

# Sneak Preview



Society of Petroleum Engineers

## The First SPE Project and Facilities Challenges Conference

at



13–16 February 2011

Sheraton Resort and Convention Hotel, Doha, Qatar

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## Schedule of Events

### Monday, 14 February 2011

0900–1000 hours	Opening Ceremony (Al Majlis Ballroom)	
1000–1100 hours	Inauguration of Exhibition and VIP Tour (Exhibition Hall)	
1000–1100 hours	Coffee Break/Poster Session (Exhibition Hall)	
1100–1230 hours	(Al Salwa Ballroom 2) <b>Session 1: Improved Oil Recovery/Enhanced Oil Recovery</b> <b>Presenters:</b> Yahya Al-Wahaibi, Sultan Qaboos University Elham El Monier, Texas A&M University Hisham Saadawi, ADCO	(Al Salwa Ballroom 3) <b>Session 2: Field Development Projects</b> <b>Presenters:</b> Ardian Nengkoda, Schlumberger Cherif Hammoutene, Smith International Mohammed Al-Saeedi, Kuwait Oil Company
1230–1400 hours	Luncheon (Foyer)	
1400–1530 hours	(Al Salwa Ballroom 2) <b>Session 3: Water Management</b> <b>Presenters:</b> Hamad Al-Baker, Qatar Petroleum Hamad Al-Ajmi, Kuwait Oil Company Sriyanta Hadi, PETRONAS	(Al Salwa Ballroom 3) <b>Session 4: Integrated Project Management (Practices)</b> <b>Presenters:</b> Hasan M. Mubarak, Saudi Aramco Harendra Relwani, Qatar Petroleum Jugal Barpatragohain, Oil India Limited Parimal Raj, Pandit Deemdayal Petroleum University
1800–2100 hours	Gala Dinner (TBC)	

### Tuesday, 15 February 2011

0830–1000 hours	(Al Salwa Ballroom 2) <b>Session 5: Integrated Project Management (Applications)</b> <b>Presenters:</b> Rashed Al-Mehthel, Saudi Aramco Trian Asmoro, PT Medco E&P Reza Ardianto, PERTAMINA EP	(Al Salwa Ballroom 3) <b>Session 6: HSSE</b> <b>Presenters:</b> Ibrahim Mohamed, Texas A&M University Hisham Al-Shuwaikhat, Saudi Aramco Mahmood Amani, Texas A&M University, Qatar
1000–1030 hours	Coffee Break/Poster Session (Foyer)	
1030–1200 hours	(Al Salwa Ballroom 2) <b>Session 7: Asset Integrity and Facility Management</b> <b>Presenters:</b> Simon Hare, Total Dwaipayana Bora, Kuwait Oil Company Ardian Nengkoda, Schlumberger Emad Riad, Gamsa Petroleum Company (Gemptco)	(Al Salwa Ballroom 3) <b>Session 8: Intelligent Digital Fields</b> <b>Presenters:</b> Muhammad Ibrahim, Schlumberger Senior Representative, Kuwait Oil Company Animesh Kumar, Indian School of Mines
1200–1400 hours	Luncheon (Foyer)	
1400–1530 hours	(Al Salwa Ballroom 3) <b>Session 9: Mature Field Development</b> <b>Presenters:</b> Senior Representative, Kuwait Oil Company Said Al Maktoomi, Petroleum Development Company Gudfinnur Sigurdsson, Det Norske Veritas (DNV)	

### Wednesday, 16 February 2011

0830–1000 hours	(Dukhan Ballroom) <b>Session 10: Mega Projects</b> <b>Presenters:</b> Niels Fabricius, Shell Senior Representative, ExxonMobil Mike Denton, Chevron	(Al Salwa Ballroom 2) <b>Session 11: Artificial Lift</b> <b>Presenters:</b> Ali Jama, Schlumberger Moufida Makhlof, Baker Hughes James Hall, Shell
1000–1030 hours	Coffee Breaks/ Poster Session (Foyer)	
1030–1200 hours	(Al Salwa Ballroom 2) <b>Session 12: Innovations (Research and Development)</b> <b>Presenters:</b> William Morrow, Harrier Technologies Mohamed Haouche, Total Abhishek Punase, University of Pune	
1200–1330 hours	Luncheon (Foyer)	
1330–1500 hours	Closing Ceremony (TBC)	

Here is a snap shot of the technical presentations that will take place during the conference. For the complete list of papers and posters, please visit the event's website.

**Monday, 14 February, 1100–1230 hours**

**Al Salwa Ballroom 2**

**Session 1: Improved Oil Recovery/Enhanced Oil Recovery**

Session Chairperson: Ahmed A. Al-Aji, Qatar Petroleum  
Session Co-Chairperson: Effiong Okon, Qatar Shell

139607 **Crossbedding Heterogeneity Effects on Water Alternating Gas Injection**

Y. Al Wahaibi, Sultan Qaboos University

142755 **A Study of Several Environmentally Friendly Clay Stabilisers**

E. El Monier, H. A. Nasr El Din, Texas A&M University

141629 **A Study to Evaluate the Impact of CO<sub>2</sub> EOR on Existing Oilfield Facilities**

H. Saadawi, ADCO; A. Johns, K. Walter, Mustang Engineering

**Alternates/Posters**

141379 **A Novel Method to Model Water Flooding via Transfer Functions Approach**

M. Sayyafzadeh, The University of Adelaide; P. Pourafshari, University of Tehran; F. Rashidi, Amir Kabir, University of Technology

141570 **Integration of In-Situ Combustion with Solvent Injection: A Detailed Study**

J. Dsilva, University of Pune

**Monday, 14 February, 1100–1230 hours**

**Al Salwa Ballroom 3**

**Session 2: Field Development Projects**

Session Chairperson: Jamal Al-Mufleh, Saudi Aramco  
Session Co-Chairperson: Darwish Behzad, Qatar Petroleum

142475 **Heavy Oil Characteristic Assessment for Field Facilities Selection Steam EOR: Case Study in Oman**

A. Nengkoda, Schlumberger

140103 **Bit Efficiency Factor: New Concept to Optimise PDC Bit Design for Entire Hole Section Utilising Modelled MSE and UCS**

C. Hammoutene, Smith International

139873 **Solving Deep, Hard/Abrasive 16-in Application Challenges with New PDC Technology Saves Operator 13 Days Rig Time, Kuwait**

M. Al-Saeedi, F. Al-Fayez, M. Sounderrajan, M. N. Al-Mudhaf, A. Q. Al-Kandary, W. Miranda, M. Mishra, Kuwait Oil Company; H. Maliekka, O. Ghoneim, Smith Bits

**Alternate/Poster**

140664 **Integrated Formation Resistivity Forward Modelling: A Case Study of a Subnormal Fractured Carbonate Reservoir**

G. R. Darmawan, Pertamina EP

**Monday, 14 February, 1400–1530 hours**

**Al Salwa Ballroom 2**

**Session 3: Water Management**

Session Chairperson: Nasser Al-Kuwairi, Qatar Petroleum

Session Co-Chairperson: Ibrahim K. Al-Jaidah, Qatar Petroleum

**Invited Speakers**

Hamad Al-Baker, Qatar Petroleum

Hamad Al-Ajmi, Kuwait Oil Company

141860 **Successful Improving Produce Water Treatment by Applying New Technology in PA Field, Peninsular Malaysia Operations, PETRONAS Development and Production**

S. Hadi, A. B. Osman, PETRONAS

**Alternates/Posters**

140644 **Estimation of Formation Water Properties During Crude Oil Production Using Simple Predictive Tool**

A. Bahadori, Curtin University of Technology

141109 **From Sea Water Injection to Produced Water Injection in Waterflood Project, Rantau Field, Pertamina Ep**

R. N. Ardianto, J. H. Simamora, Pertamina

**Monday, 14 February, 1400–1530 hours**

**Al Salwa Ballroom 3**

**Session 4: Integrated Project Management (Practices)**

Session Chairperson: Bader Al-Telaihi, Kuwait Oil Company

Session Co-Chairperson: Cedric Bouleau, Schlumberger

**Invited Speaker**

Hasan M. Mubarak, Saudi Aramco

139832 **Specialties and Application of Control Systems in a Large Cooling Water Project**

H. J. Relwani, A. D. Sarma, Qatar Petroleum; R. Salamat, Cranfield University

142168 **Risk Mitigation in Upstream Projects by Implementing Effective HSE Regulations**

J. Barpatragohain, Oil India Limited

141870 **A Literature Analysis of the Coiled Tubing Drilling Processes**

S. Kumar, P. Raj, B. Mathur, Pandit Deendayal Petroleum University

**Tuesday, 15 February, 0830–1000 hours**

**Al Salwa Ballroom 2**

**Session 5: Integrated Project Management (Applications)**

Session Chairperson: Jamal Al-Mufleh, Saudi Aramco

Session Co-Chairperson: Ibrahim K. Al-Jaidah, Qatar Petroleum

141859 **Thick Black Liquid Formation in Production Facilities Centrifugal Compressors' Discharge: A Case Study**

R. Almehtel, W. Carvalho, Saudi Aramco

142393 **Gunung Kembang Pipeline Project, SSE Block Indonesia: Delivering Gas Sales, Project Cost and Time Efficiency**

T. H. Asmoro, I. M. Parantapa, PT Medco E&P Indonesia

142080 **The Role of Project Management Team in Waterflood Pilot Project as a Plan For Full Project Development**

R. N. Ardianto, J. H. Simamora, Pertamina

**Alternate/Poster**

141768 **Successful Managing 'D Field Compressed Gas Capacity Enhancement Integrated Turnaround' (DuCIT), Peninsular Malaysia Operations, PETRONAS Development and Production**

S. Hadi, A. B. Osman, PETRONAS Carigali Sdn Bhd

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**Pascal Taillefer**  
Total

**Rafi Baghdjian**  
Qatar Shell Service Company

**Sajeer Kalandan**  
OXY

**Walid Ali**  
Halliburton

**Tuesday, 15 February, 0830–1000 hours**

**Al Salwa Ballroom 3**

**Session 6: HSSE**

Session Chairperson: Yousef Al-Jaber, Qatar Petroleum

Session Co-Chairperson: Effiong Okon, Qatar Shell

- 139828 **Sulfate Precipitation During CO<sub>2</sub> Sequestration in Carbonate Rock**  
I. M. Mohamed, H. A. Nasr El-Din, Texas A&M University
- 141394 **Effective HSE Management System in Saudi Aramco: A Successful Case Study of Leading Indicators Analysis Impact on KPIs**  
H. I. Al-Shuwaikhat, Saudi Aramco
- 142488 **Drilling Waste Management: A Case Study of the Drilling Waste Management and Environmental Control in One of the Iranian Offshore Fields**  
M. Amani, Texas A&M University

**Tuesday, 15 February, 1030–1200 hours**

**Al Salwa Ballroom 2**

**Session 7: Asset Integrity and Facility Management**

Session Chairperson: Bader Al-Telaihi, Kuwait Oil Company

Session Co-Chairperson: Ali Al-Shaikh, Qatar Petroleum

**Invited Speaker**

Simon Hare, Total

- 141174 **Replacement of Existing ESD Valves with New SIL Rated ESD Valves: A Case Study of Production Optimisation and Enhancement of Process Safety and Integrity in Kuwait Oil Company**  
D. Bora, N. Abdul Aziz, S. M. Al-Khaledi, Kuwait Oil Company
- 142129 **LCA Application for Casing Design Well Integrity: Case Study Aquifer External Corrosion Attack in Middle East**  
A. Nengkoda, Schlumberger
- 142460 **Soda Ash as Gypsum Dissolver In 8 Inch Production Line Case Study Gemsa Field, Gulf of Suez, Egypt**  
E. H. Riad, K. O. Abd-allah, A. H. Sarhan, Gemsa Petroleum Company

**Alternates/Posters**

- 142269 **Integrating Subsurface, Well and Surface Data as a Plan for Waterflood Project in Rantau Fie Id**  
R. N. Ardianto, J. H. Simamora, Pertamina
- 141770 **Application of Production Logging and Noise logging for Well Leak Detection, Case Study in Persian Wells**  
R. Salehi moorkani, National Iranian South Oil Company

**Tuesday, 15 February, 1030–1200 hours**

**Al Salwa Ballroom 3**

**Session 8: Intelligent Digital Fields**

Session Chairperson: Cedric Bouleau, Schlumberger

Session Co-Chairperson: Senior Representative, Qatar Petroleum

**Invited Speakers**

Muhammad Ibrahim, Schlumberger  
Senior Representative, Kuwait Oil Company

- 132268 **Prospects of Foam Stimulation in Oil and Gas Wells of India**  
A. Kumar, A. Dutt, S. Singh, S. S. Sikarwar, Indian School of Mines University; R. Das, Oil and Natural Gas Corporation Limited

**Alternates/Posters**

- 141708 **Optimising Production of Tight Gas Wells by Revolutionising Hydraulic Fracturing**  
M. Ahmed, Mehran University of Engineering and Technology
- 140509 **Adopting Simple and Advanced Genetic Algorithms as Optimisation Tools for Increasing Oil Recovery and NPV in an Iraq Oilfield**  
W. J. Al Mudhafer, South Oil Company Iraq; M. A. Shahed, The University of Manchester

**Tuesday, 15 February, 1400–1530 hours**

**Al Salwa Ballroom 3**

**Session 9: Mature Field Development**

Session Chairperson: Nasser Al-Kuwairi, Qatar Petroleum  
Session Co-Chairperson: Mohamed Ali Hamid, Qatar Petroleum

**Invited Speakers**

Senior Representative, Kuwait Oil Company  
Said Al Maktoomi, Petroleum Development Oman

- 142858 **Life Extension and Assessment of Existing Offshore Structures**

G. Sigurdsson, G. Solland, Det Norske Veritas

**Alternates/Posters**

- 142477 **Trending of H<sub>2</sub>S from Reservoir After Acidising from Well Contained SRB Bacteria: Souring Case Study in X Field, Southern Oman**  
A. Nengkoda, Schlumberger
- 141229 **Online Production Model**  
M. Narain, T. Al-Nabhan, Kuwait Oil Company

**Wednesday, 16 February, 0830–1000 hours**

**Dukhan Ballroom**

**Session 10: Mega Projects**

Session Chairperson: Effiong Okon, Qatar Shell

Session Co-Chairperson: Harendra Relwani, Qatar Petroleum

**Invited Speakers**

Niels Fabricius, Shell  
Senior Representative, ExxonMobil

- 141043 **Implementing Craft Productivity to Improve Project Performance**

M. Denton, Chevron Corporation

**Wednesday, 16 February, 0830–1000 hours**

**Al Salwa Ballroom 2**

**Session 11: Artificial Lift**

Session Chairperson: Saqar Al-Shahwani, Qatar Petroleum

Session Co-Chairperson: B.C. Joshi, Qatar Petroleum

**Invited Speakers**

Ali Jama, Schlumberger  
Moufida Makhoulouf, Baker Hughes

- 142764 **Assessing Gas Lift Capability to Support Asset Design**

J. W. Hall, Shell; M. Jaralla, Qatar Petroleum

**Wednesday, 16 February, 1100–1200 hours**

**Al Salwa Ballroom 2**

**Session 12: Innovations (Research and Development)**

Session Chairperson: Senior Representative, Total

Session Co-Chairperson: Adel Rahimi, Qatar Petroleum

**Invited Speakers**

William Morrow, Harrier Technologies  
Mohamed Haouche, Total

- 142658 **C<sub>2</sub> "SOYBEAN SLURRY" C<sub>2</sub> : A New Effective, Economical and Environmental Friendly Solution for Oil Congealing**

A. D. Punase, A. M. Patane, A. John, A. D. Bihani, C. M. Padalkar, A. Arora, University of Pune

**Alternate/Poster**

- 141849 **Chinese Pressure and Temperature Preservation Sampling Device for Natural Gas Hydrates**

H. Zhu, D. Jingen, China University of Petroleum; L. Qingyou, Southwest Petroleum Institute

**Poster Session**

- 142343 **Feasibility Study of Steam/Flue Gas Mixture Injection in Low Permeability Reservoir**

R. Liu, J. Zhang, L. Meng, Sinopec; F. Liu, Jinma Oilfield Development Company, Petrochina; C. Zuo, Department of Exploitation and Project in Tarim Oilfield

- 142489 **Effects of Block to Block Interaction on Oil Recovery from South Pars Oil Layer**

M. Amani, Texas A & M University at Qatar

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The Turbomachinery Laboratory proudly continues Texas A&M Universities tradition of identifying research areas critical to the state's economic development, leadership, and quality of life. Priorities include conducting basic and applied research into important problems of reliability and performance of turbomachinery -- rotating machinery that extracts or adds energy to fluids. That's everything from classic Dutch windmills to the space shuttle's main engine turbopumps and compressors that move natural gas through the distribution system. Also, Undergraduate and Graduate Education, and Continuing Education and Professional Development.

The Turbomachinery Laboratory sponsors two large industrial symposia to provide continuing education opportunities to users of industrial turbomachinery, and to generate profits to foster and support graduate and undergraduate education in turbomachinery.

The Turbomachinery Laboratory provides an opportunity for collaborative research among faculty members throughout the college in the area of turbomachinery.

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13 – 16 February 2011 Sheraton Doha Resort & Conference Hotel, Qatar

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