



**OIL & GAS INDIA
CONFERENCE
AND EXHIBITION**

28–30 March 2012
Mumbai, India

Conference Preview

**SPE Oil and Gas India
Conference and Exhibition (OGIC)**

28–30 March 2012

Renaissance Mumbai Hotel, India

Further, Deeper, Tougher: The Quest Continues...

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Welcome Letter from Conference Chairman



Dear Industry Colleagues,

As the Conference Chairman for the third edition of the **SPE Oil and Gas India Conference and Exhibition (OGIC)**, taking place 28–30 March 2012 at the Renaissance Mumbai Hotel and Convention Centre in Mumbai, India, it is my great pleasure to invite you to participate at this outstanding event.

An event dedicated to the Indian oil and gas industry has never been more fundamental. The oil and gas industry has been influential in stimulating India's economic growth; the petroleum and natural gas sector constitutes approximately 15% of the country's GDP. With the Indian economy expected to continue to demonstrate robust growth going forward, there is an emphasised need for wider and more intensive exploration for new finds, as well as more efficient and effective recovery.

OGIC will incorporate a high quality, multi-disciplinary technical conference with an exhibition showcasing state-of-the-art and innovative technologies. With previous editions of this event proving to be highly successful, OGIC has become renowned for its comprehensive technical agenda and enticing exhibitions, hosting some of the most desirable companies in the oil and gas industry in India.

With the theme "**Further, Deeper, Tougher: The Quest Continues...**", the conference will cover a wide spectrum of technical categories, including: exploration in frontier areas; pipelines; proven drilling technologies; reservoir simulation; deepwater development; non-conventional hydrocarbons—shale gas and CBM; reservoir management; well completions and services; EOR/IOR and heavy oil; well bore management—oil and gas production management; marginal fields; asset management—oil and gas production management; brownfield management; and IT.

Don't miss out on six panel sessions discussing innovation and technologies; YP—future of E&P industry; managing risks; growing environmental concerns; evolving role of service companies in E&P industry, and HR. Three special sessions on HSSE, mega projects, and heavy oil will also take place.

I look forward to welcoming you to OGIC and Mumbai!

Yours Sincerely,

Sudhir Vasudeva
CMD, ONGC
OGIC Conference Chairman
Director At-Large, SPE International
Chairperson—SPE India Council

Updates after 25 January will be reflected
in the onsite conference programme.

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Committees and About SPE

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Sudhir Vasudeva, ONGC
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T.K. Sengupta, ONGC
Vimal Shah, Halliburton
D.K. Shyamal, Baker Hughes
Shamrendra Singh, BG India
Rajeev Sonthalia, Schlumberger

About Society of Petroleum Engineers (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 104,000 members in 123 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.



Society of Petroleum Engineers

19–22 June 2012 | Bengaluru, India

SPE Applied Technology Workshop
Intelligent Fields: Making Them Happen

www.spe.org/events/12ablr

Plan to Attend

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The Society of Petroleum Engineers gratefully acknowledges the generous contribution and support of the following companies towards the **SPE Oil and Gas India Conference and Exhibition (OGIC)**.

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For more information about supporting or exhibiting at OGIC, please contact Sween Rajan at +971.4.457.5800 or by email at srajan@spe.org.

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Schedule of Events

Tuesday, 27 March 2012			
1500–1800 hours	Registration and Author Check-In		
Wednesday, 28 March 2012			
0800–1730 hours	Registration and Author Check-In		
0900–1030 hours	Opening Ceremony		
1030–1100 hours	Exhibition Opening and VIP Tour		
1030–1100 hours	Coffee Break and Poster Session		
1030–1930 hours	Exhibition		
1100–1300 hours	Executive Plenary Session: Further, Deeper, Tougher: The Quest Continues...		
1300–1400 hours	Luncheon		
1400–1530 hours	Session 1: Exploration in Frontier Areas	Session 2: Pipelines	Session 3: Proven Drilling Technologies 1
1530–1600 hours	Coffee Break and Poster Session		
1600–1730 hours	Session 4: Reservoir Simulation	Session 5: Deepwater Development 1	Panel Session 1: Role of Innovation and Technologies
1730–1745 hours	Coffee Break and Poster Session		
1745–1915 hours	Session 6: Non-Conventional Hydrocarbons–Shale Gas and CBM	Special Session 1: HSSE	Panel Session 2: YP–Future of E&P Industry
1930–2230 hours	Conference Gala Dinner		
Thursday, 29 March 2012			
0800–1730 hours	Registration and Author Check-In		
0930–1730 hours	Exhibition		
0930–1100 hours	Session 7: Reservoir Management	Session 8: Well Completions and Services 1	Panel Session 3: Managing Risks
1100–1130 hours	Coffee Break and Poster Session		
1130–1300 hours	Session 9: EOR/IOR and Heavy Oil	Session 10: Well Bore Management–Oil and Gas Production Management	Panel Session 4: Growing Environmental Concerns
1300–1400 hours	Luncheon		
1400–1530 hours	Session 11: Marginal Fields	Session 12: Asset Management–Oil and Gas Production Management	Session 13: Proven Drilling Technologies 2
1530–1600 hours	Coffee Break and Poster Session		
1600–1730 hours	Session 14: Brownfield Management	Session 15: Well Completions and Services 2	Panel Session 5: Evolving Role of Service Companies in E&P Industry
Friday, 30 March 2012			
0800–1100 hours	Registration and Author Check-In		
0930–1500 hours	Exhibition		
0900–1030 hours	Session 16: IT, Automation, and Management in E&P Industry	Special Session 2: Mega Projects	Special Session 3: Heavy Oil
1030–1100 hours	Coffee Break and Poster Session		
1100–1230 hours	Session 17: Deepwater Development 2		Panel Session 6: HR–The Big Crew Change
1230–1330 hours	Closing Ceremony: Valedictory Session		
1330–1430 hours	Luncheon		

Updates after 12 January will be reflected in the onsite conference programme.

Technical Programme

Wednesday, 28 March, 0900–1030 hours Opening Ceremony

Opening remarks and official inauguration of 2012 SPE OGIC.

Wednesday, 28 March, 1100–1300 hours Executive Plenary Session: Further, Deeper, Tougher: The Quest Continues...

2012 SPE President, Ganesh Thakur, along with specially selected high profile industry executives to discuss theme of 2012 OGIC: Further, Deeper, Tougher: The Quest Continues...

Wednesday, 28 March, 1400–1530 hours Session 1: Exploration in Frontier Areas

Session Chair: John Hoppe, Shell

1400	152912	A New Petrophysical Interpretation Approach to Characterise the Thinly Laminated Reservoir Using Conventional Tools D.K. Voleti, A.K. Tyagi, A. Singh, V. Mundayat, V.K. Pandey, K.R. Saxena, Reliance Industries
1430	153444	Reconciliation Between Well Test and Core Permeability in Tight Saline Aquifers S. Sarkar, V. Kumar, S.D. James, Shell India; N.J. Hall, Cypher Consulting Services
1500	150836	Pore Pressure Prediction in a Carbonate Reservoirs V. Atashbari, M.R. Tingay, University of Adelaide

Alternates/Posters

154473	Modelling Fluvial Reservoirs, Case Study from Carnarvon Basin, Australia P.K. Nayak, W. Morrison; J. Varghese, B. Mishra, A. Saha, S. Naskar, Shell India
154617	Fuzzy-Based Approach in Satellite-Based Hydrocarbon Exploration R. Taheri, Australian College of Kuwait; A.M. Tait, Curtin University

Wednesday, 28 March, 1400–1530 hours Session 2: Pipelines

Session Chair: Juju Mathew, Larsen & Toubro

1400	153157	Design of Gelled Fluid for Debris Removal in a Sub Sea Pipeline C. Misra, L. Salgaonkar, A. Danait, Halliburton
1430	155306	Pipeline Design and Maintenance with Special Reference to the High Paraffinic and High Pour Point Assam Crude Oil P.M. Bujarbaruah, Oil India
1500	155143	ONGC's C-Series Pipeline Commissioning S. V. Pedireddi, ONGC

Alternates/Posters

153985	Dynamic Simulation for Optimising Pigging Frequency for Dewaxing R. Bansal, R. Burla, S. Sharma, K. Afzal, ONGC
155232	Failure Analysis of an Onshore Pipeline in Petroleum Industry: A Case Study M.K. Talukdar, A. Kujur, S. Bhat, S.K. Sahota, ONGC
153865	Experimental Study of Sea Line Pigging in Unsteady State Two-Phase Flow M. Davoudi, Z. Khorrami, South Pars Gas Company

**Wednesday, 28 March, 1400–1530 hours
Session 3: Proven Drilling Technologies 1**

Session Chair: Olivier Konig, Weatherford

1400	153359	Wellbore Integrity Management: Dealing with Uncertainties S. Savari, A. Kumar, Halliburton
1430	154589	Advanced Application of Borehole Images* and Acoustic* Logs in Building Robust Geomechanical Model for Tapti-Daman Field, Western Offshore India R.R. Kumar, D.G. Rao, S. Swain, S. Parashar, S.G V, K. Sikdar, Schlumberger; P.S. Majithia, ONGC
1500	153764	Pore Pressure Prediction Using Seismic Velocities for Deepwater High Temperature-High Pressure Well in Offshore Krishna Godavari Basin, India A. Chatterjee, S. Mondal, P. Basu, B. Patel, Reliance Industries

Alternates/Posters

155215		Fluid and Solids Management System for Automated, Remote Controlled Rigs and New Methods for Reducing Waste Volume and Improving Filtration A. Kroken, J.K. Vasshus, Cubility
153770		Advances in Invert Emulsion Performance Through Novel Emulsifier Chemistry S. Young, N. Rife, M-I SWACO

**Wednesday, 28 March, 1600–1730 hours
Session 4: Reservoir Simulation**

1600	153365	Combining State-of-the-Art Uncertainty Management Approaches with Conventional Reservoir Assessment Techniques for an Integrated Brownfield Redevelopment Study R.A. Hofmann, Shell India
1630	153657	Multi-Dimension NMR Technique for Wireline Formation Tester Sampling Optimisation and Perforation Strategy Determination in a Brownfield, India A. Ghosh, T. Klimentos, R.K. Singh, V. Nangia, S. Malik, K. Ghosh, Schlumberger; S. Bhattacharya, H. Chadha, ONGC
1700	154920	Application of Analytical Technique for Streamline and Flood-Front Mapping in Giant Offshore Carbonate Reservoir D.K. Nautiyal, P.K. Jain, B. L. Lohar, R.V. Marathe, ONGC

Alternates/Posters

152312		Advanced Data Mining Methodologies from Exploratory Data Analysis to Well Clustering to Shed Light on Water Cut Distribution in Middle East Oilfield K.R. Holdaway, SAS Institute
155382		Integrated Static and Dynamic Data Analysis for Characterising the Brown Complex Carbonate Reservoir and Applying the Findings for Water Flood Management: A Case Study of Mumbai High South Field R. Kumar Singh, K. Muralidharan, A.S. Rathore, B.L. Lohar, S.K. Verma, B. Ram, S.K. Patel, ONGC



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**Wednesday, 28 March, 1600–1730 hours
Session 5: Deepwater Development 1**

1600	155200	Strategies and Challenges in Development of Deepwater Fields: An Indian Perspective S.N. Das, S. Kumar, A. Singh, ONGC
1630	153831	Flow Assurance Challenges: FPSO Based Development of MA Deepwater Field S. Singh, Reliance Industries
1700	153709	Meeting the Ultra HTHP Fluids Challenge G. De Stefano, E. Stamatakis, S. Young, M-I SWACO
Alternates/Posters		
154682		A New Generation of Flat Rheology Invert Drilling Fluids J. Lee, S. Young, O. Prebensen, M-I SWACO; J. Friedheim, M-I Drilling Fluids
153496		Innovative Subsea Intervention Plan to Avoid Production Loss–Manifold SCM Replacement: A Case Study T. Shedd, S.V. Krishna, S. Reddy, S. Rama, Reliance Industries
153516		KG D6 Deepwater Gas Development: A Case Study on Effective Interface Management of Construction Vessels and Rigs for Offshore Activities H. Mainkar, D. Mohgaonkar, Reliance Industries

**Wednesday, 28 March, 1600–1730 hours
Panel Session 1: Role of Innovation and Technologies in Finding and Producing More
Cost-Effectively**

This panel will discuss and address three critical aspects of our industry in current times:

1. Improving Exploration Success and Finding New Reservoirs

These could be new finds in the form of: new fields, frontier areas; new layers in the existing finds; or making difficult and unconventional hydrocarbons economically viable. The panel will discuss how best to achieve this and effective monetisation of new discoveries.

2. Producing More and Longer from Existing Reservoir Efficiently

This entails increasing production in brownfields: well by well, or cluster of wells, a pocket of field, by layers, or field wide; increase the recovery factor (RF). Panel will discuss how we get more out of what we have. Second aspect is re-development/rejuvenation of brownfield by extending the production curve for a longer period. Third part is planning and implementing field development plan (FDP) for newer discoveries in a systematic way encompassing all aspects for an efficient long term production.

3. Finding New Ways and Appropriate Technologies Required to Achieve the Above Two Points

The focus of discussion will be ‘what and how’ of application of workflows, usage of appropriate technologies for better reservoir characterisation, reservoir production, and its efficient management on continuous basis can be achieved. Then finding ways to continuously improve through innovation of process, as well as newer and better technologies that keep finding more, and producing more, cost effectively.



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Wednesday, 28 March, 1745–1915 hours

Session 6: Non-Conventional Hydrocarbons–Shale Gas and CBM

Session Chairs: Sudhansu Adhikari, Essar; Nick Shaw, Shell

1745	154644	Re-Fracturing Potential for Mature Fields: A Geomechanics Study V. Singh, Schlumberger
1815	153971	CBM Prediction: A Case Study of Field Scale Development in Bokaro Basin, India K.K. Roy, S.N. Parulkar, ONGC
1845	153729	Wellbore Stability in Unconventional Shales: The Design of a Nano-Particle Fluid G. De Stefano, M. Riley, S. Young, E. Stamatakis, L. Ji, Q. Guo, K. Price, M-I SWACO; J. Friedheim, M-I Drilling Fluids
Alternates/Posters		
155184		The Practical Aspect of Injection Falloff Test in Indian Coalbed Methane Reservoirs V. Kumar, V. Pequignot, S.M. Nawaz, Schlumberger; P.N. Hajra, A. Bhowmick, ONGC
153978		Pre-Fracture Treatment of Coal Seams for Fracture Conductivity Enhancement in Hydro Fracturing of CBM Wells and Coal Fines Mitigation in Multi-Lateral CBM Wells Through Wettability Alteration of Coal Fines: A Laboratory Study A. Kumar, N. Yadav, Y. Rao, C. Singhal, A. Kumar, ONGC
153669		Comprehensive Petrophysical Approach for Coal Seam Characterisation Using Conventional, Image and Fullwave Acoustic Data: A Case Study D. Chakraborty, P. Sil, J. Remedios, M.K. Bhoite, Baker Hughes; M. Ali, ONGC

Wednesday, 28 March, 1745–1915 hours

Special Session 1: HSSE

Specially invited industry professionals to present a special session dedicated to HSSE.

Wednesday, 28 March, 1745–1915 hours

Panel Session 2: Young Professionals–Future of E&P Industry (Global with Special Focus to India)

Oil and gas will remain the world's top energy source for decades to come and accounts for major global primary energy consumption, making it the biggest single energy source in the world. The US Department of Energy predicts that global consumption will increase to 118 million barrels a day by the year 2030—a surge driven by consumption in rapidly developing nations like China and India.

To meet the future demand of skilled manpower to run the industry, efforts are being made to excite and recruit young professionals for the industry. With 50% of the existing work force to retire in the next ten years the petroleum industry now faces a massive challenge to attract enough young people to its industry. Not only does the industry have to deal with its environmental and societal reputation, but it also has to face the large increase in young people choosing other branches for their career. But without more scientists and engineers it cannot sustain the levels of operation needed and will not be able to deliver enough energy for the future. It is crucial therefore to address the young generation directly and introduce them to the wide breadth of areas and activities that make up the petroleum sector.

The session invites speakers to address this very important issue of creating awareness to today's young professionals about the E&P industry, recruit, train, motivate, and to make them the future professionals for oil and gas industry nationally and globally.

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**Thursday, 29 March, 0930–1100 hours
Session 7: Reservoir Management**

Session Chair: Palvi Mech, Shell

0930	155458	Resolving a Permeability Mismatch in a Tertiary Carbonate Reservoir M. Oates, BG Group
1000	153835	Use of Amplitude Inversion in Facies Characterisation and Appraisal of a Deepwater Gas Discovery: A Case Study I.A. Syed, S. Sharma, Reliance Industries
1030	155204	Streamline Simulation for Geological Model Validation and Waterflood Pattern Management in the FM-1 layer of the Mangala Field, Barmer Basin, Rajasthan, India Y. Bhushan, A.P. Singh, M. Kumar, P. Shankar, M.K. Jha, Cairn India

Alternates/Posters

155274	Improvement of Vertical Conformance in Injectors: A Must for Fluvial Channel Reservoirs M.D. Kothiyal, V. Kumar, P. Kumar, A. Parasher, Cairn Energy; H. Rechoum, Weatherford	
155069	Characterising the Fractured Basement Reservoirs: An Integrated Methodology Using High-Resolution Logs S. Pattanaik, S. Parashar, K. Sikdar, D.B. Roy, Schlumberger	
153537	A Study of Differences in Array Induction and Multi-Laterolog Responses in a Well Drilled with High Salinity Water-Based Mud B. Corley, H. Maurer, R. Khokhar, Baker Hughes; S. Yang, J. Li, D. Xiao, CNOOC	

**Thursday, 29 March, 0930–1100 hours
Session 8: Well Completions and Services 1**

0930	153339	An Efficient Horizontal Cased Hole Multi-Stage Stimulation Well: A China Case Story I. Aviles, J.C. Fould, J.D. Baihly, Schlumberger
1000	151890	A Novel Shear Stable Fracturing Fluid for High Temperature Applications R. Kalgaonkar, P.R. Patil, Halliburton
1030	154554	Application of Self-Diverting Acid System for Stimulation of Multi-Layered Wells in Carbonate Reservoir: A Case Study D.K. Sarma, Y.R. Rao, B. Mandal, P.K. Bhargava, A. Kumar, ONGC

Alternates/Posters

153833	Gravel Pack Evaluation Techniques to Ensure Sand Control in Deep Water Unconsolidated Gas Reservoir S.K. Dhar, A. Bora, R. Reddy, B. Mund, A. Mishra, Reliance Industries Limited	
152975	Using Dynamic Simulations to Optimise the Start-Up Procedure of a Lazy Horizontal Oil Well R. Yusuf, SPT Group	
154806	Production Enhancement by Customised Hydraulic Fracturing Operations: Success Stories of Gamij Field K. Medavarapu, S. Das, S. Singh, K.C. Patel, A. Nandan, ONGC	



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Thursday, 29 March, 0930–1100 hours

Panel Session 3: Managing Risks– Political, Legal, Capital, and Financial

Energy security is the backbone of economic development of any country. So far, oil and gas has been the primary source of energy and has a pivotal role in global economic development. For decades, the supply has been just sufficient to meet the demand. Major oil companies are reaching 'peak oil', and to keep up with the rising demand are reaching frontiers of science and technology, such as deepwater and hostile environments of the arctic.

Apart from the technology challenges posed by science, we have the socio-political risks of operating in existing and new frontiers. The recent political upheaval across North Africa and Middle East, holding the largest proven reserve, highlighted the fragility of the entire industry. On one hand, the changing political system in existing markets is bringing in new operational dimensions. On the other hand, the new markets with no established regulatory system is a different challenge altogether.

The dynamics of all these factors has a profound impact on the financial performance of the operating companies and service providers. The new and changing systems bring in huge legal and regulatory obligations, be it changes in tax regime, EXIM policies, or operational requirements like local content. These need to be assessed and evaluated in depth. The industry also has to factor in the price volatility, driven by short term imbalances in supply–demand from natural calamities or regional political issues.

It is therefore important to address these emerging 'risks' associated with the industry to ensure energy security for the world at large. This session is dedicated to evaluate these risks, be it political, legal, operating, or financial and assessing mitigating measures acceptable across the stake holders.

Thursday, 29 March, 1130–1300 hours

Session 9: EOR/IOR and Heavy Oil

Session Chair: S. Ramamurthy, Schlumberger

1130	153322	Simulation Study of Experimentally Displacement Mechanisms of Microbial Improved Oil Recovery Processes M. Shabani Afrapoli, S. Li, S. Alipour, O. Torsater, Norwegian University of Science and Technology
1200	153667	ASP Flood Pilot In Jhalora (K-IV), India: A Case Study A.K. Jain, A.K. Dhawan, T.R. Misra, ONGC
1230	152895	Evaluating Thermal Performance in a Giant Heavy Oilfield A. Carnell, S. Dutta, C.S. Singh, S.K. Chelladurai, Shell India
Alternates/Posters		
155082		Simulation of In-Situ Combustion Process in Balol Pilot H.S. Dayal, B.V. Bhushan, S. Mitra, V. Pandey, A.C. Bhandari, M.M. Dwivedi, ONGC
153234		Cyclic Steam Stimulation Optimisation in Highly Stratified Heavy Oil Reservoir of Middle Magdalena Basin: Moriche Field D. Higuera, A.J. Serna, J. Useche, K.L. Pachano Pelaez, Mansarovar Energy; S. Sur, ONGC
155005		Selecting Water Injection Scheme for a Mature Carbonate Thin Oil Rim: A Case Study in Panna Field, India G. Mishra, BG



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Thursday, 29 March, 1130–1300 hours

Session 10: Well Bore Management–Oil and Gas Production Management

Session Chair: T.K. Sengupta, ONGC

1130	152994	Water Shut-Off Job in Complex Wells S. Haldar, J.E. Duarte, A.A. Mukhaitah, Saudi Aramco; A. Burov, W. Kharrat, Schlumberger
1200	152379	Identification of Secondary and Tertiary Precipitants of Sandstone Acidisation Allows Minimisation of Formation Damage: A Laboratory Study A. Kumar, N. Yadav, Y. Rao, C. Singhal, A. Kumar, ONGC
1230	155336	How Real-Time Surveillance Improves the ESP Run Life, Uptime and Reduces Production Deferment M. Abdel-Basset, A. Aziz, A.A. El Barkatawy, Schlumberger; M.A. Elsherif, H. Eraky, H. Matter, GUPCO; S.M. Hashim, Gulf of Suez Petroleum
Alternates/Posters		
153319		Virtual Testing of Beam Pumping Wells Through Inferred Production Method M. G. Lakhwani, A. Sarkar, Weatherford S. Agarwal, University of Petroleum and Energy Studies–India; M. Agarwal, ONGC
153165		Comparative Study of Different Sand Samples and Potential for Hydraulic Fracturing Applications K. Murugesan, R. Kothamasu, Y.K. Choudhary, Halliburton
155278		Remediation of Fines Migration Issue in Tapti Sandstone Reservoir by Application of New Stimulation Recipe K. Guha, M. Gupta, BG Exploration

Thursday, 29 March, 1130–1300 hours

Panel Session 4: Growing Environmental Concerns

During the last decade environmental concerns over the increasing consumption of fossil fuels have grown enormously. Global environmentalism has made a significant impact and fossil fuels are being increasingly discriminated against. The issues involved include land degradation, declining forest cover, severe air pollution, and deteriorating water quality. The need to balance economic growth against environmental concerns has been getting attention and thought-process of all stakeholders including business, industry, and regulatory authorities. Moreover, extraction of shale gas is creating new environmental and public health problems including possible leakage between hydraulic fracturing and contamination of drinking water. During the session, discussion and debates on growing environmental concerns from various factors such as, cultural and socio-economic, atmospheric, aquatic, terrestrial and ecosystem, and mounting implications which include climate change, carbon, and other greenhouse gas emissions will be on top of the agenda. The overall purpose of the session “Growing Environmental Concerns” is to provide an overview of environmental issues in the oil and gas exploration and production (upstream) industry, and the best approaches to achieving high environmental performances ensuring sustained high economic growth. The session will help to develop a roadmap to mitigate worries over the rising environmental and pollution concerns worldwide.



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Thursday, 29 March, 1400–1530 hours

Session 11: Marginal Fields

Session Chair: Mahesh Mahajan, Baker Hughes

1400	155145	Unlocking Potential of Offshore Marginal Fields in India: A Success Story R. Nischal, A. Kumar, S. Vasudeva, ONGC
1430	150535	Lesson Learnt: Seeking Opportunity in Low Resistivity Upper Sihapas Sands in Lalang Mengkapan Fields, Indonesia S.P. Pahlevi, Kondur Petroleum; A. Prakoso, EMP Malacca Strait
1500	153711	An Integrated Cost Effective Approach for Development of Marginal Fields Through Cluster System: A Case Study from Western Offshore Basin, India A.K. Maji, B. Mudiar, C.P. Raisinghani, ONGC
Alternates/Posters		
155083		Introduction of Floating Production System in ONGC: Technology, Strategy, and Lessons Learnt—A Case Study N. Malik, T. K. Sengupta, P. Das, ONGC

Thursday, 29 March, 1400–1530 hours

Session 12: Asset Management—Oil and Gas Production Management

1400	153510	Asset Integrity Management in Onshore and Offshore-Enhancing Reliability at KGD6 A. Rama Rao, T. Sharma, S. Srinivasa Rao, K. Rama Krishna, Reliance Industries
1430	153686	A Smart Way of Monitoring Well Integrity Utilising I-Field Capability: A Case Study of Power Water Injectors in Saudi Arabia Field S. Mehmood, R. Said, Saudi Aramco
1500	152869	Use of Producing Field Analogues to Characterise Production Behaviour of Brigadier and Mungaroo Formations M.S. Khedkar, P. Mech, S. Dutta, J. Borah, R. Kumar, O. Sadhu, Shell India
Alternates/Posters		
154662		Application of Microbial Treatment for Mitigating the Paraffin Deposition in Downhole Tubulars and Surface Flow Lines of Oil Wells: A Success Story S.K. Biswas, S. Bateja, V. Kukreti, D.P. Rana, M.P. Sarbhai, T.R. Misra, ONGC
153489		Best Practices on Systems and Processes Implementation at KGD6 Deepwater Fields in India M. Krishna, S. Kanithai, A. Ghael, Reliance Industries
153200		Development of a Fuzzy System Model for Candidate-Well Selection for Hydraulic Fracturing in a Carbonate Reservoir M. Zoveidavianpoor, A. Samsuri, University of Technology Malaysia; S. Shadzadeh, Petroleum University of Technology

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**Thursday, 29 March, 1400–1530 hours
Session 13: Proven Drilling Technologies 2**

Session Chair: Neeraj Kumar. Weatherford

1400	154823	Continuous Improvement in Drilling with Rotary Steerable System in Mumbai High Field R. Kumar, H.G. Suryadi, Schlumberger; S.C. Soni, A. Bhargava, A.B. Desai, ONGC
1430	153986	HPHT Gas Well Cementing Complications and its Effect on Casing Collapse Resistance Z. Yuan, J. Schubert, C. Teodoriu, Texas A&M University
1500	155320	Offshore Drilling and Well Testing in a HPHT Gas Well: A Case Study P.H. Shah, A. Saxena, H.T. Pandya, H. Sharma, Gujarat State Petroleum Corporation
Alternates/Posters		
155193		Geomechanical Evaluation of Mud Losses and Wellbore Instability in Mumbai High North Field: Implications to Infill Drilling and Reservoir Development R. Kumar, S.K. Verma, Ongc; S.V. Perumalla, Baker Hughes
155177		Drilling Oil Well Without Potassium Chloride: A Reality V. Sharma, A. Kumar, S. Dutta, ONGC
153705		Making Good HPHT Invert Emulsion Fluids Great! V. Wagle, S. Maghrabi, K. Teke, A. Gantepla, Halliburton

**Thursday, 29 March, 1600–1730 hours
Session 14: Brownfield Management**

Session Chair: P.K. Borthakur, ONGC

1600	155055	Well Placement Optimisation in a Mature Carbonate Waterflood Using Streamline-based Quality Maps A. Datta-Gupta, S.V. Taware, H. Park, Texas A&M University; S. Bhattacharya, M. Kumar, A.K. Tomar, ONGC
1630	153396	Evolution of Production Logging Technologies and Capabilities: The Quest to Know the Unknown: A Brownfield Case Study, Mumbai High, ONGC Western Offshore K. Ogra, A. Pandey, A. Kumar, R. Sinha, V. Verma, Schlumberger; Y. Chandra, ONGC
1700	154925	Optimising Exploitation Strategy of Multi-Layered Reservoir for Higher Recovery: A Case Study of Linch Field, Cambay Basin P.K. Dubey, P.K. Mishra, A. Walia, J.P. Lohiya, ONGC
Alternates/Posters		
151304		Success Story: Importance of Reservoir Monitoring for Finding Bypassed Oil Which Lead Production Incremental 295% S.P. Pahlevi, A.I. Pratomo, Kondur Petroleum; A. Prakoso, A. Kurniawan, S. Suderajat, I. Nur, EMP Malacca Strait
153344		Thru Tubing Casing Exits Using Underbalanced Drilling for Targeting Marginal Payzones C.J. Antao, S.B. Wilson, Baker Hughes
153379		Sub-Hydrostatic Fluids Solutions Using Hollow Glass Spheres, Aphrons and Synthetic Base Oil to Change Brownfields to Green R.K. Halder, S. Garg, K. Pratap; ONGC



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Thursday, 29 March, 1600–1730 hours

Session 15: Well Completions and Services 2

1600	155202	Combination of Dual String, Single Trip, Multi-Zones, and High Rate Water Pack as a Proven Completion Method for Fully Unconsolidated Reservoirs: A Case Study, Tunu Field M. Madyanova, D.M. Agee, Schlumberger; D. Laidlaw, F. Nurrachman, Total; H. Hustache, Halliburton
1630	152990	A Coiled Tubing Perforating Solution Incorporating a Gun Deployment System and Dynamic Underbalance Technique Improves Well Production in High Angle Deep Gas Wells in Saudi Arabia H.H. Al Jubran, Saudi Aramco
1700	153799	Open-Hole Gravel Pack: From Trial to Large Scale Deployment M. Coffin, B. Baricos, A. Cortier, Halliburton; J. Furgier, C.A. Menezes, M.J. Mcewan, L. Benchimol, Total

Alternates/Posters

155196	Case Study: Asia Pacific First Ever Closing of a Fluid-Loss Isolation Valve Using Electric Line in a Highly Deviated Well M.N. Dzul-Fikar, Welltec
154947	Fracture Assisted Sandstone Acidising, Alternative Approach to Increase Production in Tight Sandstone Reservoir H. Gunawan, H. Susanto, B. Widyantoro, Pertamina Hulu Energi-Onwj; J.A. Noguera, Halliburton
154632	Tail Pipe Disconnects Ideal For Setting Cement Plugs in Complex Wellbores; Procedures and Case Histories Provided H.E. Rogers, D.A. Poole, Halliburton

Thursday, 29 March, 1600–1730 hours

Panel Session 5: Evolving Role of Service Companies in E&P Industry

Currently the oil/gas industry is going through a very crucial phase where both the E&P and service companies are squeezed by the depleting margins. This is contributed by several factors such as challenging operating environment, growing needs for investments in cutting edge technologies and market forces. As the conventional reserves are under fast depletion, the industry is shifting focus towards unconventional reserves which continuously requires development of new technology and skill at a higher pace than ever before.

Over the last decade, E&P and service companies are seen to have been undergoing a transformation of the roles in the direction of creating a viable long term structural change in order to effectively handle the emerging challenges. The conventional business model of operator contractor relationship has lost its charm long ago for all good reasons. Following this, it was realised that specific areas in the industry need in-depth research and development work in order to develop new technology that can escort the industry through the emerging challenges in operating environments. This led the industry in to an outsourcing era, where critical areas were outsourced to the service companies for standalone work. The outsourcing process resulted in increased participation of service companies in the decision making process in to areas which were outsourced to them. However, this approach also did not last long due to misunderstandings, mistrusts, conflicts of interests, and several such factors mainly arising out of isolated roles of the two sides.

The current trend in the dynamics of the roles of E&P and service companies' is seen to be heading in a direction that lies on the collaborative and partnering platforms. The increased counts of joint participation in mega projects, joint work in development of technology, desire for risk/return sharing, integrated operations contracting patterns are only a few to name.

The session will focus on developing multiple perspectives on this key issue with regard to the impact on the overall productivity and efficiency of the industry and develop a direction where we see it heading in years to come.

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28–30 March 2012
Mumbai, India

Friday, 30 March, 0900–1030 hours

Session 16: IT, Automation, and Management in E&P Industry

0900	155364	Digital Oilfield: Exception Based Surveillance for Waterflood Management V. Lasrado, Wipro Technologies
1000	153511	Integrated Control System and Human Machine Interface: Challenges for Uninterrupted Onshore and Subsea Operations M. Subbarao, Y. Srinagesh, Reliance Industries
1030	154999	Decision Making and Process Optimisation Using Analytical Techniques P.K. Deore, Fujitsu

Alternates/Posters

153485	Integrated Operations R. Modi, Tata Consultancy Services
153414	An Approach for Spreadsheet-Independent Reserves Management Tracking, Archiving, and Reporting M.U. Sethi, H. Al Sumaiti, Schlumberger
155205	Real-Time Downhole Fluid Profiling and Sampling in a Horizontal Well: A Case Study in Matured Carbonate Field of Bombay Offshore Basin, India A. Kumar, V. Shankar, BG; P.K. Tellapaneni, Schlumberger

Friday, 30 March, 0900–1030 hours

Special Session 2: Mega Projects

Specially invited industry professionals to present a special session dedicated to Mega Projects.

Friday, 30 March, 0900–1030 hours

Special Session 3: Heavy Oil

Specially invited industry professionals to present a special session dedicated to Heavy Oil.

Friday, 30 March, 1100–1230 hours

Session 17: Deepwater Development 2

1100	153497	Production Simulation Utilisation for Deepwater Field Optimisation T. Shedd, S.V. Krishna, D. Mishra, A. Mahra, Reliance Industries
1130	155307	Estimating Well Deliverability in Deepwater Wells with Interval Pressure Transient Testing N. Kumar, V. Nangia, V.P. Deshpande, S. Nahar, R.R. Jackson, Schlumberger; K.M. Sundaram, ONGC
1200	153504	Hydrate Inhibition: Optimisation in Deepwater Gas Field S. Singh, G. Gupta, Reliance Industries

Alternate/Poster

110205	Successful Application of Chemical Injection Rate Control Valves K.M. Annadorai, Gibson; K.M. Annadorai, Gate
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28–30 March 2012
Mumbai, India

Friday, 30 March, 0900–1030 hours

Panel Session 6: HR–The Big Crew Change–The “Experienced Professional” Perspective

We have all heard of the impending “big crew change” and much has been said about what companies and the industry need to do about it. Much has also been said about the opportunities that will be created for today’s young professionals to step into the shoes of their elders, the soon to retire “experienced professionals”. But what of those EPs; what might the big crew change mean for them?

Life expectancy is increasing, and the quality of later life improving in most countries, but with increasingly inadequate retirement provisions to sustain the high standards of living we have become accustomed to through a longer retirement in an increasingly expensive world, how is this changing the attitudes of EPs towards work and retirement? How will governments need to respond to the changing demographics? How will companies need to adapt their employment policies to balance the costs and benefits of continuing to employ EPs longer, whilst making that employment attractive to them? What skills and behaviours will we need to cultivate to be successful in an increasingly interconnected, distributed world?

This panel session will explore this exciting new world of possibilities.

**Wednesday, 28 March–Friday, 30 March
Poster Presentations**

153412	Injection Water Breakthrough Patterns in Bassein Formation of Heera Field: A Case Study, Western Offshore, India M. Jha, S.S. Sharma, R.K. Virmani, A. Kumar, ONGC
155162	Polymer Injectivity Test in Mangala Field: A Significant Step Towards Field Wide Implementation M. Suresh Kumar, A. Pandey, M.K. Jha, Cairn Energy
153818	Feasibility of Single Well SAGD (SWSAGD) in Thin Heavy Oil Reservoirs of Girasol Field R. Marin, I.S. Luque, N.R. Amado, K.L. Pachano Pelaez, Mansarovar Energy; S. Sur, ONGC
153975	Building a Deepwater Pipe Lay Vessel in Budget and on Time A.B. Umap, Global Industries
155147	A Mechanistic Model to Characterise the Two-Phase Drilling Fluid Flow Through Inclined Eccentric Annular Geometry R. Ettehadi Osgouei, University Teknologi PETRONAS; M.E. Ozbayoglu, University of Tulsa; M. A. Ozbayoglu, TOBB University of Economics and Technology
155283	Managed Pressure Drilling Continues to Succeed in Narrow Window Wells of Southwest China: A Case Study Y. Xiongwen, Z. Yingcao, F. Shiliang, China National Petroleum Company; J. Rongyi, China University of Petroleum
151954	BMSI: An Index Parameter for Toughness and Durability Assessment of Sized CaCO₃ M. Amanullah, T.J. Allen, Saudi Aramco
141540	First Hybrid Inflow Control Completion in India P. Khan, P. Gavioli, Baker Hughes; T.J. Mckenzie, R. Singh, Cairn India



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Mumbai, India

153353	Effect of Acid Concentration and Flow Rate on Wormhole Generation in Low Permeability Formation N. Raysoni, N. Kalia, Y.K. Choudhary, Halliburton
155129	The Evolution of Completion Designs Using Alternate Path (Shunt Tubes) Technology S. Saebi, Schlumberger
154482	Lessons Learnt from Water Shutoff of Horizontal Well Using Inflatable Packers and Chemicals: A Case History from Ghawar Field, Saudi Arabia H.K. Sharma, Saudi Aramco
154030	Analysis of Pressure-Transient and Production Data of a Naturally Fractured Vuggy Petroleum Reservoir A. Davletbaev, V. Baikov, RN-UFANIPINEFT, Rosneft Oil; E. Ozkan, Colorado School of Mines; T. Usmanov, ROSNEFT
153750	A Parallel GA-EDA Hybrid Algorithm for History-Matching A. Abdollahzadeh, A. Reynolds, M.A. Christie, D. Corne, Heriot-Watt University; B.J. Davies, G. Williams, BP
153188	EOR/IOR Challenges in a Vertically Communicating Stack of Non-Clastic Reservoirs M. Pratap, ADCO
152426	Diminishing the Gap Between Mathematics and at Present Reservoir Simulators Towards a Next Generation Simulator: A Strategic Approach A.K. Jha, A. Singh, S. Alimuddin, Pandit Deendayal Petroleum University
151573	Improvement Porosity Estimation in Hi-Resolution Carbonate Fractures Static Models, Focused to Dual Porosity Simulation Models. Canterell Field, Mexico E. Aguirre, E. Soriano Mercado, Pemex
155182	Integrated Digital Oilfield Workflow R. Chandrayana, Schlumberger
155464	Digital Oilfield: It's Never Just About the Technology! A.A. Chitale, Praesagus RTPO Hamilton



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28–30 March 2012
Mumbai, India

General Information

Cancellation Policy

Cancellations must be submitted in writing to SPE Middle East, North Africa, and India, by fax to +971.4.457.3164 or email to formsdubai@spe.org. Cancellations received prior to 28 January 2012 will receive a full refund less USD 100 processing fee. Cancellations received after 28 January 2012 and no-shows are not eligible for a refund.

Conference Proceedings

A copy of the Conference Proceedings on CD-ROM is included in the full conference registration fee. One-day attendees can purchase CD Proceedings for USD 200 for SPE members and USD 300 for nonmembers. Additional copies may be ordered using the registration form.

Copyright Information

All 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 except for authorised press.

Exhibition

The exhibition will take place at the Renaissance Mumbai Hotel and Conference Centre, Mumbai, India and will be open at the following times:

Wednesday, 28 March 2012..... 1000–1800 hours
Thursday, 29 March 2012..... 0830–1600 hours
Friday, 30 March 2012..... 0830–1730 hours

An exhibition visitor pass can be purchased for USD 50.

If you would like to book an exhibition stand or support the event, please contact Sween Rajan, sponsorship and exhibits specialist, on +971.4.457.5800 or at srajan@spe.org.

Gala Dinner

The OGIC Gala Dinner is scheduled to take place at 1930 hours on Wednesday, 28 March 2012. A Gala Dinner ticket is included in the full conference registration fee. Should you wish to purchase additional tickets for USD 50 each, please fill in the registration form.

Luncheons

Luncheons will be served on Wednesday, 28 March, Thursday, 29 March, and Friday, 30 March. Luncheon tickets are included in the full conference registration fee. The one-day conference registration fee includes a luncheon ticket for that day. Should you wish to purchase additional luncheon tickets for USD 30 each, please indicate for which day(s) on the registration form.

Registration

Online registration is available at www.spe.org/events/ogic. Alternatively, you may fax the completed registration form to +971.4.457.3164, or send a scanned copy of it by email to formsdubai@spe.org. Onsite registration and delegate badge collection will take place at the Renaissance Mumbai Hotel and Conference Centre, Mumbai, India at the following times:

Tuesday, 27 March 2012.....1400–1800 hours
Wednesday, 28 March 2012..... 0800–1700 hours
Thursday, 29 March 2012..... 0800–1730 hours
Friday, 30 March 2012..... 0800–1100 hours

Visa Information

SPE Middle East, North Africa, and India will assist in providing a visa invitation letter, upon request in writing, to confirmed registrants after receiving full payment of registration fees. Visa invitation letters take five days to issue from the date of request and it is the delegate's responsibility to obtain their own visa. SPE cannot issue the visa nor can we guarantee it will be obtained.



Register to attend OGIC and you could win a 32 GB iPad 2!

Winners will be announced on Friday, 30 March during the Closing Ceremony.



**OIL & GAS INDIA
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28-30 March 2012
Mumbai, India

About Mumbai, India

Mumbai (formerly known as Bombay) is the commercial and entertainment centre of India and is the country's largest city with a population of approximately 14 million people. The city is located on the west coast of India alongside the Arabian Sea. With an appealing coastline, many of Mumbai's top resorts and tourist attractions lie around its main beaches, where evening funfairs provide a great atmosphere. People of various backgrounds inhabit the city, and due to this diversification the customs, languages and even the food is of infinite variety. Mumbai is served by the Sahara International Airport which is located 30kms north of the city centre.

Weather

The month of March has a mean minimum temperature of 20.6°C and a mean maximum temperature of 32.7°C. The beginning of March sees night temperatures reach 15°C. The days reach 30 to 33°C. During the transition from the dry to humid weather in mid-March, the temperature might hit 38 to 40°C.

Time Zone

Mumbai is five and a half (5.5) hours ahead of GMT (GMT+5.5)

Currency

The official currency used in India is the Indian Rupee. The rate of exchange is as below:
One USD = 44.75 INR

Language

Mumbai is a confluence of people from various parts of India, but dominant are people from the west, then north and followed by the south. Marathi is the state and city official language used by state government agencies, municipal authorities and the local police. English is widely used in the corporate world and in banking and trading.



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**Early Bird Registration Deadline:
11 February 2012**

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Full Registration: Three-Day Registration	BEFORE 11 FEB 2012	AFTER 11 FEB AND ONSITE	COST IN USD
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Full conference registrations include all conference sessions and technical exhibition, CD proceedings, coffee breaks for all three days, daily luncheon tickets, one gala dinner ticket and one delegate bag. Student registrations (for students with valid IDs only) include all conference sessions, technical exhibition and coffee breaks.			
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Luncheon Ticket (please select date) <input type="checkbox"/> Wednesday, 28 March <input type="checkbox"/> Thursday, 29 March <input type="checkbox"/> Friday, 30 March			USD 30 × (_____ tickets)
Gala Dinner (Wednesday, 28 March)			USD 50 × (_____ tickets)
CD Proceedings			USD 200 (SPE Member) × (_____) USD 300 (Nonmember) × (_____)
			TOTAL COST IN USD

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