PROTECTING PEOPLE, ENVIRONMENT, ASSET, AND REPUTATION—ARE WE PREPARED?

THE 7th SPE MIDDLE EAST HEALTH, SAFETY, ENVIRONMENT & SUSTAINABLE DEVELOPMENT CONFERENCE & EXHIBITION

22–24 September 2014
Qatar National Convention Centre, Doha, Qatar

Held under the patronage of
H.E. Dr. Mohammed Bin Saleh Al-Sada, Minister of Energy and Industry, Qatar

www.spe.org/events/mehse
## SCHEDULE OF EVENTS

### Sunday, 21 September 2014

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
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<tbody>
<tr>
<td>1600–1800 hours</td>
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### Monday, 22 September 2014

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<tr>
<td>0730–1800 hours</td>
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<tr>
<td>0900–1000 hours</td>
<td>Opening Ceremony</td>
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<tr>
<td>1000–1100 hours</td>
<td>Exhibition Opening, Coffee Break, and Knowledge Sharing ePoster Session</td>
</tr>
<tr>
<td>1000–1800 hours</td>
<td>Exhibition</td>
</tr>
<tr>
<td>1100–1230 hours</td>
<td>Executive Plenary Session: Protecting People, Environment, Asset, and Reputation—Are We Prepared?</td>
</tr>
<tr>
<td>1230–1330 hours</td>
<td>Luncheon</td>
</tr>
</tbody>
</table>
| 1330–1500 hours | Panel Session 1: HSE Management (Disaster Management/Crisis Management)  
|          | Session 1: How to Change Culture to Support Operations Effectiveness  
|          | Session 2: Environmental Impact                             |
| 1500–1545 hours | Coffee Break and Knowledge Sharing ePoster Session         |
| 1545–1715 hours | Panel Session 2: Business Case for Managing Health  
|          | Session 3: Safety Culture and Behaviour Based Safety  
|          | Session 4: Waste Management                                |
| 1715–1800 hours | Welcome Reception                                        |

### Tuesday, 23 September 2014

<table>
<thead>
<tr>
<th>Time</th>
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<tr>
<td>0800–1600 hours</td>
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<tr>
<td>0800–1600 hours</td>
<td>SPE Regional University Student Programme—HSE: A Way of Life</td>
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</table>
| 0830–1000 hours | Panel Session 3: Climate Change  
|          | Session 5: Emergency Response  
|          | Session 6: Work Force Welfare                            |
| 0900–1700 hours | Exhibition                                                  |
| 1000–1045 hours | Coffee Break and Knowledge Sharing ePoster Session         |
| 1045–1215 hours | Panel Session 4: Establishing Organisational Belief in HSE  
|          | Session 7: Human Factors                                  |
|          | Session 8: Produced Water Management                       |
| 1215–1315 hours | Luncheon                                                   |
| 1315–1445 hours | Panel Session 5: Sustainability Reporting Within Middle East  
|          | Session 9: Process Safety and Integrity                    |
|          | Session 10: Coral Preservation                             |
| 1445–1530 hours | Coffee Break and Knowledge Sharing ePoster Session         |
| 1530–1700 hours | Session 11: Safety in Land Transport and Support Base  
|          | Session 12: Air Quality                                   |
|          | Session 13: Health I                                      |

### Wednesday, 24 September 2014

<table>
<thead>
<tr>
<th>Time</th>
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<tbody>
<tr>
<td>0800–1700 hours</td>
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</table>
| 0830–1000 hours | Panel Session 6: Best Practices in Water Management  
|          | Session 14: Oil Spill Management  
|          | Session 15: Health II                                    |
| 0900–1700 hours | Exhibition                                                  |
| 1000–1045 hours | Coffee Break and Knowledge Sharing ePoster Session         |
| 1045–1215 hours | Panel Session 7: Process Safety in the Middle East (Includes Safety Case Studies and Asset Integrity)  
|          | Session 16: Sustainability and Projects Management        |
|          | Session 17: Water Conservation                             |
| 1215–1315 hours | Luncheon                                                   |
| 1315–1445 hours | Session 18: Marine Impact                                  |
|          | Session 19: Social Performance                             |
|          | Session 20: Safety Assurance Programme                     |
| 1445–1515 hours | Closing Ceremony                                           |
The Opening Ceremony of the 7th SPE Middle East Health, Safety, Environment & Sustainable Development Conference & Exhibition will include remarks by His Excellency Dr. Mohamed Bin Saleh Al-Sada, Minister of Energy and Industry of Qatar; Saif Al Naimi, Conference Chairman and Director; HSE Regulations and Enforcement, Qatar Petroleum; Jeff Spath, 2014 SPE President.

Attendance will include senior management from major petroleum related companies, representatives from government ministries and departments, and engineering and technical industry professionals.

EXECUTIVE PLENARY SESSION

Protecting People, Environment, Asset, and Reputation—Are We Prepared?

Moderator: Saif Al Naimi, Director, HSE Regulations, Qatar Petroleum

For the past few years optimising business performance, reducing risk, protecting people, and the environment has become a major challenge for the oil and gas industry. All environmental, safety, and risk management challenges are unique, and as such, need a customised approach. One is tailor-made to meet the needs; another is to deliver a measurable positive outcome combined with outstanding credentials and technical excellence at the same time.

By integrating environmental innovation and engineering services along with safety and risk management, it will help to underpin the safe operation, environmental sustainability, and ultimate success of oil and gas companies.

Are we truly prepared to protect the People, Environment, Assets, and Reputation? And how can we improve? Across the corporate world we are seeing a growing focus on good governance and HSE performance as a source of both risk and potential competitive advantage. Organisations need to demonstrate that their duty of care has been met to increase the safety and environmental requirements.

This plenary session will address these issues:

- How can we demonstrate a better management and mitigation of safety and environmental risks?
- How can we perform more effectively, develop and implement a more efficient organisation to improve environmental and safety performance?
- How can we optimise operational efficiency across our portfolio in order to increase output from limited resource and protect our assets?

Panelists:

- Jassim Abdullah Jassim Al-Mohannadi, Onshore Operation Manager, Qatargas
- Jim Zimmerman, Vice President, ExxonMobil Research Qatar
- Steve Norton, General Manager Health, Safety, Environment and Social Performance, Qatar Shell
- Tom Knude, Director, HSE Standards and Performance, Halliburton

Panel Session 1: HSE Management (Disaster Management/Crisis Management)

Moderator: Elie Daher, Executive Vice President and Chief Marketing Officer, United Safety International

The performance of an HSE management system is most routinely evaluated for its ability to deliver desired results against regular, expected variables. However, a more critical test of the capability of an HSE management programme occurs in the face of natural and man-made disasters and mass casualty incidents. How well an organisation is prepared to manage unpredictable catastrophic events can mean the difference in success or failure of the entire organisation. This panel session will cover how organisations can decide on the appropriate level of HSE disaster management planning, what form that planning should take, which elements of HSE disaster management planning should always be considered, and how organisations can develop critical operational approaches to HSE disaster management. The panel comprises representatives from the oil and gas industry and from the public health sector.

Panelists:

- David Evans, Global Head of Emergency Management and Response, Petrofac
- Ibrahim H. Fahmy, Senior Marine and HSE Specialist, ZADCO
- Qudsia Huda, Technical Officer, Preparedness and Risk Reduction, WHO
- Steve Flynn, Group Head of Risk Learning and HSSE, Safety and Operational Risk, BP Sunbury ICBT
- Walid Abu Galala, Consultant Emergency Medicine and Disaster Medicine, HMC

Panel Session 2: Business Case for Managing Health

Moderator: Israr Ahmed, Health Manager, Shell

This panel will focus on discussions around managing the health of our workforce using a ‘holistic approach’, and its impact on the overall performance. It will also focus on what is required by the industry to sustain healthy, high performing people at the workplace. Managing health at the workplace yields benefits to the business. Firstly, there are direct benefits in terms of improved human performance resulting in better HSSE, quality, and productivity performance. Secondly, there are indirect benefits in terms of positive reputational spin-offs towards governments and stakeholders. A comprehensive holistic approach in terms of the physical,
ment, and psycho-social domains at both an individual level and an organisational level makes perfect business sense. Health is about being happy and thriving, about being the best you can be. Having sound ‘holistic health’ management in place not only translates to good numbers but also shows the business is committed to doing the right thing, caring for its most valued asset—and its people. And that is good business!

Panelists:

Ahmad Al-Shatti, Consultant Occupational and Environmental Medicine Director, Occupational Health Directorate, Ministry of Health, Kuwait

Franz Mika, Oversees Health Manager, Saipem

Nigel Shanks, Chief Medical Officer, RasGas

Panel Session 3: Climate Change
Moderator: Onosteike Cordilia Elogie, Specialist (Climate Change), Qatar Petroleum

Science says our world is changing due to our industrial activities; the management of such activities poses a challenge and has given birth to new environmental regulations, technologies, and innovations as well as debates which are greatly influenced by politics. A thousand and one questions come to mind whenever the issue of climate change comes up especially in an energy intensive industry like ours. Most of us wonder what management options are available to us and considering our type of industry, some of us already feel the impact of climate change but the key challenge that we face is how to meet ever-increasing global energy demands with lower GHG emissions to attain the sustainable future that we want. Avoiding the unmanageable (mitigation) and managing the unavoidable (adaptation) are the key management options available. However, due to the complex and unique structure of the oil and gas industry, these options are enveloped with challenges. This session takes a look at some climate risks that the oil and gas industry faces, challenges of mitigating and the options available to us and considering for example:

- Will workers from a national culture which engenders a strong respect for authority make them less likely to intervene when they observe at-risk behaviours?
- Are incident investigations perceived as learning opportunities or merely to apportion blame?
- Will workers from strong masculinist cultures admit their errors let alone report them?

Panelists:

Ian James, Partner and Co-Owner, WK Group

Ivano Iannelli, Chief Executive Officer, Dubai Carbon Centre of Excellence (DCCE)

Kaushik Deb, Advisor (Environmental), RasGas

Mark Suttcliffe, Project Officer, Natural Science Section, UNESCO Doha Office

Panel Session 4: Establishing Organisational Belief in HSE
Moderator: Randy Stadler, Chief Safety, Environment, and Quality Officer, Qatargas

It can be argued that establishing an excellent safety culture underlines an organisation’s commitment to great health, safety, and environmental performance. Professor Patrick Hudson, renowned expert in the field of safety culture, has defined the ideal safety culture as including the following characteristics:

- Informed: a culture in which everyone is prepared to report errors and near misses
- Mindful: everyone thinks about what could go wrong; for themselves and their co-workers
- Learning: lessons from incidents are acted upon quickly, effectively, and sustainably
- Fair: a ‘just culture’ where there is an atmosphere of trust present and people feel they can report errors and near misses without being blamed
- Respectful: where individuals, regardless of their level in the organisation, feel that if they have something to contribute they will be listened to

This panel will discuss the barriers that companies, both internationally and regionally, encounter in addressing the characteristics above, considering for example:

- How does a company’s diverse personnel demographic, with attendant disparities in risk tolerance established through environmental factors present during an individual's childhood, affect the founding of a consistent culture?
- Do different styles of management, especially in relation to front line supervision, imported from the context of an individual’s society, make this task more difficult?
- Is the introduction of more safety professionals in the workforce likely to generate the desired level of mindfulness or allow others to abdicate personal responsibility for safety on the basis that ‘that’s the safety officer’s job’?

Panelists:

Andrew Wigton, Research Director, ExxonMobil Research Qatar

Abigail Bralee, Construction/Commissioning HSE Interface Leader, Shell

Elie Daher, Executive Vice President and Chief Marketing Officer, United Safety International

Petrus Van Rensburg, HSE Manager, Oryx GTL

Wells Grogan, Vice President HSE, Maersk Oil

Panel Session 5: Sustainability Reporting Within Middle East
Moderator: Mahesh Patel, Assistant Manager, Business Strategies, Qatar Petroleum

Sustainability can be characterised as the potential for long-term preservation of society, well-being, culture, living standards, etc. which has environmental, economic, and social dimensions. This panel will focus on organisational reporting that gives information about economic, environmental, social and governance performance in the Middle East. There will be an overview of the recent sustainability reporting effort, led by QP with the support of the venture partners and operators, in Qatar. The report reveals a significant increase in sustainability reporting over the last two years, both in terms of the number of reports submitted and quality of reporting. QP has been actively compiling information, noting trends, positive progress and gaps to consider. Some generalisations regarding the main aspects covered in the Middle East sustainability reports will be discussed and the potential topics include governance (i.e. business ethics, standards, conduct), safety and health in the workplace, environmental performance, considerations for global initiatives (i.e. climate change), industrial development, community engagement, and investment.

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Panelists:

Darin Rovere, President, Sustainability Excellence

Graham Johnson, Environment Protection Team Leader, ADMA-OPCO

Gwen Folland, Group Head Corporate Social Responsibility, Petrofac

Patrick Linke, Professor of Chemical Engineering, Texas A&M University at Qatar

Moderator: Emmanuel Garland, Senior HSE Adviser, Total

Panel Session 6: Best Practices in Water Management

Moderator: Emmanuel Garland, Senior HSE Adviser, Total

Panelists:

Randa Al Nabulsi, Water Management Team Leader, Petroleum Development Oman

Simon Judd, Professorial Chair in Environmental Engineering, Maersk Oil/ Qatar University

Panel Session 7: Process Safety in the Middle East (Includes Safety Case Studies and Asset Integrity)

Moderator: Brett Doherty, Safety, Health, Environment and Quality Group Manager, RasGas

As a region, the Middle East has sometimes lagged more mature jurisdictions in regulating the oil and gas industry. In the 25 years since the Piper Alpha incident, safety has been given its due importance with the subsequent introduction of the Safety Case regime in the UK, and the parallel development of the Process Safety Management (PSM) approach in North America. Both regulatory frameworks are being considered for adoption in Middle Eastern countries.

This panel will address the following:

- What approach appears to be taking ascendancy around the globe today?
- Has adopting either of these approaches reduced the number of major incidents annually in the relevant jurisdictions?
- In the absence of regulation, what ‘self-regulatory’ approach is recommended for individual companies to mitigate their process safety risk?
- The emerging role of leading and lagging process safety metrics in allowing a company to determine process safety health, and demonstration of such health to a regulator as part of its reporting requirements.
- Is a united process safety regulatory approach in the Middle East (or at least the Gulf) favoured by (i) state regulators, and (ii) companies? How would this be implemented?

Panelists:

Andrew Cowie, Head of Production, Maersk Oil

Darrell Dowd, Vice President, Risk Management Eastern Hemisphere, United Safety

Hasan Husni Abunada, Process and Technical HSE Manager, Shell Qatar

Luc N. Vechot, Assistant Professor of Chemical Engineering, Texas A&M University at Qatar

Saif Al-Rawahi, Technical Safety Engineer, Petroleum Development Oman

THE 2014 SPE REGIONAL UNIVERSITY STUDENT PROGRAMME: HSE: A WAY OF LIFE

HSE in the oil and gas industry is looked at more closely, compared to other industries. In our multi-billion dollar industry, safety incidents, environmental releases, spills, and other incidents have made the headlines for the wrong reasons. We need to realise that even though companies are competing against each other for their share of oil and gas production, maintaining a good HSE record is a common goal we all share. By owning safety, using innovative methods to reduce environmental releases, and improving the health and well-being of our employees, we can show the world that having a good HSE culture benefits everyone. Achieving this at an early stage will ensure that HSE is embedded in the minds of Young Engineers, so it can evolve with them throughout their careers.

This one-day programme will include many team building and challenging activities such as an HSE design project competition. Industry professionals have been invited to share their experiences and knowledge with the students encouraging them to improve and broaden their soft skills before entering the oil and gas workforce.

To find out more or be part of this initiative, contact May Asmer, membership services manager, at masmer@spe.org.

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Glenn Pettitt
Environmental Resources Management

Hamed Al-Kandari
Kuwait Oil Company

Hamed Abdullah Al-Esry
Petroleum Development Oman

Ibrahim H. Famy
ZACCO

James Hamilton
OPITO

Jassim Al Qatan
BAPCO

Steen Gudmann
Maersk Oil

Umesh Dhake
American Institute of Chemical Engineers (AIChE)
## DELEGATE INFORMATION

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<thead>
<tr>
<th>Registrant’s Last Name (Family Name)</th>
<th>Registrant’s First Name (Forename)</th>
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## REGISTRATION COSTS

### NOT AN SPE MEMBER?

Become an SPE member for USD 110 (which includes: one-year membership + one-time entrance fee), or renew your membership for USD 90. As an SPE member you pay the lower member registration fee.

<table>
<thead>
<tr>
<th>SPE Member</th>
<th>USD 845</th>
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<tr>
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<td>USD 995</td>
<td>USD 1,095</td>
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<tr>
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Full conference registrations include all conference sessions, coffee breaks for three days, daily luncheon tickets, and one delegate bag. Student registrations (for students with valid IDs only) include all conference sessions, technical exhibition, and coffee breaks.

### One-Day Registration (please select)

<table>
<thead>
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<th>Monday, 22 September</th>
<th>Tuesday, 23 September</th>
<th>Wednesday, 24 September</th>
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<tr>
<td>SPE Member</td>
<td>USD 450</td>
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<td>Visitor (Exhibition Only)—1 day</td>
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One-day conference registrations include all conference sessions, coffee breaks, and luncheon on the specified day. Student registrations (with valid IDs only) include all conference sessions, technical exhibition, and coffee breaks.

### Additional Tickets

<table>
<thead>
<tr>
<th>Luncheon Ticket (please select date)</th>
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<tr>
<td>Monday, 22 September</td>
<td>Tuesday, 23 September</td>
</tr>
<tr>
<td>USD 70 ( \times (\quad) ) tickets</td>
<td>USD 200 (SPE Member) ( \times (\quad) )</td>
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### TOTAL COST IN USD

| IMPORTANT: All fees paid to SPE are net of taxes. The registration fees in this form do not include any local or withholding taxes. All such taxes will be added to the above-mentioned registration fees in the invoice. |

### PAYMENT AND CANCELLATION POLICY

Payment can be made by credit cards or bank transfers. All payments should be made in USD.

<table>
<thead>
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<td>Visa</td>
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If you cancel before 23 August 2014, you will receive a full refund less USD 100. If you cancel after 23 August 2014, you will not be eligible for a refund.

No refund will be given if a registered delegate fails to attend the conference.

SPE must receive cancellation requests in writing by 23 August 2014, by fax on +971.4.457.3164, or by email to formsdubai@spe.org. |
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