Shale Development and Hydraulic Fracturing
Capturing Unconventional Opportunities

A NEW EVENT FOR INDUSTRY PROFESSIONALS

In its debut year, ASME ENERGY FORUM LIVE – OIL & GAS will focus on shale development and hydraulic fracturing for recovering natural gas and oil. This is a high-level, three-day conference program that highlights critical challenges and opportunities associated with shale exploration, development and production.

KEYNOTE SPEAKER

Torstein Hole, Senior Vice President of U.S. Onshore, Statoil Development and Production N.A.

Torstein Hole has been with Statoil since 1985 and has held a range of operational and development roles in the upstream organization. He recently served as Senior Vice President for Finance, Strategy and Business Development in Exploration and Production and, prior to moving to Houston in October 2011, as Senior Vice President of Operations South on the Norwegian continental shelf. Statoil is an international energy company, headquartered in Stavanger, Norway, with 23,000 employees and operations in 35 countries. It is listed on the New York and Oslo stock exchanges.

WHO SHOULD ATTEND

- A C-level or senior executive making “go/no go” decisions... profit from peer-level insights on acquisitions, project planning, resource allocation, operations, etc.
- A planner/strategist, compliance officer, or government-relations specialist... meet thought-leaders to gain a clearer understanding of the market and regulatory framework ahead, both domestic and global.
- An engineer, designer, or technician... witness cutting-edge technology and application demonstrations of mechanical systems through panel discussions, workshops, seminars, and case studies from industry and R&D progressives.
- In marketing, sales, or public relations... learn ways to deal effectively with stakeholders and critical constituents by participating in outlook and forecast sessions, plus best-practice exchanges with those on the front lines.
- An entrepreneur, innovator

LIMITED SPONSORSHIPS AND TABLE-TOP EXHIBITION AVAILABLE. Contact Greg Valero, ASME, at 1-212-591-8356 or ValeroG@asme.org

PTTC HALF-DAY WORKSHOPS

ROCK MECHANICS FOR FRAC TURING APPLICATIONS
Instructor: Neal Nagel, PhD / Date: March 17, 2014, 8 a.m.–12 p.m.

This course focuses on the critical geomechanical aspects of formation characterization and completion optimization for shale and other unconventional developments. It is well-known that geomechanics plays a critical role in the understanding and development of many unconventional reservoirs — chiefly due to the complicated and variable impact of natural fractures on well stimulation and production.

WELL BORE INTEGRITY THROUGHOUT ITS LIFE CYCLE
Instructor: Talib Syed, PE / Date: March 17, 2014, 8 a.m.–12 p.m.

This course focuses on two critical components of well integrity — casing design and cementing. Key aspects of casing design are discussed, including casing design, cementing practices and evaluation including current cement bond logging techniques — ultra sonic imaging tool (USIT), circumferential acoustic scanning tool (CAST) and segmented bond tool (SBT) in addition to the conventional CBL/VDL techniques. Well integrity considerations for hydraulically fractured wells are covered. Attendees gain a clear understanding of these two critical well integrity components.

METHODOLOGY AND APPROACHES FOR DRILLING, EVALUATION, FRACTURING, AND COMPLETIONS IN UNCONVENTIONAL SHALE RESOURCES
Instructors: Jack Wiener and Donald Kundert / Date: March 17, 2014, 8 a.m.–12 p.m.

This course covers methodology and approaches for Unconventional Shale reservoir exploitation for drilling, formation evaluation, fracturing and completions considerations. Participants learn the methodology and approach for specific shale. They also explore how each regional shale has mineralogical, depositional, and maturity considerations that require considerations for successful exploitation.

PETROLEUM GEOLOGY FOR THE NON-GEOLOGIST
Instructor: Janice Gillespie, PhD / Date: March 17, 2014, 8 a.m.–12 p.m.

This course is designed to help non-geologists understand just what all these geologists are talking about! You learn why oil is found in some areas and not in others, what kinds of tools geologists use to assess the petroleum potential and petroleum reserves in an area and what factors they consider when deciding where to drill. During the class, you work as part of a team of “geologists” that will come up with several “prospects” for drilling.
and Optimization production shares greater similarities with mining than conventional reservoir engineering. But we must apply conventional concepts. The winners in the future of shale development will be companies that focus on improved recoveries and stimulation coverage.

- Torstein Hole, Senior Vice President, Statoil
- Greg Andrews, Vice President, Operational Excellence, Upstream Unconventionals, Shell Energy Resources Company
- Fersheed Mody, Manager, Global Research and Technology, Apache

2:30 p.m.—4:00 p.m.

Session 1—Taking Advantage of the Global Shale Revolution Shale development has been rapid, impactful, and a game-changer within North America. But the long-term prospects and global potential remain uncertain. Will shale development trigger the dawn of a global gas market? How unique are conditions within North America? Will the North American model be replicated elsewhere, or will North America take advantage of its position and establish a global export business?

- David Blackmon, Managing Director, Strategic Communications, FTI Consulting
- Douglas Stephens, President, Pressure Pumping, Baker Hughes
- Kent Perry, Vice President, Onshore Programs, RPSEA

4:15 p.m.—5:30 p.m.

Session 2—Enabling Technology: Hydraulic Fracturing The marriage of long horizontal wells with multi-stage hydraulic fracturing triggered the shale gas revolution—and along with it a new economic landscape. This session will investigate ways to maximize opportunities in this new economy.

- Rustom Mody, Vice President, Technology, Baker Hughes
- Chad Joost, Senior Vice President, Sales and Marketing, Stewart and Stevenson
- Mohamed Soliman, Professor, Department of Petroleum Engineering, Texas Tech University

TUESDAY, MARCH 18, 2014

8:30 a.m.—10:00 a.m.

Session 3—Technological Excellence for Optimal Effectiveness and Efficiency When the shale revolution began, the industry brought conventional fracturing equipment and surface processes to deliver the desired solutions downhole. As the techniques have matured, so has the equipment, with new equipment designs emerging that can deliver the exceptionally different solutions in an integrated and efficient manner. This session will challenge some of the fundamentals (from conventional) and discuss new and innovative approaches.

- Jeff Meisenhelder, Vice President, Unconventional Resources, Schlumberger
- Keith Peach, Executive Vice President, Engineering, Weir Oil and Gas
- Jeremy Pitts, Vice President, Product Development, OSComp

10:15 a.m.—11:45 a.m.

Session 4—Technologies for Completion and Fracturing—Efficiency, Economics, and Optimization Completion and fracturing efficiency is the key driver, as shale production shares greater similarities with mining than conventional reservoir engineering. But we must misapply conventional concepts. The winners in the future of shale development will be companies that focus on improved recoveries and stimulation coverage.

- Matthew Crump, Product Line Manager for Lower Completions, Weatherford International
- Rich Haut, Director of Energy Production, Houston Advanced Research Center
- Tim Stephens, Director of Research and Development, Saint-Gobain Proppants

3:00 p.m.—4:30 p.m.

Session 5—Production Enhancement: Artificial Lift and Re-Fracturing The extensive shift to horizontal wells that has been driven by the shale revolution has resulted in redesign of conventional artificial lift approaches. The efficiency of such systems is strongly linked to horizontal well design. This session investigates the application of systems in this new environment and also the major potential for additional recovery through re-fracturing of by-passed pay in the thousands of wells already drilled.

- John Bearden, Director, Research and Development, Baker Hughes
- David Rowatt, Research Director, Mechanical and Materials Sciences, Schlumberger
- Peter Lawson, Director, Technology, Baker Hughes

WEDNESDAY, MARCH 19, 2014

8:30 a.m.—10:00 a.m.

Session 6—Technologies for Reducing Environmental Impacts investigates the latest innovations in drilling and completion approaches in North America that impact environmental aspects. It covers the full-cycle hydrocarbon footprint, fracturing fluid chemistry, efficient use of technology for power generation, and technologies that are likely to endure as legislation related to emissions is enacted.

- Satya Gupta, Global Business Development Director, Production Enhancement Technology, Baker Hughes
- Jim Venditto, Vice President, Technical Services, Trican Well Service
- Jeremy Dockter, Managing Director, Expansion Energy, LLC

10:15 a.m.—11:45 a.m.

Session 7—Opportunities, Strategies, and Economics for Entering the Shale Play Market explores management, resource allocation, and economics of redeployment of assets following the evolution of market opportunities.

- Martin Rylance, Engineering Manager and Senior Advisor, Fracturing, BP
- Melissa Stark, Managing Director, Accenture
- Peter Foster, Senior Partner, Qittitut Consulting, LLC

1:15 p.m.—2:45 p.m.

Session 8—Water Management in Shale Play Water management is a fundamental part of unconventional shale development, and the challenge for the oil and gas industry is to demonstrate that it is far less consumptive than existing alternative power generation schemes. This session explores ways to showcase how the oil and gas industry makes efficient use of water resources.

- Doreen Chin, Surface Engineering Advisor, Upstream Unconventionals, Shell
- John Felmy, Chief Economist, API
- Robert Balch, Section Head/Research Scientist, Petroleum Recovery Research Center, New Mexico Institute of Mining and Technology

3:00 p.m.—4:30 p.m.

Session 9—Case Studies Unconventional shale development has been driven by macroscopic statistical trends. One approach to generating maximum value has been analysis and publication of case histories within trends and basins. This session focuses on mining the large pool of valuable information available from operators, service providers, GPS, and FracFocus.

- Sam French, Senior Reservoir Engineer, BP
- Randy La Follette, Director, Applied Reservoir Technology, Baker Hughes
- Dan Themig, CEO, Packers Plus Energy Services

4:45 p.m.—5:30 p.m.

Panel—Environmentally Sustainable & Competitive Solutions Unlike conventional oil and gas, shale development can have a visible and measurable impact on local communities, infrastructure, and resources. It is therefore essential that, as an industry, it cultivates resources in partnership with state, county, and local communities.

- Rich Haut, Director of Energy Production, Houston Advanced Research Center
- Darrell Pepper, Professor and Director, NCACM, University of Nevada Las Vegas
- Phil Grossweiler, Director, Corporate Outreach, MHES
- Mark Zoback, Professor of Geophysics, Stanford University

Get more information and register online at go.asme.org/energyforumlive
FORUM REGISTRATION

FEES

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General Note: All conference attendees will receive all program materials, which speakers provide to ASME. Materials will be made available online.

REGISTRATION & CANCELLATION POLICY

General Conference Policy
- The non-member fees include a one-year membership to ASME.

Cancellation and Substitution Policy
- Must be made in writing to registration company. • Cancellation deadline is March 3, 2014. • Cancellation submitted on time will get a refund of the registration rate less a $100 administration fee. • Cancellation submitted late will not be entitled to a refund. • Substitutions are permitted with written notice prior to the conference start date.

TRAVEL INFORMATION

Local airport is San Diego International (www.san.org).

OMNI SAN DIEGO HOTEL
675 L Street
San Diego, CA 92101
Telephone 619-231-6664
Fax: 619-231-8060

Room Rates
Single / Double $185/night
*Room rates are subject state and local taxes (currently 12.565%)

Reservation cutoff date: February 14, 2014
To reserve your room call 1-800-THE-OMNI or 1-619-231-6664

HOTEL OVERVIEW
Located in the heart of the historic Gaslamp Quarter, across from the San Diego Convention Center, the Omni San Diego Hotel is the city’s premier meeting hotel. Not only will you experience contemporary accommodations that feature bay, city, or ballpark views, we also feature outstanding meeting facilities equipped with state-of-the-art technology. This 511-room, 21-story luxury hotel is connected via skybridge to Petco Park, home of the San Diego Padres, and just minutes from the city’s top attractions. Venture a few steps out the front doors and experience the excitement of downtown’s Gaslamp Quarter with over 80 restaurants, boutiques, and nightclubs.

Reserve Your Room Online at

Visit www.omnihotels.com/FindAHotel/SanDiego.aspx

VENUE

The conference will be held at the San Diego Convention Center directly across from the Omni San Diego Hotel.

Register online at go.asme.org/energyforumlive