

**Sneak Preview**



**UGAS**

**SPE Middle East Unconventional Gas  
Conference and Exhibition  
31 January–2 February 2011**



Muscat

Oman

**Under the patronage of  
His Excellency Mohammed bin Hamad Al Rumhy,  
Minister of Oil and Gas, Sultanate of Oman**



**Unconventional and Tight Gas:  
An Emerging Player in the Worldwide Energy Portfolio**

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Society of Petroleum Engineers

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The SPE Middle East Unconventional Gas Conference and Exhibition (UGAS) will tackle industry-standard levels of technology and their limitations with regards to harvesting “unconventional gas” resources and will focus on the latest forefront technology of unconventional gas. UGAS will also shed light on the importance of these natural gas resources that were historically overlooked in search of more economical, conventional reserves.

## Opening Ceremony Monday, 31 January 2011, 0930–1030 hours

The conference will be officially inaugurated by key dignitaries and industry executives. Members of local and regional ministries are invited to officiate the opening ceremony.

## Panel Session 1: The Hunt for Unconventional Gas: Where and How? Monday, 31 January 2011, 1100–1300 hours

**Moderator:** Martin Stauble, Exploration Director, Petroleum Development Oman

Unconventional gas resources have largely been off the radar screen and to a certain extent are overlooked and understudied, with the exception of North America. These unconventional resources including basin centred gas, tight sands, coalbed methane and shale gas represent a large portion of remaining natural gas resources. Increased exploitation of these resources has been made possible with advancement in technology that enabled operators to boost production from these challenging resources at commercially viable terms.

To meet the projected growth in demand for natural gas estimated by EIA, producers will need to increase annual production by 2035 to a level that is 46 percent higher than the 2007 total of 108 trillion cubic feet. To make this future supply capacity available, operators are screening for opportunities outside of North America to explore and develop unconventional gas resources and are leveraging on technology innovation to unlock these vast potentials.

We are delighted to invite you to join the hunt on this frontier and share with us your experiences. History has proven that what was unconventional yesterday will, through some

technological breakthrough and creative process, become conventional tomorrow.

### Panelists:

- **Doug Bobrosky**, Canadian Business Unit Leader, Packers Plus (Invited)
- **Khaled Nouh**, President Middle East Region, Baker Hughes
- **Martin Stauble**, Exploration Director, PDO
- **Melvyn Giles**, Theme Leader Exploration Excellence Unconventional Gas, Shell (Invited)

## Panel Session 2: Appraisal - Make or Break - What Makes The Difference? Tuesday, 1 February 2011, 1100–1230 hours

**Moderator:** Jonathan Evans, Vice President Oman, BP (Invited Moderator)

While the post-exploration discovery “appraisal” stage poses questions for both conventional and unconventional projects, this phase is potentially more demanding for unconventional ventures given the increased challenge in estimating long-term commercial attractiveness. Unconventional appraisal programmes are thus more extensive in their scope often requiring more wells and additional investment in an early production system (for extended well testing) to enable sufficient confidence to commit to the development stage. Given the need to reduce or mitigate potentially large uncertainties, effective data acquisition is a crucial requirement during this phase as insufficient or misleading data may result in incorrect decisions being made on the future of a project. Key focus areas are evaluating opportunities to increase gas inflow (primarily via reservoir stimulation techniques), identification of well cost reduction options and assessment of areas for “sweet-spotting” (to improve the commercial attractiveness). An essential requirement for this phase is to ensure appropriate resourcing by identifying specialist petrotechnical staff to provide high quality analysis of the opportunity. Finally, for many unconventional gas projects, achieving success will also rely on a company culture that has a greater risk-tolerance and recognises the need to commit capital to a more extensive appraisal phase than is normally required for conventional gas projects.

### Panelists:

- **Craig Cipolla**, Chief Engineering Advisor for Hydraulic Fracture Monitoring and Optimisation, Schlumberger

- Martin Rylance, Global Hydraulic Fracture Stimulation Advisor, BP
- Salim Sibani, General Manager, Oman Oil Company (Invited)

## Panel Session 3: What Makes a Sustainable Unconventional Gas Development? Wednesday, 2 February 2011, 1100–1230 hours

Moderator: Abla Al Riyami, Gas Director, Petroleum Development Oman

Unconventional (including tight) gas developments form an increasing share of the energy supply chain. Experience from earlier (re-)developments suggests that new green field developments should take account of several key factors at the outset to ensure that they are optimised for value and can be sustained over the long term. With an increasing focus on the environment, it is essential to minimise the environmental impacts of the development footprint, water usage and management and disposal of impurities such as CO<sub>2</sub> and cuttings. Reservoirs tend to be complex and at least initially unpredictable, so designing surface facilities that are robust to significant reservoir uncertainties can be key to capturing upside. Likewise, persistent investment in technology to reduce cost, automate and identify reservoir sweet spots can significantly improve commercial viability. Life of field well issues and surveillance requirements differ between conventional and unconventional developments and should, if possible, be reflected in the regulatory regime. Careful planning for resources, both human and material, and early engagement with all stakeholders, particularly the local communities affected, are also key to smooth execution of developments.

In this panel discussion and in the associated papers, these aspects will be explored by a range of case studies of unconventional gas developments from around the world.

### Panelists:

- Hans-Christian Freitag, VP Marketing - Middle East Region, Baker Hughes (Invited)
- Paul Goodfellow, Vice President Development, Shell (Invited)
- Robert Gales, VP Resource Development, Weatherford International
- Yousuf Al-Ojaili, CEO, Oman Gas Company

## Sponsors

The Society of Petroleum Engineers gratefully acknowledges the generous contribution and support of the following companies towards the SPE Middle East Unconventional Gas Conference and Exhibition (UGAS).

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For more information about sponsoring or exhibiting at the SPE Middle East Unconventional Gas Conference and Exhibition (UGAS), please contact Sween Rajan at +971.4.390.3540 or by email at [srajan@spe.org](mailto:srajan@spe.org).

Schedule of Events		
	Hall 1	Hall 2
<b>Sunday, 30 January 2011</b>		
1600–1800 hours	Registration and Speaker Check-In	
<b>Monday, 31 January 2011</b>		
0730–1700 hours	Registration and Speaker Check-In	
0900–1030 hours	Opening and Keynote Speaker Address Followed by Tour of Exhibit	
1000–1730 hours	Exhibition	
1030–1100 hours	Coffee Break/Poster Session	
1100–1230 hours	<b>Panel Session 1: The Hunt for Unconventional Gas - Where and How?</b>	
1230–1330 hours	Luncheon	
1330–1500 hours	<b>Session 1: Unlocking the Value of Unconventional Gas</b>	
1500–1530 hours	Coffee Break/Poster Session	
1530–1700 hours	<b>Session 2: Geophysical and Geological Challenges</b>	<b>Session 3: Case Histories I</b>
1700–1800 hours	Welcome Reception	

<b>Tuesday, 1 February 2011</b>		
0900–1730 hours	Registration and Speaker Check-In	
0900–1030 hours	<b>Session 4: Unconventional Gas Research</b>	<b>Session 5: Reservoir Modelling</b>
0930–1730 hours	Exhibition	
1030–1100 hours	Coffee Break/Poster Session	
1100–1230 hours	<b>Panel 2: Appraisal - Make or Break - What Makes The Difference?</b>	
1230–1330 hours	Luncheon	
1330–1500 hours	<b>Session 6: Global Unconventional Gas Outlook</b>	<b>Session 7: Fracturing Part I</b>
1500–1530 hours	Coffee Break/Poster Session	
1530–1700 hours	<b>Session 8: Well Testing and Data Acquisition</b>	<b>Session 9: Fracturing Part II</b>

<b>Wednesday, 2 February 2011</b>		
0830–1500 hours	Registration and Speaker Check-In	
0900–1030 hours	<b>Session 10: Geomechanic Applications</b>	<b>Session 11: Logging</b>
0930–1530 hours	Exhibition	
1100–1230 hours	<b>Session 12: Case Histories II</b>	<b>Session 13: Drilling and Completion</b>
1230–1330 hours	Luncheon	
1330–1500 hours	<b>Panel 3: What Makes a Sustainable Unconventional Gas Development?</b>	
1500–1530 hours	Concluding Remarks and Raffle Prize Draw	

Please fill in the form in capital letters and fax it to +971.4.366.4648, or email it to gparashar@spe.org. Alternatively, you can register online at www.spe.org/events/ugas. Registration deadline is **14 January 2011**.

**Registration  
Deadline is 14 January 2011**  
For enquiries, please  
call: +971.4.390.3540 or  
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## DELEGATE INFORMATION

Registrant's Last Name (Family Name)		Registrant's First Name (Forename) <small>(Name as you want it to appear on badge)</small>	
Company Name		SPE Member Number	
Street Address or P.O. Box <input type="checkbox"/> Check here if you DO NOT wish to receive updates via mail			
City		State/Province	
Country			Zip/Postal Code
Office Telephone (include country/area/city code)		Facsimile (include country/area/city code)	

## REGISTRATION COSTS Group discounts available: 2-3 delegates receive 15% off; 4-5 delegates receive 20% off and 6 or more delegates receive 25% off.

Full Registration: Three-Day Registration	EARLY BIRD BY 10 OCT	ADVANCED BY 14 JAN 2011	AFTER 14 JAN AND ONSITE	COST IN USD
SPE Member	USD 695 <input type="checkbox"/>	USD 795 <input type="checkbox"/>	USD 895 <input type="checkbox"/>	
Nonmember	USD 795 <input type="checkbox"/>	USD 895 <input type="checkbox"/>	USD 995 <input type="checkbox"/>	
Author/Presenter/Committee/Session Chair/Panelist (Please select)	USD 395 <input type="checkbox"/>	USD 445 <input type="checkbox"/>	USD 495 <input type="checkbox"/>	
Student (valid ID required)	Complimentary	Complimentary	Complimentary	
<b>Full conference registrations include all conference sessions and technical exhibition, CD proceedings, coffee breaks for all three days, daily luncheon tickets, one conference reception ticket and one delegate bag. Student registrations (for students with valid IDs only) include all conference sessions, technical exhibition and coffee breaks.</b>				
One-Day Registration (please select)	EARLY BIRD BY 10 OCT	ADVANCED BY 14 JAN 2011	AFTER 14 JAN AND ONSITE	COST IN USD
<input type="checkbox"/> Monday, 31 January <input type="checkbox"/> Tuesday, 1 February <input type="checkbox"/> Wednesday, 2 February	SPE Member	USD 395 <input type="checkbox"/>	USD 445 <input type="checkbox"/>	USD 595 <input type="checkbox"/>
	Nonmember	USD 495 <input type="checkbox"/>	USD 545 <input type="checkbox"/>	USD 695 <input type="checkbox"/>
<b>One-day conference registrations include all conference sessions, technical exhibition, coffee breaks and luncheon on the specified day. Conference reception is included for registrations on 31 January. Visiting the exhibition is free of charge. Student registrations (with valid IDs only) include all conference sessions technical exhibition and coffee breaks.</b>				
Additional Tickets	COST IN USD			
<b>Luncheon Ticket (please select date)</b> <input type="checkbox"/> Monday, 31 January <input type="checkbox"/> Tuesday, 1 February <input type="checkbox"/> Wednesday, 2 February	USD 35 × ( _____ tickets)			
Conference Reception (Monday, 4 October)	USD 50 × ( _____ tickets)			
CD Proceedings	USD 200 (SPE Member) × ( _____ ) USD 300 (Nonmember) × ( _____ )			

**TOTAL COST IN USD** \_\_\_\_\_

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

## PAYMENT AND CANCELLATION POLICY Payment can be made by credit cards or bank transfers. All payments should be made in USD.

<input type="checkbox"/> <b>Bank Transfer</b>		<b>Cancellation Policy</b>	
Please make the payment to: HSBC Bank Middle East, Jebel Ali Branch, P.O. Box 66, Dubai, UAE <b>Account:</b> SPE Middle East FZ LLC <b>Account Number:</b> 035-129709-100 <b>Swift Code:</b> BBMEAEAD <b>IMPORTANT:</b> TRANSFER REFERENCE MUST QUOTE "11UGM" AND INVOICE NUMBER.		<ul style="list-style-type: none"> <li>If you cancel before 31 December 2010, you will receive a full refund less (USD 100).</li> <li>If you cancel after 31 December 2010, you will not be eligible for a refund.</li> <li>No refund will be given if a registered delegate fails to attend the conference.</li> <li>SPE must receive cancellation requests in writing by 31 December 2010, by fax on +971.4.366.4648 or by email to gparashar@spe.org.</li> </ul>	
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# Society of Petroleum Engineers

## Middle East, North Africa and India

### 2010/2011 Events

The Society of Petroleum Engineers offers many conferences and workshops throughout the Middle East, North Africa and India.

	9–10 November 2010	Workshop	<b>Mangaf, Kuwait</b> <b>Heavy Oil Resource: Opportunities and Challenges</b> Event Manager: Deepa Choitram (dchoitram@spe.org)
	28–30 November 2010	Workshop	<b>Cairo, Egypt</b> <b>Offshore Installations and Facilities</b> Event Manager: Deepa Choitram (dchoitram@spe.org)
	29 November– 1 December 2010	Workshop	<b>Abu Dhabi, UAE</b> <b>Managing Scale and Asphaltene</b> Event Manager: Muniza Bano Shaikh (mshaikh@spe.org)
	30 November– 1 December 2010	Workshop	<b>Doha, Qatar</b> <b>Drilling Today and Well Management Challenges in the Future: Are you Prepared?</b> Event Manager: Loreen Nisha (lnisha@spe.org)
	4–6 December 2010	Workshop	<b>Salmiya, Kuwait</b> <b>Young Talent: Paving the Way to Excellence</b> Event Manager: May Asmer (masmer@spe.org)
	5–7 December 2010	Workshop	<b>Manama, Bahrain</b> <b>Tight Gas Fracturing</b> Event Manager: Mohamed Aamer (maamer@spe.org)
	13–15 January 2011	Workshop	<b>Chennai, India</b> <b>Stimulation: Exploring New Frontiers</b> Event Manager: Loreen Nisha (lnisha@spe.org)
	25–26 January 2011	Workshop	<b>Abu Dhabi, UAE</b> <b>Assuring Surface Asset Integrity for Business Sustainability</b> Event Manager: Norvie Tungcul (ntungcul@spe.org)
	31 January– 2 February 2011	Conference	<b>Muscat, Oman</b> <b>SPE Middle East Unconventional Gas Conference and Exhibition (UGAS)</b> Event Manager: Caroline Attenborough (cattenborough@spe.org)
	7–9 February 2011	Workshop	<b>Kuwait</b> <b>Enhanced Oil Recovery</b> Event Manager: Deepa Choitram (dchoitram@spe.org)
	13–16 February 2011	Conference	<b>Doha, Qatar</b> <b>SPE Project and Facilities Challenges Conference at METS</b> Event Manager: Megha Chopra (mchopra@spe.org)
	21–23 February 2011	Workshop	<b>Abu Dhabi, UAE</b> <b>Gas for the Future: Development of Highly Sour Gas from Reservoir to Market</b> Event Manager: Deepa Makhija (dmakhija@spe.org)
	7–9 March 2011	Workshop	<b>Abu Dhabi, UAE</b> <b>Carbon Capture, Utilisation and Storage (CCUS): Challenges and Opportunities for Leadership in the Region</b> Event Manager: Norvie Tungcul (ntungcul@spe.org)
	20 March 2011	Workshop	<b>Manama, Bahrain</b> <b>Women Professionals in the Energy Sector</b> Event Manager: Megha Chopra (mchopra@spe.org)
	20–23 March 2011	Conference	<b>Manama, Bahrain</b> <b>Middle East Oil and Gas Show and Conference (MEOS)</b> Event Manager: Muniza Bano Shaikh (mshaikh@spe.org)

There are four ways to register for SPE events:

- Register online on the event website
- Download the registration form from the event website and fax to +971.4.366.4648
- Call the event manager at +971.4.390.3540
- Send an email to the event manager

**Scheduled events are subject to change. Visit [www.spe.org](http://www.spe.org) for updates.**

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