SPE International Conference and Exhibition on
Health, Safety, Security, Environment, and Social Responsibility
SUSTAINING OUR FUTURE THROUGH INNOVATION AND COLLABORATION
11–13 April 2016 / Stavanger Forum, Stavanger, Norway / www.spe.org/events/hse

CONFERENCE PROGRAMME & EXHIBITION GUIDE
Protecting people, assets, and the environment is all a part of our purpose: enabling safe affordable energy, improving people’s lives.

A Perfect HSE Day means no injuries. No harm to the environment. No motor vehicle accidents. And it’s the way we do business: Oil and gas services rendered through the Perfect HSE Day™ platform.

Visit BakerHughes.com/TakeCareofEachOther to see how we’re keeping people and the world around us safe—the Baker Hughes way.

Dear Colleague:

On behalf of the Society of Petroleum Engineers (SPE) and the Conference Programme Committee, we would like to thank all contributors who submitted paper proposals for the SPE International Conference and Exhibition on Health, Safety, Security, Environment, and Social Responsibility, which takes place 11–13 April 2016, in Stavanger, Norway.

This edition of the oil and gas industry’s premier HSE event celebrates its 25th year. SPE is renowned for bringing together experts from all over the world to share new ideas, process improvements, technological advancements, and innovative applications to enhance HSE performance. It also provides a neutral forum where a wide range of perspectives from a variety of stakeholders can be explored. Themed ‘Sustaining Our Future through Innovation and Collaboration,’ this biennial conference welcomes to Stavanger health, safety, security, environment, and social responsibility leaders and professionals working in and beyond the oil and gas sector. Our theme reflects the opportunity we all have to collaborate and contribute to our global success. It also captures the global imperative in today’s climate to maximise our HSE programmes in order to achieve the objectives of our shareholders and stakeholders. Our goal is to reach beyond the industry by introducing presentations, special topical sessions, and networking opportunities unavailable anywhere else. Our technical programme will reflect the diverse perspectives and concerns of our attendees.

The conference programme includes a mixture of plenary sessions with invited keynote speakers and technical and panel sessions—both oral and Knowledge Sharing ePosters—to examine recent experiences within the conference theme. The conference provides an excellent opportunity for professionals to share experiences with colleagues and build fruitful relationships with stakeholders. Your active participation will ensure a successful conference. Please give others the chance to learn from your experiences, ideas, and best practices.

On behalf of the Programme Committee, we would like to encourage you to help us make this a memorable conference.

Trey Shaffer, Øystein Arvid Håland and Steve Kropla
2016 SPE International HSE Programme Committee Chairs
About SPE

The Society of Petroleum Engineers (SPE) is a not-for-profit professional association whose members are engaged in energy resources development and production. SPE serves more than 143,000 members in 137 countries worldwide. SPE is a key resource for technical knowledge related to the oil and gas exploration and production industry and provides services through its publications, events, training courses, and online resources at www.spe.org.

Income from this event will be invested back into SPE to support many other society programmes. When you attend an SPE event, you help provide even more opportunities for industry professionals to enhance their technical and professional competence. Scholarships, Certification, the Distinguished Lecturer Programme, and SPE’s Energy Education Programme, Energy4Me, are just a few examples of programmes that are supported by SPE.

Safety Isn’t Something We Practice Occasionally

It’s something we live moment-to-moment, day after day.

At Halliburton, getting results for our customers is second to keeping everyone safe and healthy. That’s why every Halliburton meeting around the world begins with a safety moment. It’s why every Halliburton employee is required to learn a set of safety-oriented Life Rules, practice them, and make sure they become second nature. It’s why we create and publish HSE Safety Moments—not just for ourselves, but also for our customers and the industry. Our goal is, and will always be, to keep people and the environments in which they work, safe and healthy.

halliburton.com/HSE
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While on your smartphone, point your mobile browser to m.core-apps.com/hse2016 to be directed to the proper download version for your device.

Platform Compatibility: Android v4.x+ and iOS v7.x+

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With the exploration and production as its core business, ENGI E&P ensures the energy needs of today, while preparing for those of tomorrow.

ENGI E&P’s portfolio includes 343 exploration and/or production licences in 13 countries throughout Europe, North Africa, Asia-Pacific and Latin America. Thanks to the skills of almost 1,900 employees, ENGI E&P produced 591 million barrels of oil equivalent (Mboe) in 2015 and hold 699.2 Mboe in 2P reserves at the end of 2015.

ENGI E&P is committed to the responsible development of its exploration-production activities. Our goal is to conduct our business activities with no harm to people, no damage to the environment and in respect of the communities in which we live and work.

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**Schedule—Quick View** *(as of 21 March 2016)*

**Registration**

**Located in Exhibition Hall E**

- Sunday 10 April ... 1400–1900
- Monday 11 April ... 0700–1900
- Tuesday 12 April ... 0700–1730
- Wednesday 13 April ... 0700–1500

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**Author/Speaker Check-In**

**Located in IMI 1 - 3**

- Sunday 10 April ... 1500–1800
- Monday 11 April ... 0700–1730
- Tuesday 12 April ... 0700–1800
- Wednesday 13 April ... 0700–1600

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**Plenary Sessions**

**Located in Stavanger Forum main conference centre**

- Monday 11 April ... 0900–1030
- Tuesday 12 April ... 0900–1030
- Wednesday 13 April ... 0830–1000

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**Panels and Technical Sessions**

**Located in Stavanger Forum main conference centre**

- Monday 11 April ... 1400–1550
- Tuesday 12 April ... 1100–1230
- Wednesday 13 April ... 1050–1200

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**Knowledge Sharing ePosters**

**Located in Exhibition Hall E**

- Monday 11 April ... 1030–1100
- Tuesday 12 April ... 1030–1100
- Wednesday 13 April ... 1000–1030

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**Exhibition**

**Located in Exhibition Hall E**

- Monday 11 April ... 1000–1900
- Tuesday 12 April ... 0900–1730
- Wednesday 13 April ... 0900–1500

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**Coffee Breaks**

**Located in Exhibition Hall E**

- Monday 11 April ... 1030–1100
- Tuesday 12 April ... 1030–1100
- Wednesday 13 April ... 1030–1100

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**Networking Lunches**

**Located in Exhibition Hall E**

- Monday 11 April ... 1230–1400
- Tuesday 12 April ... 1230–1400
- Wednesday 13 April ... 1230–1500

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**25th Anniversary Video**

**Located in Exhibition Hall E**

- Setting the Scene Then...Now...and In-Between
- Monday 11 April ... 0830–0900

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**IOGP Outstanding Young Professional Award**

**Located in Exhibition Hall E**

- Monday 11 April ... 1230–1400

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**Welcome Reception**

**Located in Exhibition Hall E**

- Sponsored by HALLIBURTON
- Monday 11 April ... 1730–1900

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**Gala Dinner**

**Located in Sjusøen (Red Sea House)**

- Nedre holmegate 12-20, 4006 Stavanger
- Tuesday 12 April ... 1900–2200
General Information

First Aid Office
First Aid Equipment is located both in the reception of Stavanger Forum conference centre and in the reception of Forum Expo.

Conference Bags
Each delegate can pick up a complimentary conference bag in the registration or exhibition area.

Internet Access
Complimentary access to WiFi is in both Forum Expo and the conference centre. The network is StavangerForum and there is no password. Delegates must simply connect to this network via their WiFi settings and they will be automatically connected.

Cloakroom
The Cloakroom is situated on the Exhibition Floor.

Digital Proceedings
Full conference attendees except exhibition only delegates are entitled to access the papers from the conference. Your unique 12 digit access code and detailed instructions will be provided in a download card.

To collect the proceedings card, please present the ticket provided within the delegate badge. The conference proceedings are distributed from the SPE Stand, stand G16, on the exhibition floor. Proceedings can be collected during exhibition hours, Monday to Wednesday, and a ticket will be required for collection whether included in registration or purchased.

Digital proceedings will be delivered through the OnePetro website. From the first day of the conference you will be able to visit www.onepetro.org and enter your access token to download the proceedings. Registration and log-in to OnePetro will be required to redeem your token, which can only be used for a single OnePetro account. After redeeming your token, you will have continued access to all technical papers for this conference in OnePetro on any compatible device when logged in to your account. PLEASE NOTE: Papers cannot be downloaded in bulk and can only be downloaded individually.

Proceedings provide you with a valuable reference tool after the conference. Conference proceedings are also available to purchase from the OnePetro website.

Filming—HSE PetroTalks
Some of the sessions will be recorded and the captured content made available for viewing after the HSE conference.

Author/Speaker Check-In Room
Authors must check in at the authors’ room located in IMI 1 – 3 before reporting to their session rooms. Authors are asked to check in with SPE in the morning, if speaking in the afternoon or the afternoon before if speaking the following morning. Please meet with your session chairs 30 minutes before the start of the session in the author briefing room located next to the author check in room. We appreciate your assistance in meeting these deadlines to ensure successful sessions.

Author/Speaker Check-In Opening Hours:
- Sunday 10 April .................................................1500–1800
- Monday 11 April .................................................0700–1800
- Tuesday 12 April .................................................0700–1800
- Wednesday 13 April ..........................................0700–1600

Registration Hours
Onsite registration will take place in Exhibition Hall E. Registration will be open at the following times:
- Sunday 10 April .................................................1400–1900
- Monday 11 April .................................................0700–1800
- Tuesday 12 April .................................................0700–1730
- Wednesday 13 April ..........................................0700–1300

The registration desk will be open throughout the conference to assist with any queries.

Press Room
The Press Room is located in Varlivarden Room of the conference building.

Security and Safety
All attendees are required to wear their HSE name badge and badge holder at all times. Use of a badge by the person not named on the badge is grounds for confiscation. If you lose your conference badge, please return to Registration to obtain a replacement.

No one under the age of 15 is permitted on the exhibition floor during official show hours.

Attendees are requested to remain vigilant at all times and anybody acting suspiciously should be reported to a member of the SPE or venue team.

In the event of an emergency, SPE staff and/or venue staff will provide conference attendees with any necessary information and instructions.

Mobile/Cell Phone Policy
As a courtesy to the speakers and your fellow attendees, please turn off all mobile phones during meetings and sessions.

Photography Policy
All SPE sessions are protected by international copyright laws. Photography and video/audio recording of any kind are strictly prohibited in the sessions and throughout the exhibition area.

Alcohol Policy
We recognise the legitimate serving of alcoholic beverages in the process of conducting business and social activities. We also recognise that the use and consumption of alcohol carries with it the requirement for all attendees to consume those beverages responsibly and in keeping with our professional code of ethics and conduct. We strongly oppose the abuse and misuse of alcohol.

Any alcohol brought into the venue without permission will be confiscated.

ExxonMobil engages with indigenous peoples in a manner that is respectful of their cultures and customs. Through open consultation, we work to understand and incorporate indigenous perspectives into project planning, design, execution and ongoing operations wherever our presence has the potential to impact their communities.

In addition, together with government and non-government agencies, we support a number of programs designed to develop human capital, promote safety and health, enhance environment and energy literacy and improve corporate governance.

Through efforts such as these, we’re helping to contribute to progress and development around the world. But there’s a lot more to do. And ExxonMobil is committed to doing our part.

So whether it’s producing new energy supplies, delivering innovative petroleum products or investing in communities, ExxonMobil is developing more than oil and gas; we are helping to support the future.

Energy lives here

To learn more about our global initiatives, please visit: exxom.com
General Information

Smoking Policy
Smoking is prohibited in all areas of the Stavanger Forum except in designated smoking areas.

Room Capacities
One of the key components to the success of the conference is the safety of our attendees and presenters. Due to the popularity of some session topics, it is possible for overcrowding to occur in a session or meeting room. Should this occur, we must comply with policies regarding room capacity and limit admittance to a room that is at capacity. Please make plans to arrive early for sessions that you have a strong interest in attending.

Guests with Special Needs
We take pride in ensuring that our meetings and events are accessible to all attendees with special needs. The main conference building is equipped with lifts. Should you require special arrangements, please speak to a member of staff at the SPE registration desk.

Exhibition Opening Times
The exhibition is located in Exhibition Hall E and is open to registrants at the following times:

Monday 11 April .................................................0900–1730
Tuesday 12 April .................................................0900–1830
Wednesday 13 April ..............................................0900–1500

Lunches
Conference lunches are included for full conference or paid one day delegates. Lunch will be served in the Exhibition Hall at the following times:

Monday 11 April .................................................1230–1400
Tuesday 12 April .................................................1230–1400
Wednesday 13 April ..............................................1200–1300

Exhibitors are encouraged to take a lunch break at 1200 hours on Monday and Tuesday and at 1300 hours on Wednesday to be available to attendees when the sessions break.

Coffee Breaks
Coffee breaks will take place in Exhibition Hall E at the following times:

Monday 11 April .....................1030–1100 and 1530–1600
Tuesday 12 April .....................1030–1100 and 1530–1600
Wednesday 13 April ..................1000–1030 and 1430–1500

Sponsored by:

IADC (Stand 212)

Founded in 1940, IADC’s mission is to improve industry health, safety and environmental practices; advance drilling and completion technology; and champion responsible standards, practices, legislation, and regulations that provide for safe, efficient, and environmentally sound drilling operations worldwide.

International Association of Oil and Gas Producers (Stand 512)
The International Association of Oil & Gas Producers (IOGP) is the voice of the global upstream industry. Oil and natural gas continue to provide a significant proportion of the world’s energy to meet growing demands for heat, light and transport. Our members produce more than a third of the world’s oil and gas. They operate in all producing regions.

Offshore Media Group (Stand 213)

Offshore Media Group (OMG) is Norway’s foremost commercial provider of conferences and exhibitions for the Norwegian oil and gas industry including the annual oil exhibition Offshore Technology Day (OTD). In 2014 the Society of Petroleum Engineers and OMG formed a working relationship to reinforce and support the educational content with OTD and to promote further the two company’s globally aligned goals in the dissemination of technical knowledge to its combined customers and membership base operating in the Norwegian Continental Shelf via key networking and learning events as well as conferences and exhibitions.

ePoster Sessions
A knowledge sharing ePoster is a short PowerPoint presentation delivered in a more intimate environment than the main conference sessions. ePoster sessions will take place in the Exhibition Hall E during coffee breaks on Monday, Tuesday and Wednesday.

Pick up your free copy of our new compendium: Enhancing Process Safety in the Oil and Gas Industry
Visit Registration to get this compilation of the best process safety papers, focused on emerging trends from research and the field. It will provide fresh and real-world perspectives for you to use in your day-to-day job.

Visit the Supporting and Endorsing Organisations’ Stands

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Sustainability
The organisers are committed to keeping the environmental impact of our exhibitions to a minimum. We aim to make progress in the field of sustainability through reducing energy usage, promoting eco-friendly mobility, reducing water consumption, and limiting waste—core values which also drive our members. In the spirit of collaboration of leadership and in recognition of the clear and present benefits and returns of sustainable business practices the Stavanger Forum agree to work together to create to advance sustainable practices within the meetings and events industry by advocating and using more efficient and sustainable resources including organic menus, recycling rain water and recycling waste from conferences and events.
Statoil is an international energy company with operations in 37 countries. Building on more than 40 years of experience from oil and gas production on the Norwegian continental shelf, we are committed to accommodating the world’s energy needs in a responsible manner, applying technology and creating innovative business solutions. We are headquartered in Stavanger, Norway with approximately 22,000 employees worldwide, and are listed on the New York and Oslo stock exchanges.
Stavanger Forum Map

Emergency Exits and Assembly Meeting Points
Process Safety For E&P Operations Training Course

Sunday 10 April • 0900–1700 Jaeren

This course provides a fundamental understanding of process safety techniques and how applying these techniques can improve safety, equipment reliability, environmental performance and reduce overall costs. It presents an overview of the elements comprising process safety, practical examples and how process safety can be integrated into day-to-day operations.

Instructor: Jim Johnston, Contek

Make Any Course Engaging

Sunday 10 April • 0800–1200 & 1300–1700 Forum Deli

This session is built to strengthen basic facilitation and presentation skills, for those with minimal and extensive experience. This workshop is what every SPE presenter “must know.” We will explore the basics of how adults prefer to learn through preferred learning modalities. We will practice using four skills of facilitation to enhance participant retention.

Instructor: Colleen Watson, ERM

Getting to Zero Safety Workshop

Sunday 10 April • 1300–1600 Forum Plaza

The International Association of Oil & Gas Producers (IOGP) reports that the industry’s HSE performance metrics have plateaued. Since 2010, the Society of Petroleum Engineers International (SPE) has played a leading role in organising conversations on how to eliminate safety incidents in the ongoing pursuit for incident-free worksites, i.e., the “Getting to Zero” initiative. These conversations were part of a series of dynamic sessions organised by SPE throughout 2015-2016 that were attended by nearly 750 people in major cities around the world including Houston, Stavanger, Kuala Lumpur and Rio de Janeiro. These meetings were held in person and the live audience was joined by virtual participants from all over the world. Drawing from collective thoughts at these events, key barriers to reaching the “zero harm” goal will be identified and recommendations on how to overcome these challenges will be explored. We invite you to share your experiences and ideas at these events to jointly frame a roadmap that defines safety standards within the industry.

IOGP Outstanding Young Professional Award

Tuesday 12 April • 0830–0900 Mastrafjorden A&B

For 40 years, IOGP has promoted safe, responsible and sustainable Exploration & Production operations. To maintain this momentum, the upstream industry will have to rely on future generations of leaders. In recognition of this fact—and to inspire the next generation—IOGP has launched the Outstanding Young Professional Award in association with the biennial SPE HSSE-SR International Conference.

The Outstanding Young Professional Award recognises the achievements of an individual with fewer than 10 years of professional E&P experience and the first ever recipient of this award will be announced on the second day of the conference. Please join us for this inaugural award ceremony at 0830.

Conference Dinner

Tuesday 12 April • 1900–2200 Sjøhusene (Red Sea House)

The Red Sea House has a great history. When it was built in the beginning of 1850s, the builders used a very special technique that makes this building unique in Stavanger. When it was finished, it was used as a storage building like many of the other sea houses in Stavanger. At that time the sea went all the way up to the house, enabling the boats to deliver and pick up their goods directly from the front doors and this was the main use of the house all the way up to the 1950s. Twenty years later a famous Norwegian property mogul bought the building and renovated the entire house in 1979. The architect Louis Kloster was awarded a diploma for the conservation of the Red Houses. Since then the house has been used for concerts, conferences and banquets and is the biggest sea house in Stavanger, consisting of four floors.

Nedre holmegate 12-20, 4006 Stavanger
Student Activities

Student Paper Contest

Monday 11 April–Tuesday 13 April • 0900–1730
Vindafjorden

SPE will be hosting the European Regional Student Paper Contest at the undergraduate, master’s, and PhD levels in conjunction with The International Conference and Exhibition on Health, Safety, Security, Environment, and Social Responsibility (HSSE–SR) in Stavanger, Norway. Students compete against other students from their region for the opportunity to advance to the International Student Paper Contest, held during the Annual Technical Conference and Exhibition (ATCE). Contestants enter with an abstract of their paper, which they then present on the day of the competition. The victors proceed to the international contest at ATCE have their papers published in the conference proceedings and on OnePetro.

HSE Challenge

Tuesday 12 April • 1100–1700
Synnesvarden

During the conference, the first-ever European Health, Safety, Security, and Environmental (HSSE) Student Challenge will take place. The objective of this event is to give students interested in the HSSE arena of the Oil and Gas (O&G) industry a chance to display knowledge on HSSE topics and interact with industry professionals. The Challenge will be composed of multiple rounds of question-and-answer competition. Questions will include a mix of topics about the oil and gas industry in regards to environment, social performance, sustainability, and health and safety.

PetroBowl®

Wednesday 13 April • 0900–1700
Vindafjorden

The PetroBowl® competition pitches SPE student chapter teams against each other in a series of quick-fire rounds, answering technical and nontechnical industry-related questions. The contest has grown in size and popularity since its debut in 2002, and in 2015 was taken globally with the introduction of six regional qualifier contests. Regional qualifier competitions now take place in the Africa, Asia Pacific, Europe, South America and Caribbean, Middle East, and North America SPE regions, and the best 36 teams are invited to the PetroBowl® championship at the SPE Annual Technical Conference and Exhibition.

Helping our oil and gas clients achieve HSE performance, while managing risks and costs across the entire value chain.

ERM is a leading global provider of environmental, health, safety, risk, social consulting, and sustainability related services with more than 160 offices in over 40 countries and territories employing more than 5,000 people who work on projects around the world.

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Plenary Sessions correct as of March 2016

Opening/Keynote Session
Climate Change—The Road Ahead for the Oil and Gas Industry

Monday 11 April • 0830–1030
Mastrafjorden A&B

Session Chair: Brian Sullivan, APIECA
The opening session will feature a keynote address by Nathan Meehan, SPE’s 2015-2016 President, and others who will provide a visionary view of what lies ahead for our industry. The opening session will focus on the need for collaboration and—in light of the current global business climate—the imperative to maximise HSE programmes and help achieve the needs of shareholders and stakeholders alike.

Very few issues evoke the same level of passion and controversy as climate change. Despite multiple viewpoints, the issue is here to stay and the energy industry has a definitive role to play. In late 2015, world leaders met in Paris as part of the U.N. climate conference (COP21) and agreed to try to limit warming of the atmosphere to “well below” 2 degrees above pre-industrial levels. Like the issue itself, the oil and gas industry is quickly evolving and must play a constructive role to help balance economic, environmental, and societal priorities.

In alignment with the 2016 HSSE-SR Conference theme, ‘Sustaining our Future through Innovation and Collaboration,’ the panelists will share their forward-looking perspective on opportunities for the energy industry to innovate and collaborate on the subject of climate change.

Moderator:
Nathan Meehan
SPE President
2015–2016

Speakers:
Maria Moraeus
CEO, Engie E&P

Rupert Thomas
Shell, Vice President Environment

Bjorn Otto Sverdrup
Statoil, SVP Sustainability

Plenary Session 1: Building Trust—A Panel of Diverse Viewpoints

Monday 11 April • 1100–1230
Mastrafjorden A&B

Session Chair: Sue Staley, Shell
Society at large does not trust that the industry can produce oil and gas without causing harm to workers, the environment and the communities it works in. But in a growing and ever more energy hungry world—even in the face of climate change—the industry will still be a key source of primary energy for decades to come. This panel session will explore how the industry can rebuild trust to continue to help meet the world’s energy needs.

Moderator:
Sven Mollekleiv
Senior Vice President and Head of Corporate Social Responsibility, DNV GL; President of the Norwegian Red Cross

Speaker:
Terry A’Hearn
CEO, Scottish Environment Protection Agency

Cameron Ironside
Sustainability Director, IHA Sustainability

Peter Seligmann
Chairman, Conservation International

Eidar Sætre
CEO, Statoil

Plenary Session 2:
Applying Learnings from Incidents from the Airline Industry

Tuesday 12 April • 0900–1030
Mastrafjorden A&B

Session Chairs: Claudine Gorman, Exxonmobil and Tom Knodle, Statoil
The airline industry has mature processes for sharing and learning from their incidents and near misses. Speaker(s) from the airline industry will discuss these processes. Currently, Operations and HS&E staff spend a considerable amount of time sharing information on incidents that have occurred at their assets. Some of this information is put on SharePoint or company intranet sites, and many potentially significant incidents are shared with other operators and contractors. There is a significant amount of information available on historical incidents, so why do the same types of incidents occur over and over again? The information appears to be shared well with leadership, but does it get out into the field where it really matters? Are we connecting with the workforce? We are sharing information, but we do not always seem to be truly learning. The purpose of this panel is to encourage a dialogue on how we can better truly learn from our past incidents, and establish a culture of learning.

Moderator:
Morten Mauritsen
ExxonMobil Exploration and Production Norway AS

Speakers:
Andrew Dingee
Operational Excellence Advisor, The Frontline Group

Robert Schroeder
Pilot, Lufthansa

Dave King
Vice President, Upstream HSE, BP

Plenary Session 3:
The Challenge of Human Performance

Wednesday 13 April • 0830–1000
Mastrafjorden A&B

Session Chair: Steve Kropla, IADC
For many decades, organisational attention to “human performance” has consisted of little more than blaming the individual and then trying to figure out some corrective actions based on the presumed cause—actions often aimed at the individual or others rather than true underlying causes. This may be a flawed approach, if one considers perhaps the most consistent of human traits is to make mistakes. A better approach may be to pay attention to the systemic factors that potentially caused the problem in the first place. Shouldn’t we really be asking how to set up systems to take the human out of the equation, or to at least keep them from aggravating the situation? Understanding and leveraging principles of Human Performance is one aspect to becoming a high reliability organisation. What are the kinds of things that certain companies consistently focus on that makes them high reliability organisations?

Moderator:
Tanya Lughermo
HES Senior Advisor for Human Performance, Chevron

Speaker:
Todd Conklin, PhD.
Senior Advisor and Human Performance Consultant, Los Alamos National Laboratory

Rob Fisher
President, Fisher Improvement Technologies

Rhona Flin
Emeritus Professor of Applied Technology, University of Aberdeen
Monday 11 April • 1400–1530

**Mastrafjorden A**

**OIP: Water: Threat or Opportunity? Sharing the Water Commons**

Session Chairs: Xiaoling Xu, CNPC and Jay Wagner, Plexus Energy

While water is essential to sustaining life and livelihoods, the world’s water systems are facing threats. More than one billion people live in water-scarce regions and it is predicted that by 2030, global water demand could outstrip supply by 40%. Increasing agricultural, municipal and industrial withdrawals and discharges are degrading some freshwater and coastal aquatic ecosystems, and climate change is set to shift precipitation patterns and speed up glacial melt, altering water supplies and intensifying floods and droughts. The energy industry will increasingly face competition for the water resources it relies on and new pressure points will emerge which will transform the business landscape. Large-scale resource extraction and processing operations that rely on water and have limited ability to relocate are particularly vulnerable, even more so if those operations are located in impoverished, volatile states. This Panel will identify strategic water management challenges facing the energy industry; explore the relevance of water to decision-making; address the growing importance of water rights; discuss the drivers of future water policy; and explore what represents good water governance. Drawing on examples from inside and outside the energy industry, participants will consider the role of innovation in finding sustainable solutions to the energy/water nexus; demonstrate what sustainability means; and emphasise the value of sound risk management based on environmental, social, legal, and economic perspectives.

**Moderator**
Kelly Moynihan
ExxonMobil

**Speakers**
Stuart Orr
World Wildlife Fund
Joseph Lima
Schlumberger
Will Sarni
Touche Deloitte

Monday 11 April • 1400–1530

**Mastrafjorden B**

**02T Biodiversity and Ecosystem Services**

Session Chairs: Jacques Miné, Total and Paola Pedroni, Eni

The oil and gas industry has long recognised the business value of identifying and managing dependencies and potential impacts of its operations on the natural environment (biodiversity) and the resources it delivers (ecosystem services). This session provides representative examples of implementation of good practices that illustrate how these issues can be effectively addressed along the asset lifecycle.

**TIME** | **PAPER #** | **PRESENTATION**
--- | --- | ---
1400 | 179220 | Identifying Priority Ecosystem Services in Peru • J. Lopez-Flora, Repsol E&P; H. Nyd, Fauna & Flora International; A. Watson, Repsol Exploración Perú; E. Parham, Fauna & Flora International; A. Garcia, Repsol Exploración Perú; P. Howard, Fauna & Flora International; C. Santamaria, Repsol E&P
1430 | 179399 | Managing Biodiversity Challenges in a Sensitive Remote Scottish Island Environment • C.S. MacPrenon, R. Keown, C. Hynd, TOTAL E&P UK
1500 | 179359 | Aligning Biodiversity and Ecosystem Services Impact Mitigation With the Operational Lifecycle of The Nikaitchuq Site (North Slope, Alaska) • D. Speranza, eni; A. Guillou, Euro Engineering
Monday 11 April • 1400–1530  

Lysefjorden A

**OST Integrating Community Knowledge For Project Success**

Session Chairs: Muriel Barnier, Schlumberger and Michael Seymour, Shell

Participants will hear presentations on the value of knowledge sharing with community members or current community partners. The lessons include how companies implement and assess full socio-economic impact and form relationships with the communities to understand which tools or technology should be engaged for successful field development. The presenters will discuss lessons learned from Native dwellers to understand local and traditional knowledge of behaviour in a variety of contexts. This includes partnerships with the Native Governments to document knowledge, utilising semi-directed interviews, and community advisors. The approaches presented are based on open dialogue with stakeholders, on community participation in defining projects, skills development and capacity building of the community to ensure the sustainability of social investment projects. Many of these examples will benefit the participants because the presenters have been recognised as a world reference. There have been many challenges and lessons learned during those years that will be shared with this audience.

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<tr>
<th>TIME</th>
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<tbody>
<tr>
<td>1400</td>
<td>Invited</td>
<td>The Effects of Project Induced In-migration on a Small Island Population in Scotland</td>
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<tr>
<td>1430</td>
<td>179284</td>
<td>Traditional Ecological Knowledge on Acoustic Disturbance—Research Project Partnering With Communities on the North Slope, Alaska</td>
</tr>
<tr>
<td>1500</td>
<td>179389</td>
<td>The Bolivian Chaco Region: A Challenging Societal Context • C. Trigo, Total E&amp;P Bolivia</td>
</tr>
</tbody>
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Monday 11 April • 1400–1530  

Uburen

**OST Health Impact Assessments and Community Health Strategies**

Session Chairs: Maria Orenstein, Habitat Health Impact Consulting and Liesbeth Verheugd, Shell

These presentations will focus on health impact assessment and other approaches for identifying and mitigating impacts on community health, as well as potential community benefits that can be generated by oil and gas projects.

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<tr>
<th>TIME</th>
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<tr>
<td>1400</td>
<td>Invited</td>
<td>Health Impact Assessment: A New Guidance For The Oil and Gas Sector • F. Uberti, Eni</td>
</tr>
<tr>
<td>1430</td>
<td>179477</td>
<td>Health Impact Assessment: Moving From Assessment to Decision Making and Management • H.S. Erickson, Chevron Energy Technology Company (a division of Chevron U.S.A., Inc.); T. Barron, Tesch Barron Associates; R. Hunicke, Chevron Energy Technology Company (a division of Chevron U.S.A., Inc.); A.L. Drinkwater, Chevron Technology, Projects, and Services (a division of Chevron U.S.A., Inc.); J. Beck, Environmental Resources Management (ERM)</td>
</tr>
<tr>
<td>1500</td>
<td>179492</td>
<td>Identifying and Managing Community Health and Safety Risks and Impacts During the Construction of a Petrochemical Refinery: Experience from Southeast Asia • J. Shandro, Monkey Forest Consulting Ltd.</td>
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Monday 11 April • 1400–1530  

Snøhutten

**07P Implementing Process Safety in the Drilling Industry**

Session Chairs: John Karish, Consultant and Steve Kropia, IADC

Post Macondo learnings have resulted in an increased focus on process safety to ensure catastrophic incidents do not occur. Drilling contractors have used HSE (Safety) Cases in the past to address these issues. This panel session will feature the viewpoints of drilling contractors, operators and regulators and to engage the audience in a constructive dialogue.

**08P Sustainability To Drive Innovation and Value Creation**

Session Chairs: Caroline Narich, Accenture and Tom Woollard, ERM

The challenge of sustainable human development is leading to opportunities for innovation in almost every aspect of life on this planet. Businesses are economic instruments driven by demand, amongst other factors. Sustainability is creating a new category of demand—solutions that reduce humankind’s impact on the planet. This session will present a framework that is being used by leading corporations to identify and quantify how value can be captured from sustainability. Case studies drawn from inside and outside oil and gas industry will demonstrate how sustainability is being deployed to deliver better risk management, greater financial returns and new business opportunities. Participants will be encouraged to reflect on the case studies and offer up examples of innovative value creation, anchored in the emerging demand for more sustainable products and services.
Technical Programme correct as of March 2016

Monday 11 April • 1600–1730  
Mastrafjorden B

**09T Water Management: Risks and Opportunities**

Session Chairs: Zachary Caplecha, FTIS International and Jeffrey Jeter, EBRD

Water Management within the oil and gas industry is an ongoing concern. This session postulates on the future vision of water management within the industry and reviews issues of water use and produced water management.

**TIME** | **PAPER #** | **PRESENTATION**
---|---|---
1600 | 179445 | *What is the 2030 Vision for Water Management in the Oil and Gas Sector?*  
A. Wyness, BP International plc; R.F. Romer, IPIECA

1630 | 179326 | *Produced Water Management Under The Norwegian “Zero Harmful Discharge Regime”—Benefits With The Risk Based Approach*  
S. Nesse, DNV GL; E. Garpestad, E. Dragsund, Norwegian Oil and Gas Association

1700 | 179366 | *Responsible Water Resources Management in a Semi-Arid Region of Kenya Using Techniques From Public Water Utilities*  
R. Bioak, Tullow Kenya BV

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Monday 11 April • 1600–1730  
Mastrafjorden C

**10T Implementing Barrier Systems in Managing Major Accident Hazards**

Session Chairs: Hakon Fartum, Lloyds Register and Jonathan Smith, Maersk Oil

These presentations will focus on health impact assessment and other approaches for identifying and mitigating impacts on community health, as well as potential community benefits that can be generated by oil and gas projects.

**TIME** | **PAPER #** | **PRESENTATION**
---|---|---
1600 | 179364 | *Barrier Management and the Interaction Between Technical, Operational and Organisational Barrier Elements*  
O. Lauridsen, E. Lootz, T. Husebo, G. Ensal, Petroleum Safety Authority Norway

1630 | 179214 | *Functional Barrier Model—A Structured Approach to Barrier Analysis*  
A. Van Appelen, A-RisC

1700 | 179296 | *A Holistic Approach to Safety Barrier Management*  
B. Jansen, F.L. Firing, Statoil

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Monday 11 April • 1600–1730  
Lysefjorden B

**11T Climbing the Cultural Ladder**

Session Chairs: Antoine Augustin, ENGIE and Chris Howkes, IOGP

Creating a strong HSE culture is key to delivering world class HSE performance. The session explores the approaches adopted by organisations to embed and recognise a strong HSE culture within each organisation.

**TIME** | **PAPER #** | **PRESENTATION**
---|---|---
1600 | 179254 | *“Sharing Love for Health & Safety,” an Innovative Communication Campaign Designed to Create Workforce Engagement Through the Spread of Health and Safety Messages in Unconventional Ways*  
D. Scotti, D. Matkin, S. Ruffolo, Saipem Spa

1630 | 179450 | *Culture Change Framework Dramatically Improves Safety Performance*  
B. Dunsmore, Baker Hughes; G. Rainbow, Competency Based Solutions

1700 | 179213 | *Corporate Transformation To Embrace a Positive Safety Culture*  
T. Sugimoto, D. Guilarte Mantellini, A. Salmoher, JGC Corporation

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Monday 11 April • 1600–1730  
Lysefjorden A

**12T Investing in Partnerships for Long Term Development**

Session Chairs: Muriel Barnier, IPIECA

Investment in unconventional partnerships is a proven process to target successful strategies in the energy sector. Public-Private Partnerships (PPP) is the tool that the international development community, including international financial institutions (IFIs) are increasingly utilising for developing and/or enhancing critical public infrastructure assets services. The lessons learned from these extensive and successful efforts along with the evaluations will be presented in this technical session. The methodologies for success covered will include Social integration which means not only working together with communities and local authorities, but also building together a common vision of local development. The session will include how common vision on the development of a particular territory arises from a dialogue among the visions of local communities, authorities, technicians and employees. Technical session participants will be exposed to plans that integrate efficiently with projects and programmes planned with local inhabitants; non-governmental organisations; any authority; and energy companies. The novelty of the proposal is the method of participative planning that makes sure the inhabitants are promoters of sustainable cities and share the vision of energy companies about their future development.

**TIME** | **PAPER #** | **PRESENTATION**
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1600 | 179425 | *Public-Private Partnership: Lessons Learned From a Large Project in a Developing Country Setting*  
A. Nowosiwsky, D. Prest, ExxonMobil PNG Ltd; J. Moore, Esso Australia Pty. Ltd; G.R. Krieger, NewFields, LLC

1630 | 179242 | *Building A Common Vision Of The Local Development Using A Methodology Called Participatory Territorial Planning*  
A. De Caro, M. Méndez, Petroleos de Venezuela SA

1700 | 179344 | *Developing Social Business Initiatives For Access To Energy, A Key Success Factor for Sustainability: The Awango Project*  
J. Fontaine, C. Dargnies, TOTAL

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Monday 11 April • 1600–1730  
Uburen

**13T Infectious Diseases: The New and the Old**

Session Chairs: Knut Jorgen Arnzen, Statoil and Marci Balje, NewFields

Infectious disease threats include well-known, well-characterised diseases such as tuberculosis, as well as emerging diseases such as the West African Ebola outbreak. Either way, they have the potential to disrupt oil and gas operations and require adapted strategies to ensure business continuity in the midst of public health crises. The presenters will describe their experience of preparing and responding to infectious disease threats, both emerging and established, in a variety of geographical settings.

**TIME** | **PAPER #** | **PRESENTATION**
---|---|---
1600 | 179375 | *A Global Effective Ebola Outbreak Preparedness and Response From an Oil and Gas Company Perspective*  
M. Diare, ExxonMobil Corporation; S. Nuppen, Fircroft; B. Alyo, Mobil Producing Nigeria Unlimited;  
S. Jones, ExxonMobil; A. Brown, Arinergy; C. Simmons, G. Miller, ExxonMobil Corporation;  
R. Penderleith, ExxonMobil Development Company; C. Gomez, ExxonMobil Production Company;  
D.L. Buford, ExxonMobil Corporation

1630 | 179370 | *A Collaborative Approach to Infectious Disease Preparedness: The IDRAM Initiative*  
F. Viliani, International SOS & Chatham House; M. Edelstein, A. Ormaz, O. Dar, Chatham House;  
E. Buckley, Public Health England; H. Tariq, Researcher; Z. Sadique, London School of Hygiene and Tropical Medicine

1700 | 179413 | *TB or Not TB: Development of an Integrated Occupational and Community Health TB Surveillance Program*  
A. Nowosiwsky, N. Burke, J. Moore, ExxonMobil PNG Ltd; G.R. Krieger, NewFields, LLC

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Monday 11 April • 1600–1730

14P Behavioural Safety: A Valuable Approach to Multicultural Workplaces

Session Chair: Luciano Scataglini, Eni

The increasing need to recruit local resources in oil and gas operations and the oil price constraints pose a real challenge to the industry, which presents the following issues:

• Multilingual workforce
• Lack of specific competency and low perception of risks
• Different cultural and religious aspects
• Need for short-term assignments that imply reluctance to self-engagement
• Poor attention to personal safety and fatalism
• Poor recognition of authority to indigenous supervisors

These issues require assessment and management of behavioural aspects, focused on risk perception, polite and constructive two-way communication, investment in high-profile local resources, training, reporting of unsafe acts, and incentives focused on safety behaviors.

PAPER # PRESENTATION

179270 Behavioural Rating of Drillers’ Cognitive Skills • R. Roberts, R. Flin, University of Aberdeen

179356 HSE Assessment of Contractor Supervisors: An Innovative Approach Based On Performance Audits, Self-Assessment and Metrics • G. Rivas, L. Frattini, M. Gusto, ENI upstream

179400 Addressing the Gaps Between Occupational and Process Safety Culture S.D. Lakhiani, T. Morrison, J.B. Sala, Exponent, Inc. (USA)

Tuesday 12 April • 1100–1230

15P Accounting for Sustainability Performance: Getting the Right Data to the Right People in the Right Form

Session Chairs: Alex James, Halliburton and Hilde Roed, Statoil

Utilisation of utility data and information to drive good business decision-making is integral to every company. This session will examine how sustainability performance information can be a resource for improved business performance for the oil and gas sector. As an industry, we collect and report sustainability data to internal and external—regulatory, fiduciary and non-governmental—stakeholders in order to assess and influence business performance through elements that we can control. Although industry reporting guidelines exist, there is no standardised Sustainability reporting system recognised by all stakeholders and companies. As a result, industry and companies are faced with key questions that this panel session will explore:

• What information should be collected that will satisfy both business and external performance demands?
• How does the oil and gas industry align around common Sustainability factors and measures?
• Which industries have successfully integrated Sustainability indicators into meaningful actions?
• What are some examples of successful integration of Sustainability indicators into performance—both inside and outside of our industry?
• Going forward, how can we improve decision making, drive sustainability and improve business performance within our companies?

Tuesday 12 April • 1100–1230

16T Ecological and Environmental Risk Assessment

Session Chairs: Sandra Barber, Chevron and Ian Sealy, Schlumberger

Methods for the assessment of environmental and ecological impacts, and design of installations to minimise associated impacts, will be discussed in this session.

TIME PAPER # PRESENTATION

1100 179208 Applying an Ecological Avoidance Program To Minimise Environmental Impacts During a Seismic Survey D. Ochanda, A. Cramer, Total E&P Uganda


Tuesday 12 April • 1100–1230

17T Land Transport Safety

Session Chairs: Svein Olav Drangeid, OMV and Dominique Grepinet, Total

Land transport related incidents affect all areas of operations, our people and their families, and the communities that we live and operate in. All too frequently, these incidents result in life altering injuries and fatalities. This session provides case studies, innovative thinking and collaboration between operating companies, contractors and vendors in pursuit of Zero Driving Incidents.

TIME PAPER # PRESENTATION

1100 179472 Successfully Managing a Large High-Hazard Road Transport Operation Using the ‘Hearts and Minds’ Tool ‘Driving for Excellence’ • P.A. Hudson, Hudson Global Consulting Ltd.

1130 179221 A Risk Based Approach to Driving and Journey Management for Land Transport Contractors G. Wirastama, M. Taurianen, Schlumberger

1200 179346 The Relative Success of Three IVMS Implementation Strategies • C. Catten, C. Johnson, intinc

Tuesday 12 April • 1100–1230

18T How To Influence and Engage Our People

Session Chair: Denny Kotru, Beach Energy and Davide Scotti, Saipem

The session considers how to engage and influence the behaviour of individuals and groups of individuals, in particular with respects to their attitudes towards risk and their active engagement within the HSE management system.

TIME PAPER # PRESENTATION

1100 179255 The Influence of Communicating About Safety Measures on Risk-Taking Behavior J. Groeneweg, E. ter Mors, Leiden University

1130 179397 HSE for Youth: How Sharing HSE Expertise Externally Reinforces the Principles Internally M. Barner, M. Stott, Schlumberger

1200 179444 Developing a Sustainable HSE Culture—Learning from the Corrib HSE Journey J. Trench, P.J. Collieran, Shell E&P Ireland Ltd.
Tuesday April 12 • 1100–1230  Lysefjorden A

19T Learnings From Conflict Zones

Session Chairs: Emery Brusset, Social Terrain and Krish Ravishankar, Oxy

Conflicts may not always be overt, but it is an important dimension of the social responsibility of companies. Other industries (mining, remote regions, joint interventions, all offer useful and practical examples of how this could be done. The notion of sensitive environments speaks to the significant financial and reputational implications of getting it right.

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| 1100 | 179417  | Learning from Community-Company Conflicts: Practical Approaches 
Y. Ono, International Alert |
| 1130 | 179337  | Working In Conflict Zones: The Nigerian Oil & Gas Industry Example 
V.G. Nnadi, L. Isung, Total E&P Nigeria Ltd |
| 1200 | 179279  | Outreach and Communication; Phase Two of the Joint Industry Project on Oil Spill Response 
A. Nicoll, Oil Spill Response Limited; R.T. Cox, IPIECA |

Tuesday April 12 • 1100–1230  Uburen

20P What is the Next Ebola? Are We Prepared for It?

Session Chairs: Malick Diara, ExxonMobil and Michael Edelstein, Chatham House

This panel session will focus on exploring public health emergencies that may impact Oil and Gas Operations and key areas for preparedness. The panelists will speak about how industry-wide collaborative efforts can help in preparing and responding to emergencies.

Moderator
Malick Diara
ExxonMobil

Speaker
Claire Esbenshade
A��norMittal

Speaker
Nolan O’Neal
ExxonMobil

Speaker
Raphael Slattery
World Health Organization

Tuesday April 12 • 1100–1230  Snøhvit

21P Well Operations: Crew Resources Management

Session Chairs: John Karish, Consultant and Steve Kropla, IADC

The introduction of Crew Resource Management skills has shown proven benefits in industries such as aviation, maritime, medicine, and construction. Can the introduction of non-technical skills such as situational awareness, leadership, and team work show the same type of benefit for drilling operations? This panel will explore the issues faced by other industries in adapting CRM to their needs, the challenges of translating academic concepts to practical rig applications, and how CRM might best be introduced in well operations to ensure acceptance and effective usage.

Moderator
Steve Kropla
IADC

Speaker
Rhona Flin
University of Aberdeen

Speaker
Adam Dawson
Maersk Training

Speaker
Dag Silsøset
Norwegian Shipowners’ Association

Speaker
Kristian Gould
Statoil

Tuesday April 12 • 1400–1530  Mastrafjorden A

22P Climate Change—Past, Present and Future

Session Chairs: Nate Teti, Statoil and Francisco Porturas, Zibib

Very few issues evoke the same level of passion and controversy as climate change. Some argue that climate change now poses the greatest single threat to humanity, while others debate the premise itself. Despite personal viewpoints, the issue is here to stay and the energy industry has a definitive role to play. In late 2015, world leaders met in Paris as part of the U.N. climate conference (COP21) in an effort to agree upon an emissions reduction framework. Like the issue itself, the oil and gas industry is quickly evolving and must play a constructive role to help balance economic, environmental, and societal priorities. The session panelists will discuss the implications of COP21 for various stakeholders, identify potential roadblocks, and provide their views on the role industry must play going forward.

Moderator
Kamel Bennaceur
International Energy Agency

Speaker
Bjorn Otto Sverdrup
Statoil

Speaker
Brian Sullivan
IPIECA

Speaker
Khaled Al-Buraik
Saudi Aramco

Speaker
Gerard Houtet
Total
Tuesday 12 April • 1400–1530

**Lysefjorden B**

### 25T Improving Cost Efficiencies While Preserving HSE Performance

**Session Chair:** Dominique Grepinet, Total and Kirsty Walker, Schlumberger

Maintaining high levels of HSE performance is challenging at the best of times. In an environment where resources are under considerable pressure, how do organisations maintain, or even improve their performance?

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<tr>
<td>1400</td>
<td>179408</td>
<td>Preserving Environmental Compliance in Low Cost Market Conditions C. Cadle, J. Morrisette, Baker Hughes</td>
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<tr>
<td>1430</td>
<td>179206</td>
<td>Cost Cutting and Improving Safety at The Same Time, Possible? J.R. Huse, Lloyd’s Register Consulting - Energy AS</td>
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<tr>
<td>1500</td>
<td>179467</td>
<td>Safety and Environmental Management Under Cost Pressure: Threats, Challenges, and Solutions D.C. Botheju, K.P. Abeyesinghe, Academy of Safety and Environmental Studies</td>
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Tuesday 12 April • 1400–1530

**Lysefjorden A**

### 26T Local Content: Creating Shared Values

**Session Chairs:** Jonathan Matherweli, JTM Associates and Krish Ravishankar, Oxy

Host countries are increasingly turning towards local content as a means of ensuring that development of oil and gas reserves delivers benefits to their citizens beyond the payment of royalties and taxes. Many oil and gas companies have identified that local content efforts, when strategically approached, can be a significant enabler of long term value for companies, communities and countries. Today local content good practice is informed by the concept of creating ‘shared value’.

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<tr>
<td>1400</td>
<td>179239</td>
<td>Planning for Local Content: The Case of Block 2 in Tanzania T. Fossgard-Mosser, H. Back, Statoil ASA</td>
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<tr>
<td>1430</td>
<td>179285</td>
<td>Hammerfest LNG Plant in Norway—Significant Local Value Creation K.D. Holand, R. Rannig, Statoil ASA</td>
</tr>
<tr>
<td>1500</td>
<td>179446</td>
<td>Impact Investment: A New Opportunity for Oil and Gas • B. Briggs, Social Terrain</td>
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Tuesday 12 April • 1400–1530

**Uburen**

### 27T Technologies To Support Decision Making in Health

**Session Chairs:** Heidi Erickson, Chevron and Francois Pelat, Transocean

This session addresses how to enhance the delivery of healthcare services from a distance using advanced information, IT and latest generation medical equipment. Telemedicine in the offshore environment, deployment of advanced diagnostic tools and integrated electronic medical records management are examples presented in this session.

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<tbody>
<tr>
<td>1400</td>
<td>179204</td>
<td>When MEDEVAC is a Challenge: An Innovative, Easily Deployable, Fully Integrated Medical Support, Proven In Arctic Conditions • B. Sicard, PMSm, F. Marouze, CGG, C. Roche, A. Saliola, CTSA</td>
</tr>
<tr>
<td>1430</td>
<td>179494</td>
<td>An Electronic Medical Record System Supporting Global Health and Medical P. Manipaz, L. Castillo, S. Hemmington, Chevron Corporation</td>
</tr>
<tr>
<td>1500</td>
<td>179218</td>
<td>The Use of Telemedicine in Offshore and Remote Locations I. Drummond Filho, A. Fraca, A. Coelho, International SOS</td>
</tr>
</tbody>
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### Technical Programme (correct as of March 2016)

**Tuesday 12 April • 1400–1530**

**Lysefjorden B**

### 28P Why Can’t We Make Things Simple?

**Session Chairs:** Yvva Gilbert, Gaia Consulting and Don Smith, Eni

The plethora of industry and stakeholder standards, trade association guidance, company standards, audit requirements etc has led to a bureaucratic and inefficient approach to the management of HSE. Through harmonisation and alignment of industry standards, we can free up resources, reduce costs and make the operations safer. The core industry value to achieving no harm is after all, the same for all of us.

**Moderator**
- Don Smith
  - Eni
- Chris Hawkes
  - IOGP
- David Harris
  - Schlumberger
- Steve Kropa
  - IADC
- Kathy Ann Kanocz
  - Statoil

---

**Tuesday 12 April • 1400–1530**

**Lysefjorden A**

### 29P Unconventional Resources: Social License to Operate

**Session Chairs:** Jean Lennock, Total and Stan Sokul, ExxonMobil

Unconventional resources including shale oil and gas have resulted in significant oil and gas development in North America with expectations that it will occur across the globe where the geology, society, and expectations permit. This panel will explore the development to date including how impacts have been identified and managed through key studies, regulator actions and tools, voluntary programmes, and scientific assessment. Still the expansion of unconventional resources is occurring in an uneven manner and the panel will discuss the social responsibility aspects through the perspective of those working closest to the oil and gas action.

**Moderator**
- Jean Lennock
  - Total
- Kelly Maynihan
  - ExxonMobil
- Paul Krishna
  - ExxonMobil
- Claude Chaineau
  - Total
- Mike Paque
  - Ground Water Protection Council
- Rhonda Miller
  - IGAS Energy

---

**Tuesday 12 April • 1400–1530**

**Uburen**

### 30T Greenhouse Gases, Measurement and Controls

**Session Chairs:** Wendy Brown, Total and Richard Welch, Langan

Air emissions, including greenhouse gases, continue to be a topic of notable interest within and outside the oil and gas industry. This session reviews aspects of emissions accounting, regulatory reporting and some of the ways that this can be achieved by effective energy management programmes.

**Moderator**
- Wendy Brown
  - Total
- Mike Paque
  - Ground Water Protection Council
- Rhonda Miller
  - IGAS Energy
### Technical Programme

**Tuesday 12 April • 1600–1730**

#### 3IT Process Safety Management: Indicators and Elements

**Mastrafjorden C**

**Session Chairs:** Fiona Auon, Chevron and Matthew Zerafa, Riskbytes

"You can’t manage what you don’t measure” is an old adage applied in PSM by establishing process safety performance measurements and leading and logging KPIs. How you measure is as important as what you measure in managing major incident risk. This session will explore the combination of risk management and asset integrity principles to prevent process safety incidents, the application of KPIs in measuring hardware and human-related barrier performance, and the relationship between process safety indicators and major accident risk.

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<tr>
<th>TIME</th>
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<tbody>
<tr>
<td>1600</td>
<td>179223</td>
<td>Major Accident Indicators in High Risk Industries—A Literature Review S.S. Kikker, K. Blien, R.K. Tjernman, SINTEF Technology and Society; J.E. Heggland, R.H. Hindersaker, Petroleum Safety Authority Norway; S. Wiig, Petroleum Safety Authority Norway and University of Stavanger</td>
</tr>
<tr>
<td>1630</td>
<td>179393</td>
<td>Monitoring the Health of the Asset Integrity Management System Through the Use of Generic KPIs M. Gawish, D. Smith, ENI UK</td>
</tr>
<tr>
<td>1700</td>
<td>179461</td>
<td>An Approach To Process Safety Management E.T. Chandler, Shell Global Solutions BV; R. Bryden, Shell Global Solutions Int.; T. Paul, Shell Global Solutions US Inc.; S.E. Roddy, Shell UK</td>
</tr>
</tbody>
</table>

#### 32T Matching Competence to Risks and Priorities

**Lysefjorden B**

**Session Chairs:** Antoine Augustin, ENGIE and Davide Scotti, Saipem

The session explores three different aspects of competency and knowledge development. The first presentation addresses a tri-partite approach aimed at improving understanding of the local regulatory requirements. In the second presentation, experiences are shared in developing operations managers’ understanding of, and ability to address, major incident risk. The final presentation considers updates to the IOGP guidance related to developing competency management systems for geophysical personnel with HSE responsibilities.

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<th>TIME</th>
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<tbody>
<tr>
<td>1600</td>
<td>179210</td>
<td>Tripartite Collaboration on Enhancing Knowledge About Norwegian HSE Regulations for the Petroleum Activities L. Myrthall, RVK; H. Spilde, Petroleum Safety Authority Norway; N.G. Gundersen, G. Solberg, K.O. Tendenes, RVK</td>
</tr>
<tr>
<td>1630</td>
<td>179308</td>
<td>Increasing Operational Managers’ Awareness And Ability To Address Major Accident Risk By Means of Operational Training O.H. Utlavik, H. von Hirsch Maclean, A. Hauge, StatOil ASA</td>
</tr>
<tr>
<td>1700</td>
<td>179426</td>
<td>Competency Management Guidance for Geophysical Industry Personnel with HSE Responsibilities I.M. Threadgold, Threadgold Safety Management; S.G. Hallows, Selket; R. Ingram, ExxonMobil Exploration Company</td>
</tr>
</tbody>
</table>

### Technical Programme

**Tuesday 12 April • 1600–1730**

#### 33T Managing Community Issues Before They Escalate

**Lysefjorden A**

**Session Chair:** Yadaira Orsini, International Alert and Michael Seymour, Shell

Operational activities, even those achieving the highest standards, can have varied social and environmental impacts, and can raise interest, concerns and complaints. Many companies provide channels for affected individuals or communities to raise questions or concerns with a company and to have them addressed in a prompt, fair and consistent manner. Applied effectively, such channels can offer efficient, timely and low-cost forms of conflict resolution for all concerned parties. Used as integral elements of broader stakeholder and community engagement, they can enhance local relationships and can have a positive impact on operational plans, schedules and costs.

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<tr>
<td>1600</td>
<td>179278</td>
<td>Oil and Gas Industry Learning Project On Community Grievance Mechanisms S. Boladeras, BG Groups E. Wils, BP; H. Murphy, IPMA</td>
</tr>
<tr>
<td>1630</td>
<td>179228</td>
<td>The Potential of Local Community Compensation for Hosting Facilities E. Ter Mors, J. Groeneweg, Leiden University</td>
</tr>
<tr>
<td>1700</td>
<td>179382</td>
<td>Preventing Claims and Grievances in Pipeline Projects: Using a Holistic Approach and Data Management Systems to Enhance Stakeholder Management S.D. Vox, C. Smith, Royal Haskoning DHV</td>
</tr>
</tbody>
</table>

#### 34P Application and Limitations of Remote Sensing Technologies

**Uburen**

**Session Chair:** Sandra Barber, Chevron

This panel session will provide discussion on the application of emerging technologies in remote sensing and data collation in aerial, surface and subsurface environments. The panel will elaborate further on this subject area, including the challenges and limitations posed by the technology and the regulatory approvals for use.

Moderator: Paul Shone

Speaker: Brian Anderson

Speaker: Alex Gow

Speaker: Tracy Lamb
Tuesday 12 April • 1600–1730  Snonuten

35P Increasing Risks from Psychosocial Factors in Oil and Gas

Session Chair: Knut Jørgen Amtzen, Statoil

This session will be focused on improving knowledge and awareness on industry specific psychological issues like working in remote operations, cultural issues, changes from recession and downsizing, sharing incident statistics from global studies, providing insight into current global, regional and local requirements and legislation, key strategies to prevent impact from psychosocial issues in the workplace, ways to improve overall resilience.

Moderator
Erik Bjerkebek
Statoil

Speaker
Ian Arnold
Independent

Speaker
Linn Iren Bergh
International Alert

Wednesday 13 April • 1030–1200  Mastrafljorden A

36P FPIC; Learnings to Date

Session Chairs: Jonathan Motherwell, JTM Associates and Helen Murphy, PIECA

The oil and gas industry and Indigenous Peoples have increasingly come into contact over the past few decades as the search for new oil and gas resources has led to more exploration and development in lands that Indigenous Peoples traditionally occupy or customarily use. These distinct social groups require special consideration from the companies which impact their territory and livelihoods. Free, prior and informed consent (FPIC) is a process whereby affected Indigenous Peoples have the free choice, based on sufficient and timely information concerning the benefits and disadvantages of the project, of whether and how these activities occur, according to their systems of customary decision-making. Although there is a certain amount of consensus between governments, NGOs and companies on the need for FPIC with Indigenous Peoples in negotiation and decision-making processes, the concept of consent is hard to implement. Many governments question the right to consent for Indigenous Peoples over oil and gas developments of national significance in their territories, while many companies have concerns over the practicalities of applying and enforcing FPIC. As a result of this ongoing debate FPIC is interpreted differently in different contexts, creating an uncertain operating environment for companies. The panel will seek to better understand Free, Prior and Informed Consent (FPIC) and its concepts, and the varied interpretation and practical approaches related to it bringing in views from oil and gas, mining, international finance institutions and non-governmental organisations.

Moderator
Jonathan Motherwell
JTM and Associates

Speaker
Yadaira Orsini
International Alert

Speaker
Karin Nunan
ERG

Speaker
Anupama Mohan
Statoil

Speaker
Rosa Orellana
IFC

Wednesday 13 April • 1030–1200  Mastrafljorden B

37T Management of Environmental Risk

Session Chairs: Ian Sealy, Schlumberger and Margrethe Haahr, Dong Energy

This session will present a series of papers that discuss and examine environmental and regulatory risk factors and methods for risk reduction and risk management.

TIME  PAPER #  PRESENTATION
1030  179205  Development and Implementation of a Risk-Based Environmental Management System in an Oilfield Services Company
I.M. Sealy, H. Scott, K. Walker, Schlumberger

1100  179353  Is There Scientific Evidence to Support the Selection of Hydraulic Fracturing Rules?
D. Campin, The University of Queensland

1130  179300  Managing Environmental Challenges During The First Exploration Well For Shale Gas In Denmark
C. Chanteau, C. Eygun, R. Keown, Todal E&P

Wednesday 13 April • 1030–1200  Mastrafljorden C

38T Process Safety Management: Tools and Technology

Session Chairs: Fiona Aoun, Chevron and Matthew Zerafa, Riskbytes

With the evolution of process safety in the oil and gas industry, developments and advances in technology and risk assessment tools have improved operational safety and risk based decision making. This session discusses the challenges in technology development for high-risk environments and their operational risk benefits, and the importance of applying innovation to enhance process safety tools in order to make more informed decisions.

TIME  PAPER #  PRESENTATION
1030  179238  Next Generation 3D-Dropped Object Risk Assessment • J. Fossan, J. Paapas, S. Nodland, Lloyd’s Register Consulting—Energy AS; S. Sundar Dhanabalan, A. Bahgupi, A. Shim, Lloyd’s Register Energy Global Technology Centre

1100  179376  A Robot That Removes Operators From Extreme Environments
I. Peerless, IPKA Consultancy; A. Semboldowicz, B.H. Mulder, Shell Global Solutions

1130  179316  Challenges With Free Fall Lifeboat Performance in Rough Weather; Analyzes, Improvements and Operational Risk Reducing Measures for Use of Free Fall Lifeboats on the Norwegian Continental Shelf
E. Myrseth, L. Tronstad, Statoil ASA

Wednesday 13 April • 1030–1200  Lysefjorden B

39T Measure, Learn and Manage

Session Chairs: Antoine Augustin, ENGIE and Kirsty Walker, Schlumberger

A key element in the HSE-Management System is the feedback loop where operational information, including HSE performance and learning from events, is used to validate and improve system performance. The session considers three important sources of information related to human factors, near misses and environmental performance.

TIME  PAPER #  PRESENTATION
1030  179207  Managing the Human Factor in the Incident Investigation Process
J.M. Burggraaf, Delft University of Technology; J. Grevenweg, Leiden University

1100  179200  Recovering Business Value From Near Misses • N. Ritchie, vPSI Group LLC

1130  179251  Environmental Performance in the E&P Industry: Data for 2013 and 2014
J. Campbell, W.M. Poore, International Association of Oil & Gas Producers (IOGP)
### Wednesday 13 April • 1030–1200

#### Lysefjorden A

**4OT Social Risk and Energy Access: Recognising the Links**

**Session Chairs:** Paul Krishna, ExxonMobil and Krish Ravishankar, Oxy

Access to energy resources requires assessing social risk, identifying and managing issues to ensure and maintain a social licence to operate in early days, project design, and thorough operations. There is also an impact on the potential environmental risks in relation to energy access. This has transformed engagement between companies and their stakeholders including advocacy groups, NGOs, academics, scientists and politicians. This session will explore resource energy access and the links to social responsibility issues in shale oil and gas, mining, and the Arctic. This linkage must be managed very carefully for a positive outcome and social responsibility is a large part of the conversation. The presenters will showcase and present lessons learned and methodologies that highlight the importance of early risk identification to ensure development of competence and understanding of the safety and sustainability challenges, and shows how this approach along with stakeholder engagement has led to safe and efficient operations.

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<th>TIME</th>
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<tr>
<td>1030</td>
<td>179258</td>
<td>Stakeholder Engagement on Shale Gas in Europe: Has It Already Failed? • C. Chaineau, J.K. Lennock, Total E&amp;P</td>
</tr>
<tr>
<td>1100</td>
<td>179409</td>
<td>Issue Management and Sustainability: Lessons from a Major Oil and Gas Development in Madagascar • J.P. Wagner, M. Jones, K. Nash, Plexus Energy</td>
</tr>
<tr>
<td>1130</td>
<td>179325</td>
<td>The Importance of Early Identification of Safety and Sustainability Related Risks in Arctic Oil and Gas Operations • T. Ulvik, C. John-Nilsen, Statoil</td>
</tr>
</tbody>
</table>

### Wednesday 13 April • 1030–1200

#### Uburen

**41P Optimising the Post-Macondo Knowledge Investment in Oil Spill Response Prevention and Preparedness**

The Macondo incident has had far-reaching consequences on the offshore oil and gas industry. Industry has delivered technical and operational innovations to address lessons learned, partly through the use of Joint Industry Projects (JIPs). Regulators have also increased oversight in this area including the 2014 European Union Safety of Offshore Oil and Gas Operations Directive. This session will highlight advances and practical solutions for spill response planning such as technical developments, compliance with new regulations, and operational implementation.

**Moderator:** Robert Cox, IPIECA

**Speakers:**
- Don Holmstrom, Western Regional Office Director, US Chemical Safety Board
- Jon Lay, ExxonMobil
- Astrid Sørensen, Statoil
- Johan Marius Ly, Department for Emergency Response, Norwegian Coastal Administration

### Wednesday 13 April • 1030–1200

#### Snonuten

**42P Embedding Safety Culture Into Drilling Operations**

**Session Chairs:** John Karish, Consultant and Steve Kropil, IADC

Safety is a journey that began decades ago and went through different phases to tackle incidents: engineering, management, systems, certification and “culture.” It is now several years since the concept of a “safety culture” has been successfully introduced into the oil and gas industry. In this panel session, we will try to answer some basic questions that have arisen during this time from operators, drilling contractors, and third parties.

**Speakers:**
- Tony Johnson, Transocean
- Liv Nielsen, Eni Norge
- Tore Sand, Statoil

### Wednesday 13 April • 1300–1430

#### Mastrafjorden A

**43P Speaking Candidly—Social Responsibility in Practice**

**Session Chairs:** Emery Brussert, Social Terrain and Krish Ravishankar, Oxy

When projects go well, we also know that there are aspects that go less well, in relation to social engagement and social impact. How do these fit together, what more could be done, and what could be done better? The extensive experience accumulated by the speakers is worth sharing, and debating. Our panelists believe that a candid exchange will be worth a thousand pages of dense analysis. We welcome all those who have been waiting for an opportunity to hear about concrete real life stories, and to exchange in a dispassionate and concerned manner for the advancement of social responsibility.

**Moderators:**
- Emery Brussert, Social Terrain
- Krish Ravishankar, Oxy

**Speakers:**
- Brian Sullivan, IPIECA
- Drue Ann Whittecar, NOV
- Kelly Moynihan, ExxonMobil
- Barnaby Briggs, Independent Consultant

### Wednesday 13 April • 1300–1430

#### Mastrafjorden B

**44T Oil Spill Preparedness and Response in the Arctic**

**Session Chairs:** John Campbell, IOGP and Steinar Nesse, DNV GL

The Arctic physical environmental conditions and remoteness are major challenges to oil and gas operations. Significant effort is invested by industry to develop improved solutions and performance with regard to spill response. The session will highlight results from the Industry Joint Programme and some case studies on oil spill response planning for the Arctic.

**Speakers:**
- B. Lammerding, ExxonMobil Production Germany
- R. Bryden, S. Gradinger, D. Nijen Twilhaar, T. Paul, Shell
- C. Spansvoll, A. Wenke, G. Brude, K. Solberg, DNV GL; J. Holst-Andersen, Defence Command Denmark

### Wednesday 13 April • 1300–1430

#### Mastrafjorden C

**45T Safety Leadership**

**Session Chairs:** Patrick Hudson, Hudson Global Consulting and Luciano Scataglini, Eni

**Speakers:**
- Re-Energising the Life-Saving Rules • B. Lammerding, ExxonMobil Production Germany
- Getting to Zero—The Perfect HSE Day • K. Solberg, DNV GL; J. Holst-Andersen, Defence Command Denmark
- Safety Coach Concept: Creating a Culture of Learning • B. Lammerding, ExxonMobil Production Germany
### Technical Programme correct as of March 2016

#### Wednesday 13 April • 1300–1430  Lysefjorden B

**46T The Benefits of Collaboration**

**Session Chairs:** Dina Kyukendall, Baker Hughes and Don Smith, Eni

For many years the E&P industry, through trade organisations, standards bodies, joint industry projects and other stakeholder groups, has sought to realise the benefits of working together to address common HSE challenges. The session considers some of the benefits and challenges that have resulted through these types of initiatives, in particular with respect to working with other E&P companies, our contractors and government bodies.

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<th>TIME</th>
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<tr>
<td>1300</td>
<td>179216</td>
<td>The Barents Sea Exploration Collaboration - BaSEC • S. Drangeid, OMV Norge AS</td>
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<tr>
<td>1330</td>
<td>179275</td>
<td>How Can Operators Encourage Contractors to Participate in Reporting Schemes? The Example of the “Improvement-Cards” Scheme and Rewards Catalogue on an Operated Site in Russia • C. Lavigne; G. Kononovalov, Total E&amp;P Russia; A. Meunier, Total S.A.</td>
</tr>
<tr>
<td>1400</td>
<td>179442</td>
<td>The Global Initiative: 20 Years of Government and Industry Cooperation • P. Buck, IPIECA; T. Goebbaas, ExxonMobil; J. Guervana, IPIECA/GGSEA; A. Rhodes, IPIECA/GI WACAF; P. Taylor, IPIECA/OSPRI</td>
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#### Wednesday 13 April • 1300–1430  Lysefjorden A

**47T Time For a Change? Techniques to Enhance Social Performance**

**Session Chairs:** Jonathan Motherwell, JTM Associates and Helen Murphy, IPIECA

A number of examples are covered that describe how social and environmental issues can be addressed through integrated approaches. This covers education and social capital with communities as a classical example of engagement. It can be driven by strong partnerships with lenders, and by more concise and cogent risk and impact assessments.

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<tbody>
<tr>
<td>1300</td>
<td>179482</td>
<td>Enhancing Social and Environmental Performance Through an Integrated Approach • M. Betre, P. Diaz, M.C. Weikel, M. Mora, Conservation International; J. Donovan, Conservation International Liberia; A. Morete, S. Connick, N. Anwar, Chevron</td>
</tr>
<tr>
<td>1330</td>
<td>179373</td>
<td>Together, Better: Stabilizing Stakeholder Relationships And Maintaining Social Capital During Major Economic Decline • L.M. Bucke, Total E&amp;P Canada</td>
</tr>
<tr>
<td>1400</td>
<td>179280</td>
<td>Are We Drowning The Benefits Of Impact Assessments In Paper? • S. Eldoy, A. Myhrvold, StatOil ASA</td>
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</table>

### Technical Programme  correct as of March 2016

#### Wednesday 13 April • 1300–1430  Uburen

**48P How To Be a Biodiversity-Responsible Company in Your Global Activities**

**Moderator:** Jeffrey Jeter, EBIRD

Oil & Gas operations occur in a wide range of natural environments with different degrees of ecological sensitivity, in different operational and socioeconomic contexts, and in compliance with varying regulatory regimes. This panel session will provide perspectives and practical experiences on good practices, innovative conservation concepts and the use of the mitigation hierarchy in order to timely and effectively mitigate all potential impacts on biodiversity and generate conservation benefits in collaboration with key biodiversity stakeholders such as science-based local and international NGOs, Universities and scientific Institutions. Different approaches, challenges and opportunities will be addressed by representatives from NGOs, Oil & Gas industry and consultants.

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<tr>
<th>PAPER #</th>
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<tbody>
<tr>
<td>179465</td>
<td>Advancements in Biodiversity Baseline Assessment and Monitoring Approaches for Enhanced Oil &amp; Gas Performance • L. Viana, M.C. Weikel, J. Blaha, T.H. Larsen, J. Ahumada, Conservation International; R.F. Romer, IPIECA</td>
</tr>
<tr>
<td>179419</td>
<td>What Are The BES Fundamental Principles For Project Planning And Development Throughout The Asset Lifecycle Of Oil And Gas Operations? • S. Connick, Chevron Corporation; P.M. Pedroni, eni; M. Johnston, BP plc; R.F. Romer, IPIECA</td>
</tr>
<tr>
<td>179405</td>
<td>A Cross Sector Approach To Managing Biodiversity Impacts • M. Johnston, CSBl; R.F. Romer, IPIECA</td>
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<td>179418</td>
<td>The Taninthayi Nature Reserve Project as a Model of Compensation of Impacts to Biodiversity • E. Pollard, The Biodiversity Consultancy; R. Victurine, R. Tizard, Wildlife Conservation Society; S. Hlaining, Forest Department</td>
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#### Wednesday 13 April • 1300–1430  Snonuten

**49P Worker Health and Wellness**

**Moderators:** Alexander Barbee, Schlumberger and Phillip Sharples, UnitedHealthcare International

This panel presents an opportunity for six informed speakers to describe and discuss the holistic issues around worker health and wellness. The first part of the panel will focus on the ways in which off-the-job factors, including stress, the camp environment and the fly-in-fly-out commute, affect job satisfaction and performance. The second part of the panel focuses on how management systems can influence corporate decision-making around health resources.

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<tbody>
<tr>
<td>179488</td>
<td>Stress—Impacts on Health and Human Performance • J. Davo-Slreet, J. Kendrick, L. Castillejo, Chevron; M. Grimsley, Health Fitness Corporation</td>
</tr>
<tr>
<td>179247</td>
<td>Fatigue In Fly In Fly Out Operations • D. Flower, BP; L. Arnulf, International SOS; D. Kamarasamy, Petronas; F. Pelat, Transocean/K. Phillips, BHP Billiton; G.D. Reeves, BP; S. Schunder-Tatzberger, OMV; G. Steemrnan, Total; A. Kostareli, IPIECA</td>
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<tr>
<td>179219</td>
<td>A Holistic Approach to Corporate Health and Wellness • R. Tazinn, A.K. Pachyamantalis, Almanorri Specialized Engineering</td>
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<td>179431</td>
<td>The Journey from Epidemiology to Health Analytics • K. Sexton, J.W. Hess, F.A. Bhosari, Shell</td>
</tr>
<tr>
<td>179236</td>
<td>Health Management Contract Guidelines for Clients and Contractors • A. Barbee, Schlumberger; P. Hodginis, ConocoPhillips; P. Sharples, UnitedHealthcare Global; S. Schunder-Tatzberger, OMV; H. Mohamed, Shell; F. Mika, Saipem; D.S. Jones, ExxonMobil; A. Dusadi-Issayanov, FTT E&amp;P; A. Kostareli, IPIECA</td>
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<tr>
<td>179513</td>
<td>Cross-Matching Fitness-to-Work with Assignment to Work Location • G. Cauchi, A. Barbee, Schlumberger</td>
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</tbody>
</table>
### Technical Programme  correct as of March 2016

**Wednesday 13 April • 1500–1630  Mastrafjorden A**

**5OT Protecting Workers’ Health**

Session Chairs: Huma Abbasi, Chevron and Deena Buford, ExxonMobil

Three diverse speakers present novel methodological and technical approaches for minimising adverse exposures for workers in the areas of air emissions, exposure standards and dynamic noise mapping.

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<tbody>
<tr>
<td>1500</td>
<td>179345</td>
<td>Adjustment of Occupational Exposure Limits to Non-standard Work Schedules E. Meleinsmatther, I. Eide, Statoil ASA, RDI</td>
</tr>
<tr>
<td>1600</td>
<td>179237</td>
<td>Noise and Vibration Database on Handheld Tools T.A. Ognedal, Sinus AS; K. Klovning, Norwegian Oil &amp; Gas Association</td>
</tr>
</tbody>
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**Wednesday 13 April • 1500–1630  Mastrafjorden B**

**5IT Oil Spill Preparedness and Response Technology**

Session Chairs: Philippe Jean, INE Consulting and Declan O’Driscoll, Oil Spill Response

Since the Macondo incident in 2010 there have been significant developments in oil spill preparedness, strategies and response technologies. The session will focus on recent developments in mechanical and chemical response methods, and on how these developments are being implemented.

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<td>1500</td>
<td>179440</td>
<td>Oil Spill Detection and Response Using Satellite Imagery, An Insight to Technology and Regulatory Context N.E. Soleng, M. Indregard, Kongskberg Satellite Services, KSAT; M. Skedsmo, KSAT</td>
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<td>Subsea Mechanical Discharge, Adding to the Toolkit of Oil Spill Response Technology P. Brandvik, E. Davies, D.F. Krause, SINTEF Materials and Chemistry; P.A. Boyenst, M. Agrawal, P.J. Evans, BP Exploration Operating Company Ltd</td>
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**Wednesday 13 April • 1500–1630  Lysefjorden B**

**52T Safety Management**

Session Chairs: Uus Arnesen, Statoil and Luciano Scataglini, Eni

Effective Safety Management is the basic principle to ensure an accident free working environment and as such it is one of the fundamental drivers of our business. This session explores a number of strategies that have been put in place to achieve an effective safety management and identify what contributes to safety during different operational activities such as confined space operations, construction activities and drilling operations. It also provides an insight to techniques and methods to reinforce the safety culture through the application of HSE Golden Rules and the reinforcement of non-technical skills to prevent worksite incidents.

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<td>Training and Reinforcing Non-technical Skills Using a Team Behavioural Marker Framework M. Crichton, S. Moffat, L.M. Crichton, People Factor Consultants Ltd</td>
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<td>Construction Site Safety Standardisation A. Akinton, Shell Global Solutions International; J. Barlow, Former Shell employee; E. Cooke, Shell Global Solutions International; W. Fynn, Shell Chemicals Americas Inc.; H. Harsen, Shell Global Solutions (Malaysia) Sdn.Bhd; M. Heim, Shell Global Solutions US Inc; R. Jackson, Shell International Exploration and Production; S. Menes, Former Shell Employee; D. Pendrey, B. Perkins, N. Popat, J. Thomas, Shell International Exploration and Production</td>
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<td>1600</td>
<td>179334</td>
<td>At-Risk Groups In The Norwegian Petroleum Industry—Analysis of Risk Exposure Using Survey Data J. Hegland, PSA; A. Brem, T. Kråkener, SINTEF; J. Thuraalensen, I. Daale, PSA</td>
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**Wednesday 13 April • 1500–1630  Lysefjorden C**

**53T The Journey to Operational Excellence**

Session Chairs: Dina Kuykendall, Baker Hughes and Kirsty Walker, Schlumberger

Organisations continue to seek improvements in their HSE management systems. This session explores the benefits that can result from having an integrated QHSE and Sustainability MS, how focused leadership can deliver benefits in HSE performance, and the importance of identifying and addressing critical issues early and throughout the life cycle of the operation.

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<td>Breakthrough HSE Performance in a Large North American Oil and Gas Business Through Change Leadership and Focus Strategy • B. Dunsmore, H. Ellis, Baker Hughes</td>
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<td>179327</td>
<td>Critical Issues Analytic: Lifecycle Approach for Optimized Execution of Capital Projects E.L. Green, R. Woolson, ERM</td>
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Wednesday 13 April • 1500–1630

**54T Turning Human Rights Principles Into Practice**

**Lysefjorden A**

**Session Chairs:** Paul Krishna, ExxonMobil and Jean Lennock, Total

Oil and gas projects can have a range of impacts—both positive and negative—on the human rights enjoyment of individuals, groups and communities. The United Nations Guiding Principles on Business and Human Rights (UNGPs) have been helpful in providing clarity on the state duty to protect human rights and the business responsibility to respect. They have also provided a common language for human rights and a set of high-level principles as a framework for managing human rights issues and risks. But what do these principles mean in practice?

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1500 179455 Mapping of Oil and Gas Companies’ Policy Commitment to Respect Human Rights  
T.T. Hansen, Nordic Law Group ApS  
1530 179369 Implementation of the UN Guiding Principles in Conflict-Affected Settings: Aligning Human Rights and Conflict Sensitive Approaches  
R. Cieland, Y. Osirin, International Alert  
1600 179330 How Free, Prior and Informed Consent in Mexico Will Make or Break the Geothermal Hydrocarbon Sector  
J. Lashway, P. Athie, K. Nunn, J. Sanchez, V. Copeman, ERM

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Wednesday 13 April • 1500–1630

**55P HSE First … What the Hell Does it Mean?**

**Uburen**

**Session Chairs:** Don Smith, Eni and Davide Scotti, Saipem

We all say “HSE first” but when it comes down to making practical decisions under performance pressure, things may not always pan out as planned. With many different and often competing demands on limited human and financial resources, prioritising decisions and assessing the HSE implications of orders or actions is not easy. The session starts with a short film based on a true story of how “HSE first” policy is difficult to turn into practice—and how the clearest of initial messages, as it travels along the chain of command, can become lost against the background of competing demands. During the session, you are invited to reflect on challenges in translating policy into practice, and the mindset this requires. The panelists will debate these issues and share their experiences of how practical time—and resource constraints can impact on the operator at the “sharp end,” leading to potential HSE risks materialising, despite clear policies.

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**Technical Programme** correct as of March 2016

**56P Learnings and Reflections From Fluctuating Energy Prices**

**Snonuten**

**Session Chairs:** Jonathan Smith, Maersk Oil and Sue Staley, Shell

Historically the energy prices have fluctuated dramatically over short periods of time due to small changes in demand-supply function. Rapid fluctuations have a significant impact on the number of drilling rigs working, the number of projects that are initiated, and the number of people employed within the industry. In cases of both rapidly increasing or rapidly decreasing prices, there is a potential impact on safety due to cost pressure in downturns and skills gaps in upturns. The panel discussion will present the views of operators, drilling contractors, engineering contractors, fabricators, and service companies in responding to these challenges. Further, it will provide a venue for a discussion on the opportunities created by these challenges, and suggest ways in which working together could result in HSE performance improvements aligned with business improvements.

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J. Lennock, F. Athie, K. Nunan, J. Sanchez, V. Copeman, ERM  
1520 179473 Performance of HSE in Africa: Implications of Current Performance for the Future  
J. Lennock, F. Athie, K. Nunan, J. Sanchez, V. Copeman, ERM  
1530 179365 Performance of HSE in Africa: Lessons Learned  
J. Lennock, F. Athie, K. Nunan, J. Sanchez, V. Copeman, ERM  
1540 179340 Performance of HSE in Africa: Lessons Learned  
J. Lennock, F. Athie, K. Nunan, J. Sanchez, V. Copeman, ERM  
1550 179330 Performance of HSE in Africa: Lessons Learned  
J. Lennock, F. Athie, K. Nunan, J. Sanchez, V. Copeman, ERM  
1600 179315 Performance of HSE in Africa: Lessons Learned  
J. Lennock, F. Athie, K. Nunan, J. Sanchez, V. Copeman, ERM

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**TIME**  
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J. Lennock, F. Athie, K. Nunan, J. Sanchez, V. Copeman, ERM  
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<td>P. Buttini, Eri, G. Marcelli, C. Petrella, SAIGEM, J. Deffis, Eni Ghana</td>
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<td>Construction Waste Generation and Minimization for Major Gas Processing Facilities</td>
<td>R. Hefmann, C. Lam, A. Graham, L. Webb, Chevron</td>
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<td>Development of Environmentally Friendly Trace Technology for Monitoring Drilling Fluid Infiltration During Coring Operation</td>
<td>J.L. Cramer, T.B. Nielsen, S. Bohring, Danish Technological Institute; H.T. Torgersen, HC Reservoir Engineering AS; M. Cowling, T. Sidley, Maersk Oil &amp; Gas A/S</td>
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<td>E. Bjernbro, O. Hansen, M.L. Melhus, U. Kleivstad, En Norge AS</td>
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<td>Water and Oil: Sustaining our Future?</td>
<td>C. Yapke, C. Santamaria, Repsol Exploracion S.A.; E. del Estal, E. Marín, Repsol S.A.</td>
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<td>Implementation of the Global Oil and Gas Industry Association’s Biodiversity and Ecosystem Services Management Framework in an Oil and Gas Company</td>
<td>J. Lopez-Plana, C. Santamaria, Repsol E&amp;P</td>
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<td>TRL (Technology Readiness Level) Assessment of DREAM (Dose-related Risk and Effects Assessment Model) to Qualify its Use for Modelling of Produced Water and Drilling Discharges</td>
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<td>B. McCann, Exponent, Inc.; M. Henrion, Lumina Decision Systems, Inc.; B. Bernstein, Consultant</td>
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<td>C. Zhang, ExxonMobil Upstream Research Company; R. Bron, ExxonMobil Development Company; J.M. Gettiff, Chevron North Sea Limited; J.P. Smith, ExxonMobil Upstream Research Company</td>
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S. Westfall, ERM |
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E. Hammann, Total |
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A.I. Ahluwalia, M. Pierce, DNV GL, Det Norske Veritas (USA) Inc. |
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H. Murphy, IPIECA; B. Janus, Total SA; L. Tyson, BP |
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A. Nowosiwsky, ExxonMobil PNG Ltd; J. Moore, Esso Australia Pty. Ltd; D. Hancock,  
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J Libre, TOTAL E&P HSEQ; S. Condemine, TOTAL Gabon
1005 | 179321 | Station 3 | Land Access And Compensation Process During The Exploration And Appraisal Phase In Uganda: A Constant Challenge Against Operational Delays And Compliance With International Best Practices
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E. Poliandt, L. Bennun, The Biodiversity Consultancy
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A. Abu Samah, JKC Australia LNG Pty Ltd
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B. Heide, E. Riis Rasmussen, T. Husebo, Petroleum Safety Authority Norway
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F. Correa, K. Varen Aranguren, Marsanovar Energy Colombia Ltd; A. Mesa, Franklin Covey Colombia
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I.M. Threadgold, Threadgold Safety Management
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<td>Society of Petroleum Engineers</td>
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<td>Statoil</td>
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<td>Taylor &amp; Francis</td>
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<td>United Healthcare International</td>
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<td>Universal Site Monitoring</td>
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<td>Upstream Oil and Gas News</td>
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### Exhibitors

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<tr>
<th>Company Name</th>
<th>Address</th>
<th>Phone</th>
<th>Website</th>
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<tr>
<td>Acorn International, LLC</td>
<td>701 Post Oak Road, Suite 300</td>
<td>281.575.5777</td>
<td><a href="http://www.acornintl.net">www.acornintl.net</a></td>
</tr>
<tr>
<td>ERM</td>
<td>840 West San Antonio Parkway North, Suite 600</td>
<td>210.725.1515</td>
<td><a href="http://www.erm.com">www.erm.com</a></td>
</tr>
<tr>
<td>Bureau Veritas</td>
<td>2 Boulevard Georges</td>
<td>452.684.4199</td>
<td><a href="http://www.bvhsse.com">www.bvhsse.com</a></td>
</tr>
<tr>
<td>Enablon</td>
<td>2 Boulevard Georges</td>
<td>703.777.4500</td>
<td><a href="http://www.enablon.com">www.enablon.com</a></td>
</tr>
<tr>
<td>Europ Assistance</td>
<td>7 Boulevard Hausmann</td>
<td>+33 1 58 34 23 79</td>
<td><a href="http://www.gcs.europa-assistance.com">www.gcs.europa-assistance.com</a></td>
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<tr>
<td>DNV GL</td>
<td>Veritasveien 25</td>
<td>+47 81 71 59 23</td>
<td><a href="http://www.dnv.com">www.dnv.com</a></td>
</tr>
<tr>
<td>Evasion Industry Software B.V.</td>
<td>Lange Vorderberg 3</td>
<td>+31.703.625126</td>
<td><a href="http://www.evasion-software.com">www.evasion-software.com</a></td>
</tr>
<tr>
<td>Exponent, Inc</td>
<td>10850 Richmond Avenue, Suite 175</td>
<td>832.325.5700</td>
<td><a href="http://www.exponent.com">www.exponent.com</a></td>
</tr>
<tr>
<td>Europ Assistance</td>
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<tr>
<td>Halliburton</td>
<td>3000 N. Sam Houston Pkwy N #5210L</td>
<td>281.575.5777</td>
<td><a href="http://www.halliburton.com">www.halliburton.com</a></td>
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</tbody>
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### SPE HSE Events in 2017

Get Involved!

In 2017, SPE will run two conferences, **SPE HSE North Sea Symposium** and the **3rd SPE European HSE Conference**. We have a call for passionate HSE professionals who would like to volunteer to serve and enhance the events’ technical programme.

Serving on these SPE committees enables you to enhance your leadership skills, as well as meeting and working with other HSE professionals within the region. This is a unique opportunity to contribute your knowledge and experience to SPE’s HSE programmes and activities, register today!

To volunteer, please register using SPE’s volunteer platform, [www.spe.org/volunteer](http://www.spe.org/volunteer).

If you have any questions, please contact:

**SPE London**

Tel: +44 (0)20 7299 3300

Email: formslondon@spe.org
Exhibitors

Honeywell Safety Products Nordic AB
Helsingborg, Sweden
www.honeywellsafety.com
Honeywell Industrial Safety offers the broadest range of industrial safety products - from personal protection gear for a worker’s eyes, ears and head, to fall protection harnesses and respiratory protection, software, first-responder gear and toxic and combustible gas monitors that protect the lives of workers.

IADC (International Assn. of Drilling Contractors) 212
10370 Richmond, Ste. 769
Houston, United States
www.drillingcontractor.org +1.713.292.1946
Founded in 1940, IADC’s mission is to improve industry health, safety and environmental practices; advance drilling and completion technology; and champion responsible standards, practices, legislation, and regulations that provide for safe, efficient, and environmentally sound drilling operations worldwide.

International Association of Oil & Gas Producers 512
40 Basinghall Street
London, United Kingdom
www.iogp.org +44.020.3763.9700
The International Association of Oil & Gas Producers (IOGP) is the voice of the global upstream industry. Oil and natural gas continue to provide a significant proportion of the world’s energy to meet growing demands for heat, light and transport. Our members produce more than a third of the world’s oil and gas. They operate in all producing regions.

International SOS 306
4 Abercrombie Court
Westhill
Aberdeenshire, United Kingdom
www.internationalsos.com 1224270961
International SOS is the world’s leading medical and travel security risk services company. We care for clients across the globe, from more than 850 locations in 92 countries. Our expertise is unique; more than 11,000 employees are led by 4,400 doctors and 200 security specialists. Teams work night and day to protect our members.

Ion Science Ltd. 612
The Way
Fowlmere, United Kingdom
www.ionscience.com +44 (0) 1763290477
ION Science manufacturers leading gas detection instrumentation for a wide range of industries. Our portfolio consists of handheld, fixed, personal and portable PID detectors for the fast, accurate detection of volatile organic compounds (VOCs) using ground-breaking PID sensor technology with ultimate resistance to humidity and contamination.

IPIECA 711
14th Floor
City Tower, 40 Basinghall Street
London, United Kingdom
www.ipieca.org 020.7633.2388
IPIECA is the global oil and gas industry association for environmental and social issues. It develops, shares and promotes good practices and knowledge to help the industry improve its environmental and social performance; and is the industry’s principal channel of communication with the United Nations.

JGC Corporation 407
Minato Mirai
Nishiku, Japan
www.jgc.co.jp 81.45.682.8505
The JGC Corporation founded in 1928 with over 20,000 oil and gas projects successfully executed in more than 70 countries. JGC is the leading contractor of mega-sized projects such as for LNG, GTL, refinery plants worldwide. It continuously meets the client’s HSE risk management requirements through high-level engineering and project management expertise.

Mann Tekk 505
Box 126
Maribased, Norway
www.mann-tek.com
Mandizup Integrated Services provides healthy environment to the work force on remote sites in Africa. Our local knowledge and support services enable us to devise straightforward on-the-spot solutions, despite the complexity of some areas, at unbeatable prices.

Medequip 413
4 rue du Puech Cabrier
Le Cres, France
www.medequip-integrated.com
Medequip Integrated Services provides healthy environment to the work force on remote sites in Africa. Our local knowledge and support services enable us to devise straightforward on-the-spot solutions, despite the complexity of some areas, at unbeatable prices.

SPE African Health, Safety, Security, Environment and Social Responsibility Conference and Exhibition
Guided by History, Shaping the Future: Protecting People and the Environment in Africa
Mövenpick Ambassador Hotel
18–20 October 2016 / Accra, Ghana

Visit www.spe.org/events/hsea/2016 and learn more.
Medgate

95 St Clair Ave W Suite 1700
Toronto, Canada
www.medgate.com

Medgate is the industry’s leading Environmental Health and Safety software solution, used by health & safety professionals across a wide range of industries around the world. Our software is developed and implemented by accredited EHS professionals with real world experience.

Mintra Training Portal

Storgata 1, 0155 Oslo
www.mintra.no

MIX Telematics

PO Box 12377
Skilledenboch
Western Cape Town, South Africa
www.mixtelematics.com

Founded in 1996, MIX Telematics is a leading global provider of fleet and mobile asset management solutions. We have offices in South Africa, United Kingdom, United States, Uganda, Brazil, Australia and United Arab Emirates. MIX Telematics shares are publicly traded on the Johannesburg Stock Exchange (JSE: MIX) and on the New York Stock Exchange (NYSE: MIXT).

Offshore Media Group

Strandgård 223, Bergen, Norway
www.offshoremediagroup.com

Offshore Media Group (OMG) is Norway’s foremost commercial provider of conferences and exhibitions for the Norwegian oil and gas industry including the annual oil exhibition Offshore Technology Day’s (ODT). In 2014 the Society of Petroleum Engineers and OMG formed a working relationship to reinforce and support the educational content with ODT and to promote further the two company’s globally aligned goals in the dissemination of technical knowledge to its combined customers and membership base operating in the Norwegian Continental Shelf via key networking and learning events as well as conferences and exhibitions.

Oil Spill Response Ltd

Lower William Street
Southampton, United Kingdom
www.oilsplresponse.com
+44 (0)23 8033 1551

Oil Spill Response Limited (OSRL) is the largest international industry funded co-operative and global provider of oil spill response and preparedness services, wholly owned by 44 of the most responsible and environmentally committed oil and energy companies. OSRL has responded to over 120 oil spill events in the past five years.

Preisig AS

Midtbyenveien 2
4313 Sandnes, Norway
www.preisig.com

Presig Solutions AS is a Norwegian enterprise owned enterprise software development company. We have over 20 years oil & gas industry focused experience from complex systems integrations, database, business intelligence and specialist enterprise management solutions. Established in 2003 with the former company iSolutions management buy-out, the company changed name to Presig Solutions AS in 2010.

Remote Medical International

4259 23rd Ave W. #200
Seattle, United States
www.remotemedical.com
1.706.935.0399

Remote Medical International (RMI) provides customers with integrated medical solutions for unconventional environments worldwide. From medical support, telemedicine, and remote medical training to consulting services and equipment and pharmaceuticals, the RMI team works to provide solutions that meet and exceed the unique needs of their clients.

Ringers Gloves

Vesterhavsgade 153
Esbjerg, Denmark
www.ringersgloves.com
281.935.5250

Founded in 1996 on the principles of passion, quality, and the commitment to hand safety, Ringers Gloves has evolved into the leading global provider of safety gloves. Our safety gloves are specifically designed and developed for many industries. When it comes to understanding hand injuries and hand safety solutions, you can trust Ringers Gloves.

Royal HaskoningDHV

Laan, Amersfoort, Netherlands
www.royalhaskoningdhw.com

Safety Devices International Ltd

1 Enterprise Court
Studlands Park Avenue
New Amrket, United Kingdom
www.safetydevices.com
44.0.1638.561743

Safety Devices International Ltd design and manufacture leading roll cages/ROPS and automotive products for customers around the globe. We are focused on producing exceptional safety products for the automotive industry whether it be for sport, leisure or business use. Specific products are made for a range of different markets.

Schlumberger Norway

www.slb.com

Schlumberger is the world’s leading supplier of technology, integrated project management and information solutions to customers working in the oil and gas industry worldwide. Working in more than 85 countries, Schlumberger provides the industry’s widest range of products and services from exploration through to production.

Society of Petroleum Engineers

40/44 Clipston Street
London, United Kingdom
www.spe.org
+44 207 299 3309

The Society of Petroleum Engineers (SPE) is a not-for-profit professional association whose members are engaged in energy resources development and production. SPE serves more than 143,000 members in 137 countries worldwide. SPE is a key resource for technical knowledge related to the oil and gas exploration and production industry and provides services through its publications, events, training courses, and online resources at www.spe.org

Statoll

Forusbeen 50
4039 Stavanger
Stavanger, Norway
www.statoll.com

Statoll is an international energy company with operations in 37 countries. Our ambition is to be recognised as an industry leader in HSE. Our strategic focus shall always aim for safeguarding our people, assets, and environment from facing accidents or incidents.

Taylor & Francis

Tower 4-4 Park Square Milton Park
Abingdon, United Kingdom
www.taylorandfrancis.com
0207.017.2400

Taylor & Francis boasts a growing & high calibre journal portfolio publishing Health and Safety papers, a wide range of other engineering scholarships. Our journals are edited by some of the most prominent academics in the field and offer a variety of accommodating options for authors publishing with us. Visit our booth to browse our extensive portfolio of books and journals.

www.universalsitemonitoring.com.au

Universal Site Monitoring

PO Box
Darwin, Australia
www.universalsitemonitoring.com.au

The Personal Safety Monitor (PSM) is the first fully integrated device of its kind, providing a complete worker safety solution. The PSM allows two way communication, real-time oversight of physiological & environmental conditions including gas exposure and provides the location of the wearer to a remote, safe operator.

Upstream Oil and Gas News

Reidar Berges gate 9
2nd Floor
4013 Stavanger
www.upstreamonline.com
(+47) 51 85 91 50

Upstream is the world’s leading paid-for oil and gas industry news and business intelligence source. It is read by 35,000 influential executives across 108 countries. The business philosophy is to generate and distribute quality independent news and insight on the global oil and gas industry. With an experienced team of 33 reporters located across 14 locations around the world, Upstream can provide the unbiased, independent journalism that business leaders have come to depend on to fill their news and information needs. Upstream publishes a weekly newspaper, available on AAP, quarterly technology magazine and 24/7 digital news coverage.

www.universalsitemonitoring.com.au

Universal Site Monitoring

PO Box
Darwin, Australia
www.universalsitemonitoring.com.au

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### Media Supporters Directory

**British Safety Council**  
70 Chancellors Road  
London  
W6 9RS UK  
+44 (0)20 3510 8355  
www.britsaf.org  

Safety Management, a monthly magazine, (and website) publishes news and features related to health, safety and environment. It is aimed at anyone with health and safety responsibilities who needs to stay informed about the latest news, legislation and best practice in the field and other experts on occupational health or people who are interested in health and safety issues. Its combination of relevant and thought-provoking news, features, profiles and opinions ensures that readers in all industries and business sectors are kept aware of the key health and safety developments. It is distributed to our more than 7000 national and international readers and has an audience of around 30,000 readers through the newsletter and website.

**Hazard Ex**  
IML Group plc  
Blair House  
High Street  
Tonbridge  
Kent TN9 1BQ  
+44 (0) 1732 539990  
www.hazardsonthenet.net  

HazardEx is the brand name for a suite of media products dedicated to the provision of the latest information specifically relevant to those companies and individuals responsible for safe operations within hazardous area environments around the world. Content focuses on factors affecting the safe installation and operation of equipment within potentially explosive atmospheres, as well as background industry intelligence for those involved in the sector all around the world. The Journal, website, eNewsletter & App enables companies and individuals from a wide range of industry sectors to access essential information on hazardous area operations and is a vital tool to help ensure compliance with the latest hazardous area regulations and standard systems, including DSEAR, ATEX and IECEx.

**Oilfield Technology**  
Palladian Publications  
15 South Street  
Farnham  
Surrey  
GU9 7QU  
UK  
+44 (0)1252 718 999  
www.energyglobal.com/magazines/latestissue/oilfield-technology.aspx  

Oilfield Technology covers all facets of the global upstream oil and gas sector: everything from exploration, to drilling, to production, and final decommissioning. This globally distributed publication offers its readership of industry professionals a host of quality content in the form of technical editorial, regional analysis, industry news, and more.

**Roustabout**  
Suite 1, International Base  
Greenwell Road  
East Tullos  
Aberdeen AB12 3AX  
Scotland  
+44 (0) 1224 876582  
www.energyintemat.com  

Roustabout Energy International is a monthly trade publication for the international energy sector. Its main news focus is on oil, gas and renewable energy and it is available in print and online. Each issue carries current news and features relating to new technology, products, services and people in the industry.

**Upstream Oil and Gas News**  
Reider Berges gate 9  
2nd floor  
4033 Stavanger  
(+47) 51 85 91 50  
www.upstreamonline.com  

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### Upcoming HSE SPE Events

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<thead>
<tr>
<th>Event</th>
<th>Date</th>
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<tbody>
<tr>
<td><strong>SPE Health, Safety, Security, Environment, &amp; Social Responsibility Conference - North America</strong></td>
<td>18 - 20 Apr 2017</td>
<td>New Orleans, Louisiana, USA</td>
</tr>
<tr>
<td><strong>SPE North Sea HSE Symposium</strong></td>
<td>2017</td>
<td>Europe</td>
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<tr>
<td><strong>SPE European HSE Conference</strong></td>
<td>2017</td>
<td>Europe</td>
</tr>
<tr>
<td><strong>SPE International Conference and Exhibition on Health, Safety, Security, Environment and Social Responsibility: Sustaining our Future through Innovation and Collaboration</strong></td>
<td>2018</td>
<td>Middle East</td>
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