



Enhancing HSE Performance for Drilling Operations

14-15 August 2018 | Anadarko Tower | The Woodlands, TX

In today's environment, it's more important than ever to design and conduct drilling operations in a manner that protects our workforce, the community, and the environment. In this workshop experts will present and attendees will engage to better understand and enhance the best HSE practices for drilling operations.

Topics include: how to best conduct site assessments, obtain permits, design and maintain equipment, and improve workforce safety. In addition, experts will explain how to best engage with communities and manage the ever-evolving regulatory framework.

Sessions will include presentations and panels from experts with extended Q&A opportunities, in addition to breakout sessions for focused discussion.

The participants will include drilling engineers and staff, drilling contractors, environmental experts, health and safety experts, and other industry professionals. Join us and learn more about contractor safety programs, how human factors drive safety, the role of process safety, and managing hazards related to drilling operations.

General Information

Accessibility

Our events and functions are accessible to all attendees with wheelchairs. If you require special arrangements, please contact our staff at the registration desk.

Alcohol Policy

SPE recognizes the legitimate serving of alcoholic beverages in the process of conducting business and social activities. We also recognize that the use and consumption of alcohol carries with it the requirement for all attendees to consume those beverages responsibly.

Commercialism

In remaining consistent with workshop objectives and SPE guidelines, commercialism in presentations will not be permitted. Company logos should be used only to indicate the affiliation of the presenter(s).

Continuing Education Units

Attendees will receive 1.6 CEUs. One CEU equals 10 contact hours of participation. CEUs will be awarded through SPE Professional Development for participation and completion of an SPE workshop. A permanent record of a participant's involvement and awarding of CEUs will be maintained by SPE.

Documentation

Following the workshop, a URL containing released copies of the workshop presentations will be available to all attendees.

Electronic Devices

As a courtesy to the speakers and your fellow registrants, please turn off all electronic devices during presentations.

Name Badges

Please wear your badge at all times. It is a courtesy to your fellow registrants, speakers, and sponsors.

Photography and Recording Policy

SPE reserves the exclusive rights to all video/audio recording or reproductions of the workshop.

Unauthorized video/audio recording is expressly prohibited in the session room(s) or poster area, whether by video, still or digital camera, mobile phone, or any other means or form of reproduction.

Any person attending may be photographed or videotaped, and by your attendance, you give permission to use your image in possible future marketing publications including print, online, and video.

Workshop Format

Workshops maximize the exchange of ideas among attendees and presenters through brief technical presentations followed by extended Q&A periods. Focused topics attract an informed audience eager to discuss issues critical to advancing both technology and best practices.

Many of the presentations are in the form of case studies, highlighting engineering achievements and lessons learned. In order to stimulate frank discussion, no proceedings are published and members of the press are not invited to attend.

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Who We Are

SPE is the largest individual member organization serving managers, engineers, scientists and other professionals worldwide in the upstream segment of the oil and gas industry.



Society of Petroleum Engineers

Tuesday, 14 August 2018

0700-0800

Registration, Check-in and Breakfast

0800-0815

Chairperson's Welcome

0815-0945

Session 1: Efficient Tools and Applications for HSE Data Management

Session Chairs: Jessica Rogers & Gretchen Kohler

This session will explore novel and innovative methods for data acquisition and management, including unmanned aircraft, automation of field to analysis data pipelines, machine learning applied to real-time monitoring and adaptive planning, and cloud computing. Speakers will address applications of these tools for HSE planning and compliance, and lead a discussion on challenges associated with these emerging tools, such as data security and regulatory applications.

- **Presentation 1: Open Source Tools for Environmental Data Management and Reporting**
Eric Daniels, S.S. Papadopolus & Associates
- **Presentation 2: Next Generation E&P Using Drones**
Wayne Rodieck, Anadarko Petroleum
Landon Phillips, DataWing Global
- **Presentation 3: Cloud Enabled Technologies; A Paradigm Shift for the Oil & Gas Industry**
Arno van den Haak, Amazon Web Services

0945-1045

Session 2: Assessing Contractor Safety Programs

Session Chairs: Ajay Shah & Ian Sealy

Oil and gas continues to become a more collaborative, partnership-driven business that relies on multiple contracted companies to ensure safe and efficient drilling. This has introduced new challenges and opportunities in our industry, including how to accurately and efficiently assess another company's safety programs. This panel session will explore current issues, opportunities, and solutions in contractor safety program assessment, including issues in contractor qualification and pre-qualification processes, in interfacing various safety programs, and in safety program assurance.

- **Presentation 1**
Gaynor Shirreffs, Chevron
- **Presentation 2**
Ian Ferguson, Shell E&P
- **Presentation 3**
Marcos Amud, Schlumberger

1045-1115

Coffee Break

1115-1215

Session 3: Community and Social Impacts of Drilling

Session Chair: Rhett Winter

Oil and gas is one of the most heavily scrutinized industries in the world today. With such an intense spotlight, it's very important to be able to highlight all the benefits and welfare it affords to the general public. This session will both inform and elaborate on all the communal aspects and advantages of the drilling process.

- **Presentation 1: Drilling Matters: Spread the Word**
Mike Killalea, International Association of Drilling Contractors

1215-1330

Lunch

1330-1500

Session 4: HSE Considerations in Drilling Equipment Design and Selection

Session Chair: Joe White

Planning is critical when designing a well to ensure that the end result is an efficient, safe well capable of meeting production needs. This session will explore best available and safest technologies and practices used in balancing economic, engineering, and health, safety, and environmental factors for onshore and offshore drilling equipment selection that result in a safe, minimum cost, and usable well.

- **Presentation 1: HSE Considerations in HPHT Equipment Design**
Quincy Hodge, Frontline Group

1500-1530

Coffee Break

1530-1700

Session 5: Contingency Planning

Session Chairs: Matt Novia & Leslie Finnegan

Unexpected events with the potential to cause catastrophic HSE consequences pose a perennial risk to drilling operations, and contingency planning plays a critical role in managing this risk from prevention to mitigation. This session focuses on industry leading approaches to enhance operational readiness from detection to response, and seeks to generate useful insights from different industry perspectives.

- **Presentation 1: Threat Response Drills for Operational Readiness and Crew Capability**
Terrance Sookdeo, Baker Hughes, a GE company
- **Presentation 2: Mitigating Environmental Impact Through Timely Subsea Intervention**
Andy Cuthbert, Halliburton

1700-1830

Networking Reception

Landry's Seafood House

Wednesday, 15 August 2018

0700-0800

Continental Breakfast

0800-0815

Chairperson's Day 2 Kickoff

0815-1045

Session 6: Focused Breakouts: Human, Cultural, and Process Factors for Safer Drilling

Session Chair: Ajay Shah

This session will discuss, debate, and learn about the human, cultural, and process aspects of safe drilling with three breakouts. These breakouts are designed to be smaller, more focused sessions that encourage and inspire deeper conversations about the selected topics.

Human Factors in Drilling will examine the role human factors play in drilling, including what they are, how they affect both safety and efficiency, and how you can better incorporate them into the way you operate.

Process Safety in Drilling continues to be an area of focus for the drilling industry. We will discuss the different definitions of process safety, where the issues currently are, and what can be done to "move the needle" in process safety.

Role of the Workplace Culture on Safety will discuss the role the work culture has on safety, including how it affects and is affected by behaviors, team dynamics, work systems, work processes, and work environment.

- **Presentation 1: Human Factors in Drilling**
Scott Weaver, ConocoPhillips
- **Presentation 2: Process Safety in Drilling**
Matt Zerafa, Riskbytes
- **Presentation 3: Role of the Workplace Culture on Safety**
John Karish, GtZ Consulting

0945-1015

Coffee Break

1045-1145

Session 7: Rig Up/Rig Down (RU/RD) Safety Planning

Session Chair: Rhett Winter

There are numerous data collection agencies both within and outside of our industry that place rigging up, rigging down and rig moving and simultaneous operations (SIMOPs) near the top of the list for Recordable Incidents. When performing these type of high potential operations, it's critical to have a good safety culture. The subject matter experts will explain the importance of implementing a solid safety plan prior to execution.

- **Presentation 1: Utilizing Lean Solutions to Gear Towards Safety**
Thad Dunham, Flat Time Reduction
- **Presentation 2: Safe Rig Moves Happen on Both Sides of the Cattleguard**
Cody Ashley, Latshaw Drilling

1145-1300

Lunch

1300-1430

Session 8: Managing Hazards

Session Chairs: Trey Shaffer & John Karish

This session will explore the concept of identifying and effectively managing hazards in the drilling environment with representatives of a major operator, service provider, drilling contractor and risk management consultancy. The panel will utilize a novel approach to present material and fully engage the audience.

- **Presentation 1**
Charles Schalkwyk, Environmental Resources Management
- **Presentation 2**
Shayne Dustin, Shell
- **Presentation 3**
Micah Backlund, Helmerich & Payne
- **Presentation 4**
Shawn Curry, Halliburton

1430-1500

Coffee Break

1500-1545

Session 8: Workshop Wrap Up

We will close the workshop with an opportunity to reflect on what we have heard and learned. We will also discuss what topics were not covered and which may be suitable for future workshops.

Notes:

Share Your Feedback

After the workshop, complete a short survey to share your thoughts:

www.spe.org/go/SPEawoo18.

Have an idea for a new workshop or forum? Let us know about it by completing this short online form:

<http://go.spe.org/workshopform>