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Vice President and Prime Minister of the United Arab Emirates and Ruler of Dubai

Society of Petroleum Engineers
Annual Technical Conference and Exhibition
26–28 September 2016 • Dubai World Trade Centre • Dubai, UAE
www.spe.org/go/atce2016

E&P 2.0—Transforming and Shaping the Future

CONFERENCE PREVIEW

A Supplement to JPT
Welcome from the Programme Chair

For the first time in its long history, SPE’s flagship event, ATCE, will be held in the Middle East, the centre of world energy resources. ATCE 2016 is proud to have received the patronage of His Highness Sheikh Mohammed bin Rashid Al Maktoum, Vice President and Prime Minister of the UAE and Ruler of Dubai. The theme for this year is “E&P 2.0—Transforming and Shaping the Future”. ATCE 2016 marks a new era for the century-old upstream industry.

Given the Middle East’s dominant position in conventional reserves and hydrocarbon production as well as its promising unconventional resources, this edition of ATCE has already drawn a high number of more than 2,100 technical paper proposals providing rich subjects for 58 technical sessions. In addition, special topical meetings are being organised to address short-term and long-term challenges in Innovation Beyond Limits, Boosting Efficiency, Unconventional Reservoirs, Mature Fields Optimisation, Talent Management, and Academic Adaptation.

Attending this event will be an exceptional opportunity for you to visit and interact with more than 250 exhibitors displaying their state-of-the-art technologies at the Dubai World Trade Centre. The showcased technologies will firmly position our industry in the era of E&P 2.0.

I am certain that the conference programme and the city of Dubai will provide you a unique experience to exchange ideas, share knowledge, stay in touch with technology advancement, and network for potential future collaborations and business opportunities.

Enjoy ATCE 2016 in Dubai, the City of Gold.

Best Regards,

Khalid A. Zainalabedin
ATCE 2016 Programme Chair

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WHY ATTEND?

- Top-rated conference programme
- Network with oil and gas professionals from 70+ countries around the world
- Student and young professional activities
- Pre- and post-conference training courses
- One of the industry’s top exhibitions showcasing the latest technologies

---

IT COSTS LESS THAN YOU THINK!

Preferential rates with 23 hotels starting from USD 84 (per night).

Discounted direct return flights with Emirates Airline:
- from Houston USD 885
- from London GBP 349
- from Kuala Lumpur MYR 3,936

See page 25 for more details.
## Executive Advisory Committee

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<th>Company</th>
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<tr>
<td>Helge Hove Haldorsen</td>
<td>Executive Advisory Committee Chair, 2015 SPE President, Statoil</td>
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<tr>
<td>Khalid A. Zainalabedin</td>
<td>Programme Chair, Saudi Aramco</td>
</tr>
<tr>
<td>Nathan Meehan</td>
<td>2016 SPE President, Baker Hughes</td>
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<tr>
<td>Fareed Abdulla</td>
<td>Abu Dhabi Company for Onshore Petroleum Operations Limited (ADCO)</td>
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<td>Khaled A. Al-Buraik</td>
<td>Saudi Aramco</td>
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<td>Ali Al Gheithy</td>
<td>Petroleum Development Oman</td>
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<td>Mohamed Abdulla Al Hosani</td>
<td>Abu Dhabi Marine Operating Company (ADMA-OPCO)</td>
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<td>Ali Khalifa Al Shamsi</td>
<td>Al Yasat Company for Petroleum Operations</td>
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<td>Sungjin Chang</td>
<td>Abu Dhabi Korea National Oil Corporation</td>
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<td>Hosnia Hashim</td>
<td>Kuwait Foreign Petroleum Exploration Company (KUFPEC)</td>
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<td>Bill Henry</td>
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<td>Makoto Ichikawa</td>
<td>Japan Oil, Gas and Metals National Corporation (JOGMEC)</td>
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<td>Mars M. Khasanov</td>
<td>Gazprom Neft</td>
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<td>Anelise Quintão Lara</td>
<td>Petrobras</td>
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<td>Pedro Silva López</td>
<td>Pemex</td>
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<td>Tapas Kumar Sengupta</td>
<td>Oil and Natural Gas Corporation (ONGC)</td>
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<td>Sharbini Suhaili</td>
<td>PETRONAS</td>
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<td>Hisham Zubari</td>
<td>Tatweer Petroleum</td>
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## Programme Chairs

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<tr>
<th>Name</th>
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<tr>
<td>Khalid A. Zainalabedin</td>
<td>Saudi Aramco</td>
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<tr>
<td>Terry Palisch</td>
<td>Programme Vice Chair, CARBO Ceramics</td>
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## Specialty Coordinators

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<tr>
<th>Name</th>
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<tr>
<td>Clint Quattlebaum</td>
<td>Drilling and Completions, Halliburton</td>
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<tr>
<td>Ann Smith</td>
<td>Health, Safety and Environment, GSI Environmental</td>
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<tr>
<td>Randahl Roadifer</td>
<td>Production and Operations, Memorial Resources Development</td>
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<tr>
<td>Ray Rui</td>
<td>Projects, Facilities and Construction, Independent Project Analysis</td>
</tr>
<tr>
<td>Frank Platt</td>
<td>Management and Information, Texas A&amp;M University</td>
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<tr>
<td>Luis Ayala</td>
<td>Reservoir Description and Dynamics, Pennsylvania State University</td>
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## Programme Committee

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<tr>
<td>Michael Wells</td>
<td>Drilling, GE Oil &amp; Gas</td>
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<td>Rajesh Chanpura</td>
<td>Well Completions, Schlumberger</td>
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<tr>
<td>Majed Al-Suwailem</td>
<td>Management, Saudi Aramco</td>
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<tr>
<td>George Zangi</td>
<td>Digital Energy, Schlumberger</td>
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<tr>
<td>Badarinadadh Vissapragada</td>
<td>Education, Training and Professionalism, Schlumberger</td>
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<tr>
<td>Jing Du</td>
<td>Well Stimulation, Total</td>
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<tr>
<td>Smina Al-Mahrooqi</td>
<td>Formation Evaluation, Petroleum Development Oman</td>
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<tr>
<td>Sameeh Batarseh</td>
<td>Reservoir Geology and Geophysics, Saudi Aramco</td>
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<td>Ray Rui</td>
<td>Projects, Facilities and Construction, Independent Project Analysis</td>
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<tr>
<td>Carol Piovesan</td>
<td>Petroleum Advanced Analytics, APO Offshore</td>
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<tr>
<td>Mohamed Ghareeb</td>
<td>Well Operations, Lufkin Middle East</td>
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<tr>
<td>Ajay Kumar</td>
<td>Production Monitoring and Control, Oil and Natural Gas Corporation (ONGC)</td>
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<tr>
<td>Matt Honapour</td>
<td>Recovery Mechanisms and Flow in Porous Media, BHP Billiton</td>
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<tr>
<td>Peggy Rijken</td>
<td>Reservoir Engineering, Chevron</td>
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<tr>
<td>Alejandro Primera</td>
<td>Reservoir Monitoring, Primera Reservoir</td>
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</table>
Regional Programme Support Committee

Mouza Al Houqani
Zakum Development Company (ZADCO)

Qasem Al Kayoumi
Abu Dhabi National Oil Company (ADNOC)

Faisal Al Mahroos
BAPCO/Tatweer Petroleum

Saoud Al Shamsi
Zakum Development Company (ZADCO)

Mohammed Badri
Schlumberger

Joga Baines
Proserv

Nick Baker
Petrolink International

Tijs Beek
Shell

Michael Bittar
Halliburton

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Jacque Bourque
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Weatherford

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PETRONAS Carigali Sdn Bhd

Mohamed Hashem
Dragon Oil

Amr Hassan
Linde Group

Ray Johnson
Unconventional Reservoir Solutions

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SK Oilfield Equipment

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OILSERV

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ExxonMobil

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Iain Percival
University of Aberdeen

Arun Pushkarna
National Drilling Company

Mohammed Moanes Shahat
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Subsea 7

Maike Willuweit
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<td>0800-0940 hours</td>
<td>SADIYAH E</td>
<td>Opening Ceremony (SHEIKH RASHID)</td>
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<td>1030-1200 hours</td>
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<td>Treasure Session: How is Exploration 2.0 Reinventing the Energy Industry?</td>
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<td>Successful Strategies for Regional Interest—Novel Technologies and Case Studies</td>
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<td>New Applications of Unconventional Reservoirs</td>
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<td>Regional Interest—Academia Managing in a Changing Industry</td>
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<td>New Completion Technology—Novel Technologies, Workflows and Applications</td>
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<td>Enhancing Fluid Management and Handling: New Horizon for Enhanced Oil Recovery</td>
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<td>Plenary Session 9: How is Exploration 2.0—Transforming and Shaping the Future (SHEIKH RASHID)</td>
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<td>Plenary Session 10: Special Session 1: ERD Chemicals</td>
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<td>Plenary Session 11: Local Content and Diversity</td>
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OPENING, PLENARY AND PANEL SESSIONS

OPENING CEREMONY:

Opening Keynote:
Amin H. Nasser
President and CEO
SAUDI ARAMCO

Welcome Keynote:
Abdul Munim Saif Al Kindy
Director, Exploration Development and Production
ABU DHABI NATIONAL OIL COMPANY (ADNOC)

Welcome Address:
Nathan Meehan
2016 SPE President
BAKER HUGHES

PLENARY SESSIONS:
E&P 2.0—TRANSFORMING AND SHAPING THE FUTURE

Speakers:
Nizar Mohammad Al-Adsani
Deputy Chairman and CEO
KUWAIT PETROLEUM CORPORATION

D.K. Sarraf
Chairman and Managing Director
OIL AND NATURAL GAS CORPORATION (ONGC)

Mohammed Y. Al-Qahtani
Senior Vice President, Upstream
SAUDI ARAMCO

Omar Suwaina Al Suwaidi
Director, Gas Management Directorate
ABU DHABI NATIONAL OIL COMPANY (ADNOC)

Datuk Anuar Taib
Executive Vice President and CEO, Upstream
PETRONAS

Arnaud Breuillic
President Exploration and Production TOTAL

Moderator:
Eithne Treanor
Founder and Managing Director
E. TREANOR MEDIA

PANEL SESSION 1:
RADICAL NEW IDEAS: INNOVATION BEYOND THE LIMITS

Moderator:
Khalid Nouh
BAKER HUGHES

Speakers:
Waleed A. Al-Mulhim
Manager, EXPEC Advanced Research Center
SAUDI ARAMCO

Alisa Choong
Executive Vice President, Technical and Competitive IT
SHELL

Roberto Dall’Omo
Senior Vice President, Upstream R&D
ENI

Greg Powers
Vice President, Technology
HALLIBURTON

PANEL SESSION 2:
PROJECT MANAGEMENT: GETTING IT RIGHT

Moderator:
Neeraj Nandurdikar
Director, Oil & Gas Practice
IPA

Speakers:
Fuad Al-Azman
General Manager, Jazan Area Project Management
SAUDI ARAMCO

Bill Henry
Vice President, Development Deepwater and Heavy Oil, Chief Petroleum Engineer
SHELL

Anelise Quintão Lara
Executive Manager, Acquisitions and Divestments
PETROBRAS

Bill Morrice
Production Management Vice President Wells and Operations Integrity
SCHLUMBERGER

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PANEL SESSION 3:
BOOSTING EFFICIENCY IN E&P

Moderator:
Amran Al Marhubi
Technical Director
PETROLEUM DEVELOPMENT OMAN

Speakers:
Mohamed Al Mutawa
Manager, Production and Facilities Engineering
ABU DHABI NATIONAL OIL COMPANY (ADNOC)
AbdulHameed Al-Rushaid
Executive Director (A), Drilling & Workover
SAUDI ARAMCO
Hans-Christian Freitag
Vice President, Integrated Technology
BAKER HUGHES
Jim Friedheim
DS Marketing and Technology Manager
M-I SWACO and Scientific Advisor
SCHLUMBERGER
Tapas Kumar Sengupta
Director (Offshore)
OIL AND NATURAL GAS CORPORATION (ONGC)

PANEL SESSION 4:
COLLABORATION 2.0—REINVENTING THE E&P INDUSTRY

Moderator:
Anelise Quintão Lara
Executive Manager, Acquisitions and Divestments
PETROBRAS

Speakers:
German Burmeister
Vice President, Brazil
SHELL
Solange Guedes
Chief Exploration and Production Officer
PETROBRAS
Michel Hourcard
President and CEO
TOTAL E&P AMERICAS
Oswaldo Pedrosa
CEO
PRE-SAL PETROLEO SA (PPSA)
Xiandeng Ye
President
CNPC LATIN AMERICA LIMITED
Hongbo Zhou
Vice President
CNOC INTERNATIONAL LIMITED

PANEL SESSION 5:
SUCCESSFUL STRATEGIES FOR MITIGATING THE EFFECT OF BOOM AND BUST

Moderator:
Fareed Abdullah
Senior Vice President, North East Bab (NEB)
ABU DHABI COMPANY FOR ONSHORE PETROLEUM OPERATIONS LIMITED (ADCO)

Speakers:
Abdul Jaleel Al Khalifa
CEO
DRAGON OIL
Wafaa' Al-Za'abi
Managing Director, Planning & Finance
KUWAIT PETROLEUM CORPORATION
Amerino Gatti
President, Production Group
SCHLUMBERGER
David Reid
Chief Marketing Officer
NOV
Adif Zulkifli
Senior Vice President, Corporate Strategy
PETRONAS

PANEL SESSION 6:
THE NEXT GENERATION (YP 2.0): TALENT MANAGEMENT FOR FUTURE ENERGY

Moderator:
Aseel Hamoodi
Vice President Talent & Capability Management
ABU DHABI COMPANY FOR ONSHORE PETROLEUM OPERATIONS LIMITED (ADCO)

Speakers:
Mohamed Al Marzouqi
Manager, Offshore Reservoir Engineering
ABU DHABI NATIONAL OIL COMPANY (ADNOC)
Zeid Al-Ghareeb
Special Simulation Studies Unit Head
SAUDI ARAMCO
Assim Alsuhaibani
Vice President and General Manager
Operations, Qatar, Pakistan and Yemen
SCHLUMBERGER
Arnold Frinks
Global Director, Production Services
WEATHERFORD
REGIONAL INTEREST SPECIAL SESSION 1:
BIG DATA, ANALYTICS AND IMPACT

Moderator: Satyam Priyadarshy
Chief Data Scientist
HALLIBURTON

Speakers:

- Sami Al-Nuaim
  Manager, Petroleum Engineering Application Services Department
  SAUDI ARAMCO

- Bettina Bachmann
  Vice President Subsurface & Wells Software Technical and Competitive IT
  SHELL

- Nick Baker
  Executive Vice President, Business Development
  PETROLINK

- Ken Braud
  Senior Vice President and Chief Information Officer
  HALLIBURTON

- Neil Eklund
  Chief Data Scientist
  SCHLUMBERGER

REGIONAL INTEREST SPECIAL SESSION 2:
HOW IS ACADEMIA MANAGING IN A CYCLIC ENVIRONMENT?

Moderator: Thomas Hochstettler
President
THE PETROLEUM INSTITUTE

Speakers:

- Abdulaziz Al Kaabi
  Dean, College of Petroleum Engineering & Geosciences
  KING FAHD UNIVERSITY OF PETROLEUM & MINERALS (KFUPM)

- Sebastian Geiger
  Foundation CMG Chair and Director of Research, Institute of Petroleum Engineering
  HERIOT-WATT UNIVERSITY

- Ron Hinn
  Vice President of Account Management
  PETROSKILLS

- Sam Noynaert
  Assistant Professor, Harold Vance Department of Petroleum Engineering
  TEXAS A&M UNIVERSITY

- Salam P. Salamy
  Senior Petroleum Engineering Consultant and Administrator,
  Upstream Professional Development Center
  SAUDI ARAMCO

REGIONAL INTEREST SPECIAL SESSION 3:
UNCONVENTIONAL AND TIGHT GAS RESERVOIRS

Moderator: David Khemakhem
Vice President of Well Operations
ZAKUM DEVELOPMENT COMPANY (ZADCO)

Speakers:

- Khalid Abdelqader
  Unconventional Exploration Manager
  SAUDI ARAMCO

- David Adams
  Senior Vice President, Completion and Production Division
  HALLIBURTON

- Mo Cordes
  President of Integrated Production Services
  SCHLUMBERGER

- Darcy Spady
  Managing Director
  BROADVIEW ENERGY

Updates after 30 May are not reflected. For the latest updates, visit www.spe.org/go/atce2016
REGIONAL INTEREST SPECIAL SESSION 4:
HUMAN CAPITAL AND THE IMPACT OF LOW OIL PRICES

Moderator:
Mike Cunningham
Head of Subsurface Support Team and Well, Reservoir & Facility Management Advisor
MAERSK OIL QATAR

Speakers:
Ibtisam Al Riyami
People and Change Director
PETROLEUM DEVELOPMENT OMAN

Fabrice Bouchaud
Global HR Manager
SCHLUMBERGER

Nathalie Rush
Head of Human Resources
MAERSK OIL QATAR

REGIONAL INTEREST SPECIAL SESSION 5:
GETTING THE MOST FROM MATURE FIELDS

Moderator:
Patrick O’Brien
CEO
ITF ENERGY PARTNERS

Speakers:
Jamal Al-Khonaifer
Manager, Strategic Planning and Reserves Department
SAUDI ARAMCO

Robert Deutman
Vice President, Development Joint Ventures and RDS Chief Reservoir Engineer
SHELL

Hans-Christian Freitag
Vice President, Integrated Technology
BAKER HUGHES

Oliver Mullins
Senior Applied Research Scientist
SCHLUMBERGER

REGIONAL INTEREST SPECIAL SESSION 6:
EXPLORATION 2.0

Moderator:
Mohammed Badri
Managing Director, Dhahran Carbonate Research Center
SCHLUMBERGER

Speakers:
Ibraheem Assa’adan
Executive Director Exploration
SAUDI ARAMCO

Adnan Omar Bu Fateem
Exploration Director
MUBADALA PETROLEUM

Jonathan Evans
Vice President Iran
BP EXPLORATION

Aaron Gatt Floridia
President of Reservoir Characterisation Group
SCHLUMBERGER
Session 1  NEW TECHNOLOGY  This session will focus on the development of new technology for the production and operation facility. Topics include high salinity high temperature chemical EOR pilot, sand erosion for cyclone separator, subsea multi-phase pump, and separation technology.

Session 2  DIGITAL ENERGY: DATA MANAGEMENT  Presentations will provide insight into measuring real-time data and reporting through innovation, improving reliability and efficiency.

Session 3  NEW TECHNOLOGY: INNOVATIVE AND SUCCESSFUL APPLICATIONS  This session will focus on the innovative and successful applications of new technologies which help improve real-time well diagnosis integrity, intervention and downhole control.

Session 4  NEW COMPLETION TECHNOLOGY  Advancements in materials and techniques for completions in high pressure and high temperature environments.

Session 5  DRILLING FLUIDS/BITS  This session will include a wide range of topics varying from pressure drop calculations, transient hole cleaning effects to new PDC cutter for improving drilling efficiency. Other topics covered are new hybrid bits and the new additive system used in the longest horizontal well.

Session 6  PROPPANT TRANSPORT AND PLACEMENT  This session will cover the recent advances to maximise fracture effectiveness by optimised proppant placement and technology.

Session 7  PVT: FLUID PROPERTIES/SAMPLING  This session will present several novel fluid properties and phase equilibria related applications, research and development work. The presentations discuss the computation of IFT and address the computational side of PVT for various applications using non-classical cubic EOS’s for complex fluid systems. Furthermore, the session will extend to coupling the PVT/compositions in terms of well testing to sampling to reduce uncertainty in reservoir dynamics and description.

Session 8  NEW TECHNIQUES IN CARBONATE PETROPHYSICS  This session will focus on case studies of novel methods for analysing petrophysical data in an integrated fashion to better characterise carbonate reservoirs in the Middle East.

Session 9  ADVANCES IN UNDERSTANDING OF SHALE GAS TRANSPORT, RECOVERY ENHANCEMENT AND SIMULATION MODELLING  Unconventional tight reservoirs have relatively low production rates and recovery factors. It is important to understand shale gas storage, transport, and driving forces, such as capillary, osmotic, and imbibition, etc. This session focuses on shale gas transport and pore level modelling with effects of confined pore spacing, geomechanics, and low velocity on shale gas production performance.

Blended Session 1  This session will be a blend of presentations from across all SPE Disciplines. Featured presentations will discuss oil droplet removal, multidisciplinary innovation techniques, repairing casing leads and much, much more.

For the full list of technical papers, visit www.spe.org/go/atce2016.
Session 10  FIELD AND LAB DEMONSTRATION OF ADVANCED INTEGRATED RESERVOIR WORKFLOWS The session will present a series of field cases and lab studies where the use of advanced integrated workflows for the reservoir description led to substantial and quantified economic benefits. These integrated workflows encompass a wide scale from microscopic pore size analysis to basin scale hydrogeology through well and reservoir scales. They are applied to a series of geological settings and lithology, i.e. carbonate fractured or not, clastic, coal bed methane, etc.

Session 11  DOWNHOLE SENSING, FLOW MONITORING AND CONTROL With rapid developments in downhole fibre optical sensing technology for monitoring and control, this session will present new advances and applications in distributed temperature, acoustic and vibration sensor as solutions to production problems.

Session 12  WELL OPERATIONS BEST PRACTICES AND CASE STUDIES This session will highlight several case studies on well operations and integrity in maximising well uptime through effective well operations. These best practices lead to the successful start-up of inactive wells through rigless operations. Selected fields will be from Middle East countries, North Sea and deep water Africa.

Session 13  SAND CONTROL AND ICD COMPLETIONS This session will review a selection of sand control and ICD completion case studies, as well as advancements in sand prediction modelling and gravel pack completions.

Session 14  DRILLING OPERATIONS The current economic environment has pushed the industry into looking at new ways to improve efficiencies. The papers contained in this session illustrate ways of cutting rig time, enhancing performance, enabling longer reach wells and overall cost cutting.

Session 15  ADVANCES IN MATRIX ACIDISING OF CARBONATE RESERVOIRS This session will cover very important and interesting topics ranging from modelling of wormhole propagation, lab work that relates wormhole to pore structure, acidising dolomite formation, diversion, field monitoring and cases.

Session 16  CRUDE PRICES ANALYSIS AND RESERVES CLASSIFICATION What would the oil prices look like in 2017 and in the future? How long will it take the oil prices to reach 2014 levels if they are to come back again? What are the new opportunities and emerging trends in reserves assessment? Would it be possible to extend petroleum reserves classification and governance in new frontiers beyond E&P? This session will cover various papers and case studies in reserves and resources estimation and classifications, and crude oil price analysis and forecasts.

Session 17  RESERVOIR INTEGRATED CASE STUDIES This session will highlight several case studies on the application of well data integration, assisted history matching, and analyses of variability of flow as well as composition for reservoirs covering a wide range of geologic settings. Selected fields will be from Middle East, deep water Africa, offshore Norway, Italy’s Adriatic Sea, and US’ Permian Basin.

Session 18  EOR CHEMICALS This session will focus on the enhanced oil recovery processes using different chemicals, including surfactant, polymer, foam, in-situ gel treatment and preformed particle gels. It combines lab experiments, numerical simulation and field trials. It covers carbonate, sandstone and heavy oil reservoirs.

Special Session 1  INCREASED WATER CUT—HOW TO HANDLE A full understanding of upstream and downstream operations of separation equipment will provide the key to managing increased water cut. This special session will focus on oil fields producing water and how to handle increases in water cuts along with resulting stream compositions affecting separation. The session will also focus on options to manage operations to maintain an economical position. Through equipment, chemistry, debottlenecking, and proper planning, operations can continue to operate profitably with available technology. Emphasis will be placed on available technologies with insight into future technologies targeted.

Special Session 2  PROCESSES AND TECHNOLOGIES The Drilling Uncertainty Prediction Technical Section will feature panel presentations from industry experts on integrating data silos, data standardisation, prediction ahead of the bit, and reducing uncertainty and costs using prediction technologies. There will be a facilitated discussion followed by breakout groups focused on drilling analytics, data quality, subsurface and more.

For the full list of technical papers, visit www.spe.org/go/atce2016.
### TECHNICAL AND SPECIAL SESSIONS

**TUESDAY, 27 SEPTEMBER 2016 | 0830–1155 HOURS**

| Session 19 | PROJECT PLANNING AND DEVELOPMENT | This session will cover how to improve offshore and onshore project performance in terms of applying best practices of planning, development and operations. Topics include new technology for ultra-deep water projects, largest flare reduction projects, mature fields, concepts selection, new tools and applications.
| Session 20 | DIGITAL ENERGY: MANAGING AND OPTIMISING OUR ASSETS | This session will explore the systems, architecture, processes, workflows, security and automation that acquire, validate, store, analyse and disseminate the full spectrum of data generated by our industry to better manage and optimise our assets, and provide a safer, sustainable business.
| Session 21 | IMPROVING FIELD PERFORMANCE THROUGH EFFECTIVE RESERVOIR SURVEILLANCE | This session will cover a review of evolving methods in reservoir surveillance with the use of chemical tracers, 4D seismic monitoring and CO₂ injection data. With the evolution of numerical simulation workflows, some of these works show how wellbore monitoring and reservoir surveillance technologies have been used to enhance the subsurface characterisation and field performance forecasting.
| Session 22 | RESERVOIR SIMULATION TECHNOLOGY—NOVEL TECHNIQUES, WORKFLOWS AND APPLICATIONS | This session will focus on novel numerical techniques and application workflows for reservoir flow simulation. Selected papers in this session deal with subsurface-surface coupling, shale-gas simulation, fractured model upscaling, unstructured grids, application of fast Lagrangian techniques, assisted history matching, and uncertainty quantification.
| Session 23 | WELLBORE INTEGRITY AND ZONAL ISOLATION | Drilling operations and geo-mechanical factors that affect well integrity are growing concerns in today’s complex reservoir environment. This session highlights technological developments in geo-mechanical modelling, fibre optics for isolation monitoring, as well as a cementing tool enabling innovative cement placement. It will highlight improvements to casing as well as drill string design, advanced cement evaluation methods, and zonal isolation modelling which all lead to maintaining proper well integrity.
| Session 24 | FRACTURING CASE HISTORY | This session will showcase a number of case histories which provide insight to real-world stimulation results in a variety of environments. Presentations will cover the regions of Saudi Arabia, Egypt, India and North America. The selected studies range in scope from several wells to hundreds, improving the understanding of fractured well performance and insight into field development strategies.
| Session 25 | NOVEL CHARACTERISATION METHODS TO REVEAL RESERVOIR POTENTIAL | The session presents a series of novel characterisation methods aimed at revealing the true potential of reservoirs. These methods encompass quantitative geological history modelling, advanced seismic interpretation, geometry prediction, etc. They are applied to a variety of environments: subsalt, clastic and carbonate reservoirs, naturally fractured formations, fluvial deposition, etc.
| Session 26 | ADVANCES IN DYNAMIC FORMATION EVALUATION | This session will focus on the importance of downhole fluid sampling analysis, interference tests with formation testers, nuclear magnetic resonance data, reservoir fluid geodynamics, and the first dual-zone drill stem test with acoustic telemetry.
| Session 27 | INTEGRATION OF ROCK-FLUID MEASUREMENTS AND DRIVING FORCE EFFECTS | This session will focus on recent advances in the understanding of fluid flows in unconventional reservoirs, particularly diffusive flows, capillary condensation, and osmotic forces, which are explored with laboratory measurements, theoretical studies, and numerical simulation and modelling.
| Special Session 3 | THE WAY TO MOVE FORWARD IS TO LOOK BACK | How we see the future of any situation is often dictated by our past experiences. In times of rapid change, people define themselves and their careers by what they will NOT do. This session considers the present parlous state of the E&P industry and compares it with previous downturns. What lessons did we learn and should we have learnt from earlier crises? And what differences are there this time around, which could make different responses better? How can we best prepare for and manage a career in a time of economic uncertainty, rapid technical deployments, and a potentially catastrophic loss of knowledge and experience as people leave our industry through retirement and attrition? The goal of this session is to engage, empower, and inspire people to understand the past and present, and also to recognise and prepare for the technical and economic challenges of the future.

For the full list of technical papers, visit [www.spe.org/go/atce2016](http://www.spe.org/go/atce2016).
Session 28  FLOW ASSURANCE Studies and models were conducted to address flow assurance challenges including replacement of platform, sand erosion, leak points in gas pipelines, and flow assurance strategy and economics.

Session 29  PRODUCTION OPTIMISATION: INNOVATE, INTEGRATE, IMPLEMENT (I/three.sup) This session will present the fusion of Innovation, Integration and Implementation (I') of new technologies for production enhancement with an additional focus on challenges for sustainability under tumbling oil prices. The subjects include infrared-based scale inspection, halite deposition to full field optimisation.

Session 30  PORTFOLIO MANAGEMENT, PROCESS OPTIMISATION AND ECONOMICS Oil and gas companies are challenged to manage their investment portfolios and make solid economic and investment decisions given current volatile oil prices and other factors. The session will cover many papers and case studies in portfolio optimisation.

Session 31  COMPLETION CASE STUDIES This session will present case histories highlighting innovative completion diagnostics and practices in well testing, sand control and stimulation operations.

Session 32  ZONAL ISOLATION TECHNOLOGIES—DELIBERATING DEPENDABLE BARRIERS Providing effective zonal isolation is becoming increasingly complex in today’s wellbore environments. This session addresses novel cementing technology, successful cementing practices and case studies that can help deliver competent and dependable barriers in the wellbore.

Session 33  FRACTURING PERFORMANCE This session will include a number of new and exciting topics for enhancing well performance in hydraulic fracturing. These include re-fracturing horizontal wells, use of fibre optics for real-time fracture diagnosis, microseismic mapping, and applications of reservoir engineering.

Session 34  NEW TECHNIQUES IN RESERVOIR SURVEILLANCE AND WELBORE MONITORING This session will discuss the cutting edge technology and innovative workflows used in different parts of the world to survey wells and reservoir performance. Papers presented in this session will cover topics such as innovative tools to estimate petrophysical parameters, and the use of new methodologies to describe workflow efficiency in different types of reservoirs using the conventional techniques such as transient analysis. Additional papers use statistical learning techniques such as neural networks to describe geological processes that can affect the reservoir performance and pressure-rate communication through wells in the same reservoir.

Session 35  ENHANCED OIL RECOVERY (EOR) MECHANISMS This session will cover theoretical studies and field applications of various EOR techniques. Topics include viscosity and wettability alterations, heavy oil reservoirs, CO₂ injection, polymer flooding, waterflood optimisation, and incremental recovery from liquid-rich shale reservoirs.

Session 36  SALINITY AND NANO PARTICLES, IMPACT ON DISPLACEMENT EFFICIENCY This session will focus on low salinity displacement processes including low salinity brine injection with nano particles/nano fluids, their interaction with carbonates and sandstone formations and their effect on wettability alteration and asphaltene stability.

Special Session 4  LOCAL CONTENT AND DIVERSITY Diversity efforts in our industry should not fluctuate with oil price as they unfortunately tend to. Building cultural diversity combined with gender diversity is a long-term initiative requiring leadership conviction and perseverance. What is called development of local content has been and still is the most urgent and crucial objective for the industry as it has to do with: (1) Improving the ability of the education system and of the universities to deliver continuously well-educated engineers and technicians. (2) Increasing the commitment of oil and gas companies and the whole supply chain associated with the oil and gas business to hire and develop men and women from the country. Research shows that out of 10 jobs created by the oil and gas industry 9 are in the supply chain. (3) Accelerate efforts to develop local talent to a “level of autonomy”. This requires coordinated action and investment from the oil and gas sectors to use best-in-class training technology. Research shows that huge efficiency gains could be achieved in this field. (4) Get oil and gas companies to adopt a “farmer” approach as opposed to a “poacher” approach and use regulations to encourage companies to develop young talent from universities, vocational schools and high schools. It has proven to be good for the companies, for the industry and for the country. (5) Expose local talent to international opportunities to avoid having their career limited in the oil and gas sector and to allow them to reach the highest level of responsibility in their own company. Women are a natural extension and enrichment of the company culture and image up-to-date with our times, and to access the best men and women talent.

Special Session 5  MANAGING THE OIL INDUSTRY CYCLES: EMPLOYEE, STUDENTS, AND EMPLOYER PERSPECTIVE The oil and gas industry has seen its share of ups and downs. The SPE Talent Taskforce will hold a panel discussion to assist SPE members and employers on how to navigate uncertain market conditions. Panelists will share their experiences of past industry cycles and what they have learnt from these cycles and will address the employee, students and employer perspective. The panelists will leverage their vast industry experience and will share tips, tricks and skillsets that are important to the employee to weather the cyclic nature of the industry, and will address what employers can do to protect the talented skill pool from the industry cycle.
<table>
<thead>
<tr>
<th>Session 37</th>
<th>i</th>
<th>COMPETENCY AND PROFESSIONALISM IN A CHANGING INDUSTRY</th>
<th>Given the loss of senior technical professionals, how will early retirements and cost cutting change the demographic profile of our industry? How will these unfavourable conditions lead to changes in the experience profile? How will these changes accelerate the “Big Crew Change” in the industry? In this session, authors will discuss some of the strategies for competency and professional development in today’s challenging market and offer thoughts to manage through the downturn as well as prepare for the future.</th>
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<tbody>
<tr>
<td>Session 38</td>
<td>i</td>
<td>NEW APPLICATIONS OF ADVANCED ANALYTICS IN WELL, RESERVOIR AND FACILITIES MANAGEMENT</td>
<td>Papers in this session focus on low cost, rapid means of improving efficiency and effectiveness, especially in a small workforce and extremely price-challenged environment. Data mining, artificial intelligence and machine learning technologies have come of age as enablers of smarter well and reservoir management tools. Sifting through much larger amounts of data than humans can, and applying learning and inference skills borrowed from human thinking, these technologies complement human expertise in advanced well and reservoir management tasks. This session will look at critical case studies from implementation programmes, emerging techniques and intelligent applications of advanced analytics modelling enabled by large-scale, high-dimensional data streams, to enhance value across exploration, production, and operations.</td>
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<td>Session 39</td>
<td>i</td>
<td>UNCONVENTIONAL RESERVOIR ENGINEERING: PUSHED IT TO THE LIMIT AND BEYOND</td>
<td>A paramount technical session to learn and discover engineering aspects in tight and shale reservoirs. From analytical modelling in nano porous media and micro-seismic integration to multiple techniques in rate transient analysis, you are guaranteed to get applicable knowledge from all around the world. We also revise effective application of current decline curves techniques to improve your confidence handling these reservoirs. Evaluation of stimulation effectiveness and novel conceptual models in pressure and production for shale gas, experimental studies in gas-liquid-coal are topics this session will cover.</td>
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<td>Session 40</td>
<td>i</td>
<td>COMPLETION OPTIMISATION</td>
<td>This session will highlight innovative approaches to improve well performance and reduced well costs. The papers include completion optimisation case histories and the use of diagnostic tools and data analysis to optimise completion efficiency.</td>
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<tr>
<td>Session 41</td>
<td>i</td>
<td>DRILLING TECHNOLOGY INNOVATIONS</td>
<td>This session will showcase advances in well design, execution and optimisation through calculations and modelling techniques and the use of diagnostic tools and data analysis to optimise drilling efficiency and efficacy.</td>
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<td>Session 42</td>
<td>i</td>
<td>GEOMECHANICS AND HYDRAULIC FRACTURING</td>
<td>Key geomechanical parameters have a major influence on the lateral landing point selection of the well and the optimisation of its multi-stage hydraulic fracturing design. The impact of rock geomechanics at the regional, field, and lab scales are explored. Mechanistic models exploring sensitivities, some unconstrained and some matched with field data show how geomechanical properties impact production, recovery and operations. Several selected papers in this session encompass the interaction between the hydraulic fracture and faults and natural fractures both at the engineering and modelling level and at the detection and model validation level. Other selected papers cover the growing understanding about how production and depletion of older wells dynamically impact the stress field of new wells.</td>
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<tr>
<td>Session 43</td>
<td>i</td>
<td>INNOVATION IN ENVIRONMENTAL PROTECTION</td>
<td>In recent years the protection of our environment and sustainable work processes have continued to grow in importance. Due to its nature, the environmental field is especially prone to producing new technologies. Come explore some of the leading edge technologies and processes being implemented to improve environmental performance.</td>
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<tr>
<td>Session 44</td>
<td>i</td>
<td>EMERGING LOGGING TECHNOLOGIES AND INTERPRETATION METHODS</td>
<td>This session will focus on new innovative logging technologies, measurements and log interpretation methods. Applications include dielectric, nuclear, multicomponent resistivity and NMR as used in quantifying reservoir rock properties, fluid saturations and fracture detection.</td>
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<td>Session 45</td>
<td>i</td>
<td>HEAVY OIL ENHANCED RECOVERY</td>
<td>This session will focus on flow visualisation, mechanism and enhanced oil recovery for heavy oil reservoirs, including solvents, steam, gases and surfactants.</td>
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<td>Blended Session 2</td>
<td>i</td>
<td>NEW TECHNOLOGIES AND PEOPLE COMPETENCIES FOR INTEGRATED FLOW ASSURANCE SOLUTIONS</td>
<td>This session will be a blend of presentations from across all SPE Disciplines. Featured presentations will discuss oil droplet removal, multidisciplinary innovation techniques, repairing casing leads and much, much more.</td>
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<tr>
<td>Special Session 6</td>
<td>i</td>
<td>If you ask 10 specialists, “What is Flow Assurance?”, you are likely to receive 10 different answers! Flow Assurance (FA) has been a maturing concept in the oil and gas industry since the 1980s, covering oil and gas field developments in ever-deeper water offshore, longer distances from existing infrastructure, harsh onshore environments, unconventional developments with more challenging fluids, such as heavy oil and shale gas. The significance of flow assurance comes from its impact on all components in the production system, from reservoir to separator, and from the financial, human, production, and asset losses involved when flow assurance fails. In this panel session, three aspects of flow assurance will be presented, namely FA challenges in brown fields, in green fields, and the development and maintenance of a highly-skilled workforce. Field cases from around the world and the Middle East region will be shared during the panel session on specific FA issues in conventional and unconventional developments such as organic and inorganic solid deposition, sand production, plugging, and emulsions to illustrate the impact of FA on project economics and safety.</td>
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<td>Session 46</td>
<td>COST-EFFECTIVE TRAINING AND DEVELOPMENT</td>
<td>Cost-effective training and development of employees is the need of the hour in these challenging times for the oil and gas industry. This session will focus on the methods and strategies that will help to achieve effective training and development in a constrained budget environment.</td>
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<td>Session 47</td>
<td>INTEGRATED WELL MODELLING AND MANAGING FLOW ASSURANCE</td>
<td>This session will focus on integrated modelling of production systems. The presentations include coupling reservoir models and well models dynamically to assess downhole flow condition and identify challenging production problems.</td>
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<tr>
<td>Session 48</td>
<td>ARTIFICIAL LIFT TECHNOLOGY AND APPLICATIONS</td>
<td>This session will focus on the performance and successful applications of artificial lift systems for extending lifetime and operation efficiency in oil and water wells. The best practices and successful application of artificial lift systems in dewatering of CBM wells and deliquification of gas wells will be highlighted. This is in addition to the proper design and selection of beam pumping for steam stimulation heavy oil wells.</td>
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<tr>
<td>Session 49</td>
<td>ENHANCING RESERVOIR CONTACT: NEW TECHNOLOGY FROM PERFORATING TO FRACTURING</td>
<td>Good reservoir contact is one of the keys to a productive well. The latest methods for efficiently and safely optimising the fracture are covered in this session. Microseismic and tracer field data are used to optimise the reservoir contact. Improved reservoir contact is also achieved with improvements in perforating technology.</td>
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<td>Session 50</td>
<td>MPD/WELL CONTROL</td>
<td>This session will focus on well control during drilling, well workover, and well completions. It will also talk about using technology for well control such as Managed Pressure Drilling (MPD) application which is used especially for narrow margin drilling which is often the case for HPHT drilling. The deep plays where the industry is focused on today will definitely benefit from this session.</td>
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<tr>
<td>Session 51</td>
<td>WELL TESTING AND MODELLING</td>
<td>This session will focus on the latest innovations in well testing and modelling to improve our understanding of reservoirs.</td>
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<td>Session 52</td>
<td>INNOVATION IN SAFETY AND HEALTH</td>
<td>The safety and health of our personnel are a primary concern. The field is constantly growing and new technologies and best practices are developed regularly. In this session, we take a look at some of the recent innovations.</td>
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<td>Session 53</td>
<td>FORMATION EVALUATION</td>
<td>This session will consider new applications of integrated formation evaluation to static and dynamic reservoir description. Special emphasis is given to the study of non-conventional reservoirs using innovative formation evaluation methods.</td>
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<td>Session 54</td>
<td>GAS INJECTION EOR AND SEQUESTRATION</td>
<td>This session will focus on the study of various types of CO₂ injection in EOR processes including nano particles and their effect of carbonated water and ionic composition of water in conventional and tight rocks.</td>
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<tr>
<td>Blended Sessions 3 and 4</td>
<td>These sessions will be a blend of presentations from across all SPE Disciplines. Featured presentations will discuss oil droplet removal, multidisciplinary innovation techniques, repairing casing leads and much, much more.</td>
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For the full list of technical papers, visit www.spe.org/go/atce2016.
SUNDAY, 25 SEPTEMBER

0700–1700 hours | Dubai Ballroom 1, JW Marriott Marquis
Leadership Workshop
Current and future SPE section and student chapter leaders are
invited to engage and share. Every attendee leaves energised
with a full list of ideas and a support network of fellow leaders.
Those sections and student chapters actively participating in this
workshop have consistently been recognised with awards as the
best in SPE.

1000–1400 hours | Fujairah A–C,
Dubai World Trade Centre
KEY Club
The KEY Club, open daily, is an exclusive lounge for key SPE
members. Admittance is granted to those with 25 years or more
of continuous membership, Century Club members, current
and former SPE Board officers and directors, Honorary and
Distinguished Members, as well as this year’s SPE International
Award Winners and Distinguished Lecturers.

1300–1700 hours | Sheikh Maktoum B,
Dubai World Trade Centre
SPE Drilling Systems Automation Technical Section Symposium
Urban Automation: Lighting the Way for Drilling System
Automation
DSATS (SPE’s Drilling Systems Automation Technical Section)
will hold a half-day symposium featuring keynote presentations
on urban automation. This symposium will explore technologies
being used in developing smart cities through the automation of
their infrastructure, transportation systems, energy distribution,
water systems, street lighting, refuse collection, etc. These
efforts rely on many of the same tools needed for drilling
systems automation yielding increased efficiencies, lower
maintenance and reduced emissions. Their knowledge and
experience can guide the path being travelled by the oilfield
drilling industry.

1330–1500 hours | Dubai E, Dubai World Trade Centre
International Faculty Session
The programme at this session will feature a presentation of a
model petroleum engineering university curriculum for
discussion. Experts from industry and academia will participate
in this session.

1400–1700 hours | Al Multaqua Ballroom,
Dubai World Trade Centre
Student Meet and Greet
Make friends from around the world in the lead-up to ATCE.
Special activities at this event help you meet and network with
fellow students.

1630–1830 hours | Dubai E and F, Dubai World Trade Centre
Editorial Review Committee Reception
If you’re a current active reviewer for one or more of SPE’s
technical journals and are planning to attend ATCE in Dubai,
please consider joining us for the Editorial Review Committee
Reception. Join the executive editors, associate editors, and
other technical editors to celebrate recipients of the 2016
Outstanding Technical Editor and A Peer Apart service awards.

MONDAY, 26 SEPTEMBER

0730–1700 hours | Sheikh Maktoum A and D,
Dubai World Trade Centre
PetroBowl®
PetroBowl® is ATCE’s most competitive event. Student chapter
teams from around the world compete in a tournament-style
contest that tests knowledge of the E&P industry.

0800–000 hours | Al Multaqua Ballroom,
Dubai World Trade Centre
25 Year Club/Distinguished Lecturer Breakfast
The 25 Year Club will host a breakfast honouring members with
25 years of SPE membership and Distinguished Lecturers. There
will be a keynote presentation of interest to SPE members. This
ticketed event is open to 25 Year Club Members, Distinguished
Lecturers and all ATCE attendees.

1300–1600 hours | Dubai E, Dubai World Trade Centre
How to Write a Good Technical Paper
SPE is committed to helping authors submit their best possible
paper to conferences and journals. This free 3-hour session
provides guidance on how to write a good proposal and a great
paper. This session includes tips and tricks for making a good
presentation and preparing a paper for the peer-review process.

1900–2130 hours | Sheikh Maktoum C,
Dubai World Trade Centre
SPE Multi Technical Section Dinner: Digital Energy (DETS),
Petroleum Data-Driven Analytics (PD2A) and Research and
Development (RDTs) Technical Sections
Attend this event which will feature collaborative presentations
around the application of new technology development
(advanced analytics, machine learning) and the need for
innovation to meet future challenges in reshaping the oil and gas
industry.

Join fellow professionals and technical section members to hear
invited speakers from relevant disciplines discuss the need for
new technology and draw a futuristic vision on technology’s
biggest impact beyond current constraints. Come network,
share technical information and exchange ideas through informal
discussions.

Enhance your conference experience through focused SPE Technical Section Events.
SPE Technical Section Events at ATCE are open to all attendees; you do not have to
belong to a technical section to attend.

Special events are subject to change. For more details on specific events,
visit www.spe.org/go/atce2016.
TUESDAY, 27 SEPTEMBER

0800–1500 hours | Al Ain D, Hatta B and C, Hatta G and H, Dubai World Trade Centre
International Student Paper Contest (Undergraduate/Masters/PhD)
Watch the winners from the regional contests from around the world compete for the international prize contests taking place across three rooms for the Undergraduate, Masters and PhD divisions.

0800–1600 hours | Dubai A and B, Dubai World Trade Centre
Energy4me Teachers Workshop
The programme believes in the importance of giving teachers the tools they need to comfortably teach students about energy choices and careers. Hands-on activities at teacher workshops provide educators with interactive, age-appropriate experiments using basic household items that illustrate energy concepts. The experiments are inexpensive and can easily be done in the classroom with students.

0830–1230 hours | Sheikh Rashid C, Dubai World Trade Centre
Women in Leadership Session:
The Value of Gender Diversity in Leadership
Over time the discussion around Gender Diversity has started to focus more on the value of diversity to business success. Data suggests that companies with more women on their boards outperform their rivals. This means increased levels of talented female professionals are needed to quickly and effectively move women up the leadership ladder. This special session will focus on the role of female talent in the industry today. The first panel features an exceptional quorum of women and men in senior leadership positions who will provide insights into their personal experiences on this topic while rising into leadership positions. The second panel features young, professional, and talented women who will discuss the current day environment and its specific challenges. The discussion will explore what organisations are doing to help women advance among their ranks as well as challenges faced by being in a dual career situation.

Speakers:

Janeen Judah
2017 SPE President
CHEVRON

Hosnia Hashim
Vice President, Operations
KUWAIT FOREIGN PETROLEUM EXPLORATION COMPANY (KUFPEC)

Rubai Saleh
Majnoon Reservoir Engineer
SHELL

Liz Sturman
BSP Chief Petroleum Engineer
SHELL

0900–1200 hours | Onyx, Novotel, Dubai World Trade Centre
Student Communication Workshop I
This workshop will give students the opportunity to work in a small group to hone their networking abilities, refine their communication skills, and build up a toolkit of essential knowledge for their careers ahead. Students will work in small groups to gain valuable insight into working in a truly global industry, from cultural implications to practical advice for the workplace.

0900–1155 hours | Al Multaqua Ballroom, Dubai World Trade Centre
Soft Skills Workshop I: Leadership
Effective leadership is crucial in achieving results. The industry needs effective and efficient leaders with skills to motivate teams towards the big picture. Develop skills in communications, leading meetings, setting objectives, improving team performance, and contemporary feedback management (includes lunch at noon).

0900–1600 hours | Fujairah A–C, Dubai World Trade Centre
KEY Club
The KEY Club is an exclusive lounge for key SPE members.

0900–1200 hours | Al Multaqua Ballroom, Dubai World Trade Centre
Soft Skills Workshop II: Strategic Tools for Career Success
Uncertainty management is vital. Innovative skills offer solutions in an ever-changing business cycle. Use strategic tools such as experiential learning to achieve technical competencies, balance personal goals, avoid poor leadership pitfalls to produce career success (includes lunch at noon).

1200–1600 hours | Al Multaqua Ballroom, Dubai World Trade Centre
Soft Skills Workshop III: Marketable Team Skills
Become a popular team player who breaks barriers and influences with charisma. Develop interpersonal networking skills. Manage difficult conversations with direct reports, peers or leaders. Learn to demonstrate commitment, manage narcissist leaders constructively and appreciate team members’ contributions (includes lunch at noon).

1200–1600 hours | Al Multaqua Ballroom, Dubai World Trade Centre
Soft Skills Workshop IV: Strategic Planning
Develop strategic, resource-loaded plans. Balance sustainability, climate change, stakeholder management and stability in resource, reserves and production. Manage economic levers in the short and long term. Use scenarios analysis to develop viable business plans (includes lunch at noon).

1215–1345 hours | Sheikh Maktoum D, Dubai World Trade Centre
Wellbore Positioning Technical Section Topical Luncheon
Wellbore Surveying for Reservoir Value: Come hear how the latest survey management techniques can add value to your reservoir assets and drilling plans. How can you reduce uncertainty, and where does it make sense to apply techniques such as Multi-Station Analysis, BHA Sag Corrections, and In Field Referencing? How will remote operations impact your well position? Industry experts will show local field examples, and answer your questions.

Wellbore Positioning Technical Section Topical Luncheon
Wellbore Surveying for Reservoir Value: Come hear how the latest survey management techniques can add value to your reservoir assets and drilling plans. How can you reduce uncertainty, and where does it make sense to apply techniques such as Multi-Station Analysis, BHA Sag Corrections, and In Field Referencing? How will remote operations impact your well position? Industry experts will show local field examples, and answer your questions.

Updates after 30 May are not reflected. For the latest updates, visit www.spe.org/go/atce2016

Special events are subject to change. For more details on specific events, visit www.spe.org/go/atce2016.
1215–1345 hours | Sheikh Rashid D, Dubai World Trade Centre
Research and Development Technical Section Topical Luncheon
The SPE Research and Development Technical Section (RDTTS) will host a special topical luncheon to facilitate focused dialogue on adaptation of new technologies in this industry downturn. In a series of informative and thought provoking presentations, a panel of industry experts will discuss trends for cost reduction and improving return on investment through emerging technologies and techniques for oil and gas resources. A panel question and answer session will follow the presentations.

1230–1400 hours | Bubble Lounge, Dubai World Trade Centre
Student Awards Luncheon
Join SPE to honour our most outstanding students and student chapters.

1430–1800 hours | Sheikh Maktoum A, Dubai World Trade Centre
Student Careers Pathway Fair
Meet with specialists from multiple disciplines within the oil and gas industry to gain insight into what different career paths are out there, how they fit into the industry and what it really like to work in a particular discipline. The event will provide an opportunity for both students and graduates to speak with experienced and young professionals working in different career paths in an informal environment.

1800–2000 hours | Al Multaqua Ballroom, Dubai World Trade Centre
Young Members Reception
Come and meet with young members from all over the world at this reception. This event will include an interactive icebreaker session and an official announcement of the candidates selected for the 2016 Spotlight on Young Professionals Recognition Programme. This newly launched recognition programme acknowledges the voluntary contributions and technical achievements of young professionals to their local SPE region or section, as well as to the oil and gas industry in general.

1830–2200 hours | Dubai Ballroom, JW Marriott Marquis
Annual Reception and Awards Banquet
Join us to celebrate key successes of SPE members and the oil and gas industry. The Annual Awards Banquet recognises significant contributions of our members to the industry, to SPE, and to the greater community. Prior to the banquet, attendees are invited to gather for a reception from 1830 hours at the Dubai Ballroom Foyer.

WEDNESDAY, 28 SEPTEMBER
0800–1400 hours | Fujairah A–C, Dubai World Trade Centre
KEY Club
The KEY Club is an exclusive lounge for key SPE members.

0800–1600 hours | Bubble Lounge, Dubai World Trade Centre
Energy4me Students Workshop
The Energy4me student workshop targets high school students (grade 10 to grade 12). The programme will include expert speakers, hands-on activities, and an exhibition/technology tour. Students can use these opportunities to learn about emerging technologies in the petroleum industry, career opportunities, or how energy makes an impact on our everyday lives.

0900–1200 hours | Onyx, Novotel, Dubai World Trade Centre
Student Communication Workshop II
This workshop will give students the opportunity to work in a small group to hone their networking abilities, refine their communication skills, and build up a toolkit of essential knowledge for their careers ahead. Students will work in small groups to gain valuable insight into working in a truly global industry, from cultural implications to practical advice for the workplace.

1200–1335 hours | Sheikh Maktoum C and D, Dubai World Trade Centre
President’s Luncheon and Annual Meeting of Members
ATCE wraps up with the Annual Meeting of Members at the President’s Luncheon. A favourite tradition, the luncheon showcases 2016 SPE President Nathan Meehan’s presentation on new achievements at SPE and upcoming initiatives. SPE’s notable volunteers and outstanding SPE Sections will also be recognised. Attendees will have the opportunity to meet SPE Board members and 2017 SPE President Janeen Judah, who will receive the presidential gavel and officially begin her term.

Two Brilliant Ways To Highlight Your Organisation at ATCE
Is your company a developer of groundbreaking new technology, or a leader in E&P innovation?

1. Present Your Innovations
   - Be one of 15 companies selected to present solutions in the ATCE exhibit hall and deliver LIVE “Tech Talks” to E&P decision makers in the ENGenious Theatre.
   - Get exposure in the SPE Today show daily, marketing materials, emails, and press releases.

2. Sponsor ENGenious
   - Target E&P executives, engineers, decision makers, and buyers at ATCE.
   - Get exposure in the SPE Today show daily, marketing materials, on-site programme and signage, emails, and JPT ads, which will drive traffic to the ENGenious Theatre.

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ENGenious is brought to you by the Society of Petroleum Engineers.

Apply to present or sponsor by 15 August 2016 at www.spe.org/go/ENGenious

Society of Petroleum Engineers Annual Technical Conference and Exhibition
26–28 September 2016
Dubai World Trade Centre
Dubai, UAE

JPT

Updates after 30 May are not reflected. For the latest updates, visit www.spe.org/go/atce2016
Our training programmes help professionals improve their expertise and stay up-to-date on the best practices in a dynamic industry. SPE works with recognised experts in their fields to develop training courses covering a wide range of industry topics. Participants receive 0.8 Continuing Education Units (CEUs) for one-day courses and 1.6 CEUs for two-day courses.

All training courses will be held at The Fairmont Hotel. Registration fees for training courses are in addition to conference fees and on a per-course basis. Some training courses require special materials and/or equipment.

### TWO-DAY TRAINING COURSES

**SATURDAY–SUNDAY, 24–25 SEPTEMBER 2016**

<table>
<thead>
<tr>
<th>Course</th>
<th>Presenter</th>
<th>Institution/Company</th>
</tr>
</thead>
<tbody>
<tr>
<td>Asset Management—Tools, Process, and Practice</td>
<td>Alok Jain</td>
<td>Asset Management Solutions</td>
</tr>
<tr>
<td>Hydraulic Fracturing—Design and Treatment</td>
<td>Michael B. Smith</td>
<td>NSI Technologies</td>
</tr>
<tr>
<td>Modern Production Data Analysis for Unconventional Reservoirs</td>
<td>David Anderson</td>
<td>Anderson Thompson Reservoir Strategies</td>
</tr>
<tr>
<td>Production Forecast and Reserves Estimates in Unconventional Resources</td>
<td>W. John Lee</td>
<td>Texas A&amp;M University</td>
</tr>
</tbody>
</table>

### ONE-DAY TRAINING COURSES

**SUNDAY, 25 SEPTEMBER 2016**

<table>
<thead>
<tr>
<th>Course</th>
<th>Presenter</th>
<th>Institution/Company</th>
</tr>
</thead>
<tbody>
<tr>
<td>Reservoir Aspects of Horizontal and Multilateral Wells</td>
<td>Sada Joshi</td>
<td>Joshi Technologies International</td>
</tr>
</tbody>
</table>

**THURSDAY, 29 SEPTEMBER 2016**

<table>
<thead>
<tr>
<th>Course</th>
<th>Presenter</th>
<th>Institution/Company</th>
</tr>
</thead>
<tbody>
<tr>
<td>Coiled Tubing and its Applications</td>
<td>Ed Smalley</td>
<td>NOV CTES</td>
</tr>
<tr>
<td>Flow Assurance—Managing Flow Dynamics and Production Chemistry</td>
<td>Abul Jamaluddin</td>
<td>Reservoir Fluid Solutions Advisory</td>
</tr>
<tr>
<td>Horizontal Well Completions</td>
<td>Sudiptya Banerjee</td>
<td>Texas A&amp;M University</td>
</tr>
<tr>
<td>Reservoir Heterogeneity and Characterisation</td>
<td>Jerry L. Jensen</td>
<td>University of Calgary</td>
</tr>
<tr>
<td>Unconventional Reservoir Production (Rate Transient) Analysis</td>
<td>Christopher R. Clarkson</td>
<td>University of Calgary</td>
</tr>
</tbody>
</table>
Scholarships and Support for Universities

More than USD 14 MILLION in the last 5 years alone.

DID YOU KNOW?

USD 14 MILLION Scholarships and Support for Universities

More than in the last 5 years alone.

1,300,000 Miles

30 Distinguished Lecturers travel more than 1,300,000 miles each year.

21 Distinguished Lecturers have served as SPE Presidents.

181,000

Over 181,000 videos, slides, book chapters, standards, journal papers and conference manuscripts available for download.

120,000

Over 120,000 print and digital copies of JPT circulated each month.

SPE Membership

168,000+

Members

144

Countries

207

Sections

368

Student Chapters

7% INCREASE EACH YEAR

MEMBERSHIP BY REGION (Professionals and Students)

North America 23%

South America and Caribbean 14%

Africa 11%

Europe 10%

Middle East and South Asia 16%

Asia Pacific 18%

Russia and Caspian 8%

SPE Events and Webinars

Up to 4,700 technical papers presented around the world each year. Over 51,000 people joined 138 free SPE Webinars in 2015.
| Exhibit space is limited, but good locations are still available! Increase your brand visibility through sponsorship and advertising opportunities. Visit www.spe.org/go/atce2016 for more information. |
DISCOVER ALL THAT DUBAI HAS TO OFFER!

From a desert outpost to a leading leisure and business destination, Dubai has rapidly transformed itself into one of the most exciting tourism destinations in the world. It’s a city where visitors flock for bargains, enjoy year-round sunshine and experience the unbelievable. It’s also famous for the first ski slope in the Middle East, the tallest building in the world and the best hospitality anyone could dream of. Dubai and its unique blend of cultures that make up the world’s most cosmopolitan city, lures more than 200 nationalities into a wealth of knowledge, creativity and innovation.

Home to the world’s busiest airport, Dubai is an ever evolving global hub for business events that thrives on global connectivity, first-class infrastructure and a range of headline grabbing attractions. After all, where else can you wrap up your meetings and spend time at the beach, snow skiing or testing your limits in a 4x4 while dune bashing in the desert?

Discover all that’s possible in Dubai at visitdubai.com
FLIGHTS, HOTELS AND TOURS

DISCOUNTED FLIGHTS & HOTELS FOR ALL ATCE ATTENDEES.
TAKE ADVANTAGE OF THESE SPECIAL OFFERS TODAY!

OFFICIAL AIRLINE

We’re pleased to inform you that Emirates Airline has proudly been selected as the partner airline for ATCE 2016. Emirates has excellent connections to all of the six continents via Dubai with more than 140 current destinations worldwide—and an expanding route network all the time.

OFFICIAL ACCOMMODATION PARTNER

TripAxis are ATCE’s official Travel Partner and have secured preferential rates across a variety of hotels in Dubai. TripAxis can also arrange bespoke transportation, restaurant bookings or meeting space. Please contact them directly, should you require their assistance, quoting ATCE 2016. It is important to note that the hotel preferential rates can only be gained when booking via TripAxis.

DISCOUNTED DIRECT RETURN FARES STARTING FROM

<table>
<thead>
<tr>
<th>Destination</th>
<th>Fare</th>
</tr>
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<tbody>
<tr>
<td>Houston</td>
<td>USD 885</td>
</tr>
<tr>
<td>London</td>
<td>GBP 349</td>
</tr>
<tr>
<td>Kuala Lumpur</td>
<td>MYR 3,936</td>
</tr>
</tbody>
</table>

Promotion Code: EVE6SPE
Travel Validity: 18 September–2 October 2016
www.emirates.com
* Fares as of 31 May 2016

DUBAI TOURS

Marina Dhow Cruise with Transfer and 3 Course Dinner
USD 82 per person

Creek Dhow Cruise with Transfer and 3 Course Dinner
USD 68 per person

Desert Safari (1/2 day, PM)
USD 49 per person

Dubai City Tour (1/2 day, AM)
USD 41 per person

Contact events@tripaxis.com or +971.4.431.2299 to book your tour.

Update after 30 May are not reflected. For the latest updates, visit www.spe.org/go/atce2016
REGISTRATION

SPE Members Receive a Registration Discount!
Not an SPE member? Join today at www.spe.org/go/joinspe.
Already a member? Renew today at www.spe.org/renew.

3 Easy Ways To Register:

1. **ONLINE**  [www.spe.org/go/atce2016](http://www.spe.org/go/atce2016)
   Online registration will remain open until the final day of the conference.

2. **FAX**  +971.4.457.3164
   
3. **EMAIL**  registrationdubai@spe.org
   and reference the name of the registrant and 16ATCE in the subject line.

Wire transfers must be made prior to 26 August 2016.
Please instruct your bank to include your name, and reference 16ATCE.

<table>
<thead>
<tr>
<th><strong>Full Registration</strong></th>
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<tbody>
<tr>
<td><strong>SPE Member</strong></td>
<td>USD 700</td>
</tr>
<tr>
<td><strong>SPE Members 65 and Older</strong></td>
<td>USD 300</td>
</tr>
<tr>
<td><strong>Nonmember</strong></td>
<td>USD 900</td>
</tr>
<tr>
<td><strong>Committee/Session Chair/Author/Presenter</strong></td>
<td>USD 500</td>
</tr>
<tr>
<td><strong>Spouse</strong></td>
<td>USD 70</td>
</tr>
<tr>
<td><strong>University Student</strong></td>
<td>USD 70</td>
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<thead>
<tr>
<th><strong>1-Day Registration</strong></th>
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</thead>
<tbody>
<tr>
<td><strong>Visitors (Exhibition Only)</strong>*</td>
<td>COMPLIMENTARY</td>
</tr>
<tr>
<td><strong>Technical Sessions and Exhibition—SPE Member</strong></td>
<td>USD 350</td>
</tr>
<tr>
<td><strong>Technical Sessions and Exhibition—Nonmember</strong></td>
<td>USD 450</td>
</tr>
</tbody>
</table>

* Full-conference registration includes admittance to the technical sessions, exhibition, luncheons, coffee breaks, welcome and awards receptions, conference bag, and one copy of the conference proceedings. For all other types of registration, the proceedings may be purchased separately (USD 200 for members, USD 300 for nonmembers).

** University students must show a valid student ID to register. If you register online, you will have to show an ID when you pick up your badge on-site. Student registrations include one copy of the conference proceedings.

*** Additional luncheon tickets may be purchased separately for USD 70.

<table>
<thead>
<tr>
<th><strong>1-Day Training Courses</strong></th>
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<tbody>
<tr>
<td><strong>SPE Member</strong></td>
<td>USD 750</td>
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<tr>
<td><strong>Nonmember</strong></td>
<td>USD 900</td>
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<table>
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<tr>
<th><strong>2-Day Training Courses</strong></th>
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<tbody>
<tr>
<td><strong>SPE Member</strong></td>
<td>USD 1,400</td>
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<tr>
<td><strong>Nonmember</strong></td>
<td>USD 1,600</td>
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<table>
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<tr>
<th><strong>Ticketed Events</strong></th>
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<tbody>
<tr>
<td><strong>Drilling Systems Automation Technical Section (DSATS) Symposium (Sunday)</strong></td>
<td>USD 35</td>
</tr>
<tr>
<td><strong>25 Year Club/Distinguished Lecturer Breakfast (Monday)</strong></td>
<td>USD 35</td>
</tr>
<tr>
<td><strong>How to Write a Good Technical Paper (Monday)</strong></td>
<td>INCLUDED</td>
</tr>
<tr>
<td><strong>PF&amp;C Technical Section Dinner (Monday)</strong></td>
<td>USD 50</td>
</tr>
<tr>
<td><strong>Multi Technical Section Dinner: Digital Energy, Petroleum Data-Driven Analytics and R&amp;D Technical Sections (Monday)</strong></td>
<td>USD 45</td>
</tr>
<tr>
<td><strong>Student Awards Luncheon (Tuesday)</strong></td>
<td>USD 5</td>
</tr>
<tr>
<td><strong>Soft Skills Workshop I: Leadership (Tuesday)</strong></td>
<td>USD 65</td>
</tr>
<tr>
<td><strong>Soft Skills Workshop II: Strategic Tools for Career Success (Tuesday)</strong></td>
<td>USD 65</td>
</tr>
<tr>
<td><strong>Soft Skills Workshop III: Marketable Team Skills (Tuesday)</strong></td>
<td>USD 65</td>
</tr>
<tr>
<td><strong>Soft Skills Workshop IV: Strategic Planning (Tuesday)</strong></td>
<td>USD 65</td>
</tr>
<tr>
<td><strong>Annual Reception and Awards Banquet (Tuesday)</strong></td>
<td>USD 125</td>
</tr>
<tr>
<td><strong>R&amp;D Technical Section Topical Luncheon (Tuesday)</strong></td>
<td>USD 65</td>
</tr>
<tr>
<td><strong>Wellbore Positioning Technical Section Luncheon (Tuesday)</strong></td>
<td>USD 65</td>
</tr>
<tr>
<td><strong>Young Members Reception (Tuesday)</strong></td>
<td>INCLUDED</td>
</tr>
<tr>
<td><strong>President’s Luncheon (Wednesday)</strong></td>
<td>USD 60</td>
</tr>
</tbody>
</table>
GENERAL INFORMATION

Venues
Dubai World Trade Centre | JW Marriott Marquis | Fairmont Dubai

Visas
Visit www.spe.org/go/atce2016 to find out if your country of nationality will receive a visa on arrival to the United Arab Emirates. If you need to arrange a visa in advance, please contact TripAxis: Saoussane Hannaoui at events@tripaxis.com or call +971.4.431.2299.

Shuttle Service and Local Transportation
• An all-day shuttle bus service will be provided from the headquarters hotel, JW Marriott Marquis (8–10 minutes drive to Dubai World Trade Centre).
• Taxis in Dubai are efficient, reliable and cheap. Any hotel you book will happily arrange a taxi for you, with a travel time of no more than 30 minutes to reach from one end to the other of Dubai (outside peak commuter time).
• The Metro in Dubai is also very efficient and there is an on-site station at Dubai World Trade Centre.
• For bespoke transportation services, please contact TripAxis for assistance.

Registration Cancellation Policy
Cancellations must be submitted in writing to receive a refund. Cancellations received prior to 14 September 2016 will receive a refund less USD 100. Cancellations received after 14 September 2016 will not be refunded. Please send requests by email to registrationdubai@spe.org, or fax +971.4.457.3164.

Copyright Information
All SPE sessions are protected by international copyright laws. Photography and audio-visual recording of any kind are strictly prohibited in the sessions and throughout the exhibition areas.

Maximizing Well Performance
It's All in the Resin.
Hexion is a global leader in thermoset resin technology. Our innovative resin technology platforms allow our range of propellants to optimize well performance by:
• Maximizing oil production
• Maximizing propellant consolidation at ultra-low temperatures to reduce propellant flowback
• Maximizing resiliency of the propellant pack to handle cyclic stress
• Maximizing operational and cost efficiencies by reducing formation water production

Visit Us in Booth 5156.

hexion.com/oilfield

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advancing possibilities

At Saudi Aramco, we do so much more than provide energy to the world. We grow new businesses, fuel the economy, and drive innovation. By connecting energy, people, and ideas, we expand the possibilities sparked by our business to spur diversification and drive sustainable economic growth. Everything we do reflects our core belief that energy is opportunity.