in places that are beyond our technological capabilities. But we are drillers, and we love to take on challenges that push us to our mental limits to find solutions to extraordinary problems. These presentations look at methods to manage emerging drilling problems and tools that will help us “Open The Limits” to new source for oil and gas.
Reservoir & Economics

**Chair** Paul Morphy, Shell  
**Co-Chair** Peter J. Clifford, BP

This session addresses some of the current reservoir engineering and economic challenges in Deepwater. Day 1 starts with the actual initial performance of the giant Thunder Horse field. We then move to a discussion of the new technology that was required to make the forthcoming Perdido Development commercial. The third paper is a presentation on current economic screening of future opportunities at the well and play level. Finally, we have a presentation on quantifying the impact of surveillance on the performance of a mature field, and what may be lost in subsea developments where surveillance is more limited.

Day two is focused on improved oil recovery (IOR) techniques – particularly waterfloods, which are becoming increasingly important in Deepwater. The first is a progress report from “The Research Partnership to Secure Energy for America” on Deepwater IOR projects overcoming economic hurdles. The second reviews historical reservoir performance under waterflood in a deepwater turbidite field, and the final presentation examines the economic challenges of maintaining injection well integrity long-term.

**Production Systems**

**Chair** Allen Wiley, Multi-Chem  
**Co-Chair** Casey Blake, Shell

Our future in deepwater relies heavily on the diligent efforts of our professionals to provide us with production systems designed to enhance production and deter production downtime. In deepwater Gulf of Mexico, oil and gas recovery technology has met the demand of increased through-put of production via the development of flow assurance for many different production facilities. The introduction of low dosage hydrate inhibitors reduces the demand for large methanol delivery systems while deepwater acid stimulation methods increase production. Artificial lift systems are now engineered for deepwater operations and they can sustain production rates at optimum levels. Advanced leak detection has potential to sustain the integrity of the complex pipeline delivery systems that transport deepwater production to a worldwide market.

**Completions**

**Chair** William Franke, Expert E&P  
**Co-Chair** Marshall N. Smith, Halliburton

Deepwater Completions & Interventions continue to see greater focus from operators in today’s market. Project economics can be significantly impacted by modifying completion techniques and adopting new completion technologies. New developments focuses on reducing completion time while mature assets are being forced to attempt more technically challenging completions to increase overall recovery or add reserves while minimizing future interventions. This session will present several solutions to the challenges noted above in the way of new technologies and recently developed operational techniques.

**Student Papers**

**Chair** Emmit Lockart, ENI Petroleum
## SYMPOSIUM REGISTRATION

### REGISTRATION FEE INCLUDES:
- Access to Technical Sessions, Management Panel Sessions and Student Poster Sessions
- Invitation to Keynote Speaker Sessions and lunch on August 27 and 28
- Invitation to evening social - August 27
- Entry to exhibit halls

<table>
<thead>
<tr>
<th>FEES</th>
<th>ONLINE early registration by Aug 1, 2009</th>
<th>After Aug 1, 2009 &amp; Onsite registration</th>
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<tbody>
<tr>
<td>SPE/AADE/NOGS Members</td>
<td>USD $200</td>
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Mastercard, VISA, American Express and Discover accepted


Attendance at the Deepwater Symposium will be limited. Please register early.

For additional information, please contact General Chairperson, Rakesh Kumar (504) 728-4902 rakesh.kumar@shell.com

### REGISTRATION open

**DAY 1:** 6:30 AM - 3:00 PM
**DAY 2:** 6:30 AM to 10:00 AM

### EXHIBITION HALL OPEN

**DAY 1:** 7:00 AM to 4:30 PM
**DAY 2:** 7:00 AM to 1:30 PM

### Why Exhibit in 2010?
As a company interested in the latest challenges in the Gulf of Mexico, you can’t afford to miss this event. Exhibiting will provide opportunities to make instrumental connections that hold the key to your success in this growing market.

### Sign-up to exhibit next year.
For more details about sponsorships & exhibits, contact Jared Guthrie, j.guthrie@shell.com (504) 728-6077

### ACCOMMODATIONS
Hilton Riverside Hotel New Orleans
2 Poydras Street
New Orleans, LA 70140
(504) 561-0500

REFERENCE CODE: DTS

FOR ONLINE RESERVATIONS: www.deepwaternola.org

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<th>FRIDAY AUG 28</th>
<th>Session 1</th>
<th>Session 2</th>
<th>Session 3</th>
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<tr>
<td><strong>EMERGING TECHNOLOGIES</strong></td>
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<tr>
<td>8:00</td>
<td>Fiber-Optic Monitoring in Deepwater GOM Wells: Surveillance Applications and Enablers</td>
<td>Deepwater IOR: Can Technology Overcome Economics</td>
<td>Single Trip Multi-Zone Frac Pack Tool - Enabling Technology for GOM Deepwater Field</td>
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<tr>
<td>8:30</td>
<td>Artificial Lift Methods and Methodology for Deepwater Reservoir Production in GOM</td>
<td>Water Injection at Horn Mountain: Progressing the Depletion Plan</td>
<td>Extending the Reactive Perforating Revolution to Big Hole Charges for Sand Control Applications</td>
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<td>9:00</td>
<td>TBD</td>
<td>A Gulf of Mexico Deepwater Waterflood Case Study: Water Injector Performance, Problems and Possible Solutions</td>
<td>Challenges Experienced Performing a Thru-Tubing Gravel Pack in a Highly Overbalanced Subsea Gas Well</td>
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<td>9:30</td>
<td>Break</td>
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<td><strong>PRODUCTION SYSTEMS</strong></td>
<td><strong>GEO SCIENCE</strong></td>
<td><strong>COMPLETION</strong></td>
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<td>9:45</td>
<td>Continuous Use of Anti-Agglomerate LDHI in Oil- and Gas- Dominated GOM Deepwater Tiebacks</td>
<td>Blind Faith Field: A Geologic and Development Overview</td>
<td>Planning and Execution for highly overbalanced Completions from a Floating Rig</td>
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<td>10:15</td>
<td>Bullhead Acid Stimulation System Development Replaces Riser-based Intervention for Deepwater Subsea Wells and Systems</td>
<td>The Role of Phased Development Planning in the Maturation of Sub-Salt Opportunities</td>
<td>Controlling Formation Fines with Nanoparticles</td>
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<td>10:45</td>
<td>Mechanistic Leak Detection Modeling in Subsea Pipelines</td>
<td>Mitigating Reservoir Compaction and Casing Deformation in Deepwater Turbidites Using a 3D Mechanical Earth Model</td>
<td>Deepwater Intelligent Completions</td>
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<td><strong>Lunch</strong></td>
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<td>12:30</td>
<td>Keynote - Chad Deaton</td>
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<td>1:30</td>
<td>MANAGEMENT PANEL SESSION - Opening the GOM Deepwater Limits - What will be required in the current challenging and changing business environment</td>
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<td>3:30 - 4:00</td>
<td>PASSPORT AWARDS and CLOSING REMARKS</td>
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**Friday FeeS**

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Special rate accommodations available at the Hilton Riverside Hotel downtown New Orleans

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