Vision to Prosperity: A New Energy Era Emerges

Conference Preview

13–15 January 2020
Dhahran EXPO
Kingdom of Saudi Arabia
2020.iptcnet.org

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AAPG  EAGE  SEG  SPE

EVENT MANAGEMENT AND ORGANISATION IN KSA
LETTER FROM IPTC 2020 EXECUTIVE COMMITTEE CHAIR

Dear Colleagues,

The 12th edition of the International Petroleum Technology Conference (IPTC) will be held 13–15 January 2020, at the Dhahran EXPO in the Kingdom of Saudi Arabia, with Saudi Aramco serving as the Exclusive Host Organisation.

Themed “Vision to Prosperity: A New Energy Era Emerges”, this will be the first international multi-disciplinary, inter-society oil and gas conference and exhibition to be held in Saudi Arabia. The Kingdom, with some of the world’s largest oil reserves, occupies a unique position at the crossroads of Europe, Africa and Asia, making it a fitting location for one of the largest and most prestigious international conferences for petroleum engineering.

IPTC is a collaborative effort among the American Association of Petroleum Geologists (AAPG), the European Association of Geoscientists and Engineers (EAGE), the Society of Exploration Geophysicists (SEG), and the Society of Petroleum Engineers (SPE) and is widely regarded by industry professionals as a unique opportunity to promote technology dissemination and knowledge sharing on a global scale in a truly integrated manner.

On behalf of the IPTC Board of Directors, the Executive Committee, the Conference Programme Committee and the Host Organisation, it is our pleasure to invite you to participate, and benefit from, the many technical papers, field trips and workshops at this prestigious event.

With over 6,000 participants from around the world expected to attend, IPTC provides organisations with a world-class platform to showcase new and emerging technologies, and will enhance your company’s profile to a diverse group of industry professionals and decision-makers.

In addition to the many experts in attendance, IPTC provides many learning opportunities for students and proudly encourages the participation and development of our talented young professionals.

We look forward to your support in making IPTC 2020 a banner event and to welcoming everyone to the Kingdom of Saudi Arabia in January 2020. I look forward to seeing everyone at the Grand Opening Ceremony on 13 January 2020.

Mohammed Y. Al-Qahtani
IPTC 2020 Executive Committee Chair
Senior Vice President, Upstream
Saudi Aramco
IPTC 2020 COMMITTEES CHAIRS AND CO-CHAIRS

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Mohammed Y. Al-Qahtani, Saudi Aramco

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Ali M. Al-Shahri, Saudi Aramco

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Khalid A. Zainalabedin, Saudi Aramco

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Suha Kayum, Saudi Aramco

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Fahad Al Dossary, Saudi Aramco

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Ivo Nuic, Baker Hughes
Khalid Zamil, Saudi Aramco

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Najwa Al Azaimi, Saudi Aramco

Emerging Leaders Forum Committee Co-Chairs
Najwa Al Azaimi, Saudi Aramco
Ali Al Sayegh, ADNOC

Diversity and Inclusion Workshop Co-Chairs
Hind K. Alzahid, Ministry of Civil Service
Kingdom of Saudi Arabia
Reem Al-Ghanim, Saudi Aramco
Ricardo Santos, Schlumberger

IPTC 2020 COMMITTEES CHAIRS AND CO-CHAIRS

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PRELIMINARY CONFERENCE PROGRAMME SCHEDULE

SUNDAY, 12 JANUARY 2020 (KEMPINSKI AL OTHMAN)

0800–1515 Diversity and Inclusion Workshop: Our Journey Towards Sustaining an Inclusive Culture

0800–1600 Seminar: Reservoir Compartmentalisation: 21st Century Concepts and Applications
Seminar: The Estimation, Classification, and Reporting of Reserves and Resources
Seminar: Geophysical Application to Petroleum Engineering
Seminar: New Applications of Machine Learning to Oil and Gas Exploration and Production

1500–1600 Diversity and Inclusion Debate Session: Generation X vs. Generation Y

MONDAY, 13 JANUARY 2020 (DHAHRAN EXPO)

0900–0930 Opening Session and IPTC “Excellence in Project Integration” Award Presentation (Hall 1)

1030–1130 Exhibition Opening Ceremony and VIP Tour of Exhibition

1100–1230 Ask the Expert Session 1
Session 1: Chemical and Low Salinity EOR
Session 2: Evaluation and Characterisation of Emerging Unconventional Plays
Session 3: Cementing Technologies and Applications
Session 4: Process Engineering and Enhancement
Session 5: Better, Faster and Safer Production
Session 6: Enhancements in Sour Gas Treatment
Session 7: Environmental Sustainability
Session 8: Operational Excellence
Session 9: Emerging Topics
Session 10: Reservoir Engineering and Simulation
Session 11: Advancement in Reservoir Testing

1130–1400 Delegate Luncheon (Plaza)

1400–1530CEO Plenary Session: Vision to Prosperity: A New Energy Era Emerges (Hall 1)

1530–1600 Coffee Break /ePoster Sessions

1600–1730 Panel Session 1: The Role of IR 4.0 in Revolutionising the Oil and Gas Industry
Project Case Study Session 1
Session 12: Novel Technologies in Gas Processing
Session 13: New Insights in Hydrocarbon Exploration
Session 14: Advancement in Well Completion Technology
Session 15: Managed Pressure Drilling: New Frontiers Implementation, Analysis and Positive Results
Session 16: Unlock Reservoirs with the Power of Fluid Energy
Session 17: Prolonging Asset Integrity and Life Cycle
Session 18: Geoscience Aspects of Unconventional Reservoir Characterisation
Session 19: Developing An Agile Workforce
Session 20: Advances in Geoscience Concepts and Techniques
Session 21: Project Management
Session 22: Integrated Reservoir: Development and Management

1830 IPTC Cultural Reception (Kempinski Al Othman)

TUESDAY, 14 JANUARY 2020 (DHAHRAN EXPO)

0900–1030 Executive Plenary Session: Shaping the Upstream Ecosystem for a New Energy Era (Hall 1)

1030–1100 Coffee Break /ePoster Sessions

1100–1230 Panel Session 2: Emerging Technologies and Challenges from Exploration to Development
IP&T Excellence in Project Integrated Award Showcase Session
Session 23: Petroleum Geosciences: Advanced Case Studies
Session 24: Analytical Techniques for Reservoir Characterisation
Session 25: Drilling Fluids Technology and Applications
Session 26: Geomechanics and Fracturing
Session 27: Scale and Corrosion Challenges and Solutions
Session 28: Keeping an Eye on Our Wells Monitoring
Session 29: Case Studies in Shale and Tight Reservoirs
Session 30: Corporate Social Responsibility
Session 31: AI and Big Data in Geoscience
Session 32: Reservoir Engineering and Management
Session 33: Concept Engineering

1230–1400 Topical Luncheon: The Role of Oil and Gas Industry in Sustainable Development and Human Prosperity (Emerald Hall 1)

1230–1400 Knowledge Sharing ePoster Sessions
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**WEDNESDAY, 15 JANUARY 2020 (DHAHRAN EXPO)**

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**KEY**

- **Panel Sessions**
- **E&P Geosciences**
- **Reservoir Engineering**
- **Integrated Reservoir Engineering and Geoscience**
- **Drilling and Completions**
- **Facilities**
- **Midstream Gas**
- **IOR / EOR**
- **Development and Production**
- **Unconventional**
- **Overarching**
- **IR 4.0**
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OPENING SESSION

MONDAY, 13 JANUARY I 0900–0930
HALL 1

Opening Remarks

Mohammed Y. Al-Qahtani
IPTC 2020 Executive Committee Chair
Senior Vice President
Upstream
Saudi Aramco

Mahmoud M. Abdulbaqi
Chairman
IPTC Board of Directors

The Opening Session will be followed by the IPTC “Excellence in Project Integration” Award Presentation. Industry leaders, senior management, and professionals from the oil and gas related companies, and engineering and technical professionals will be in attendance.

CEO PLENARY SESSION:
Vision To Prosperity: A New Energy Era Emerges

MONDAY, 13 JANUARY I 1300–1400
HALL 1

Moderator
TBC

Panelists

Amin Nasser
President and CEO
Saudi Aramco

Darren Woods
Chairman and CEO
Exxon Mobil Corporation

Patrick Pouyanné
Chairman and CEO
Total

Wan Zulkiflee bin Wan Ariffin
President and Group CEO
PETRONAS

Peter J. Coleman
CEO and Managing Director
Woodside Energy Ltd.
EXECUTIVE PLENARY SESSION:
Shaping the Upstream Ecosystem for a New Energy Era

TUESDAY, 14 JANUARY | 0900–1030

Moderator

Eithne Treanor
Managing Director
Etreanor Media

Panelists

Mohammed Y. Al-Qahtani
Senior Vice President
Upstream
Saudi Aramco

Abdulmunim Saif Al Kindy
Executive Director
Upstream Directorate
ADNOC

Lisa Davis
Member of the Managing Board of Siemens AG and CEO Gas and Power
Siemens

Jeff Miller
Chairman, President and CEO
Halliburton

Lorenzo Simonelli
Chairman and CEO
Baker Hughes

Michael Train
President, Emerson Chairman
Emerson Automation Solutions

ENERGY THINK TANK PLENARY SESSION:
Navigating the Global Dynamic Energy Scene

MONDAY, 13 JANUARY | 1400–1530

Moderator

Daniel Yergin
Vice Chairman
IHS Markit

Panelists

Mark G. Papa
Chairman and CEO
Centennial Resources Development; Chairman
Schlumberger

Adam Sieminski
President
King Abdullah Petroleum Studies and Research Center (KAPSARC)

Robert C. Armstrong
Director, MIT Energy Initiative
Massachusetts Institute of Technology

Bassam Fattouh
Director, Oxford Institute for Energy Studies
University of London

Scott W. Tinker
Director, Bureau of Economic Geology
The University of Texas at Austin

Neal Anderson
President and CEO
Wood Mackenzie

Jason Bordoff
Professor of Professional Practice in International and Public Affairs
Founding Director, Center on Global Energy Policy
Columbia University
### PANEL SESSION 1:
The Role of IR 4.0 in Revolutionising the Oil and Gas Industry

**MONDAY, 13 JANUARY | 1600–1730**  
**HALL 1**

**Moderator**  
Tony Pink  
Vice President Technology  
NOV Wellbore Technologies

**Panelists**

- Nabil Al Nuaim  
  Chief Digital Officer  
  Saudi Aramco
- Derek Mathieson  
  Chief Marketing and Technology Officer  
  Baker Hughes
- Ronald Raffensperger  
  Chief Technology Officer  
  Huawei Data Center Solutions
- Ed Abbo  
  President and Chief Technology Officer  
  C3.ai

### PANEL SESSION 2:
Emerging Technologies and Challenges from Exploration to Development

**TUESDAY, 14 JANUARY | 1100–1230**  
**HALL 1**

**Moderator**  
Renaud Brimont  
Head of EMEARC Consulting  
Wood Mackenzie

**Panelists**

- Nasir K. Al-Naimi  
  Vice President Petroleum Engineering and Development  
  Saudi Aramco
- Sophie Zurquiyah  
  CEO  
  CGG
- Bundit Pattanasak  
  Senior Vice President Technology and Knowledge Management Division  
  PTT Exploration and Production Public Company Limited
- Demosthenis Pafitis  
  Senior Vice President Technology Platforms  
  Schlumberger
- Giuseppe Tannoia  
  Executive Vice President Research and Technological Innovation  
  Eni
PANEL SESSION 3:
The Future of Gas: From Wellhead to Market

TUESDAY, 14 JANUARY | 1400–1530

Moderator
Kenneth B. Medlock
Senior Director, Center for Energy Studies at the Baker Institute for Public Policy
Rice University

Panelists
Moutaz Al Riyami
Gas Director
Petroleum Development Oman

Nabeel I. Al-Afaleg
General Manager, International Gas
Saudi Aramco

Emanuele Calviello
Vice President Business Development and Equity Projects
Eni

Hazli Sham Kassim
President
Malaysia Gas Association

Tom Earl
Chief Commercial Officer
Venture Global LNG

PANEL SESSION 4:
Talent Development and Workforce Diversity

TUESDAY, 14 JANUARY | 1600–1730

Moderator
Reem Al-Ghanim
Head of HR and Support Services, Chemicals
Saudi Aramco

Panelists
Aseel Humoodi
Senior Vice President Human Capital and Administration
Borouge

Mette Hersby
Vice President HR IG Talent and Development
Shell

Michael Deal
Exploration and New Ventures Vice President Asia Pacific
ExxonMobil Upstream Business Development Company

Farehana Hanapiah
Head Human Capital Expertise
PETRONAS

Ellen Chin
Senior Vice President and Chief Human Resources Officer
Weatherford

Richard de Moucheron
Global HR Director
Schlumberger
PANEL SESSION 5:  
The Unconventional Business: Recycling the Know How

WEDNESDAY, 15 JANUARY | 0900–1030

Moderator

Christophe Amadei
Managing Director
Total E&P UAE
Unconventional Gas
Total

Panelists

Richard Gonzalez
Senior Vice President, Completion and Production Division
Halliburton

Thomas A. Blasingame
Professor, Department of Petroleum Engineering
Texas A&M University

Khalid Al-Abdulqader
Executive Director
Unconventional Resources
Saudi Aramco

Robert E. Brackett
Senior Vice President and Senior Research Analyst
North American E&P
Bernstein Research

Sherif Foda
Chairman and CEO
NESR

TOPICAL LUNCHEON:  
The Role of Oil and Gas Industry in Sustainable Development and Human Prosperity

TUESDAY, 14 JANUARY | 1230–1400

Keynote Speaker

Sami Alnuaim
Saudi Aramco
2019 SPE President
IPTC SOCIETY PRESIDENTS PANEL SESSION

WEDNESDAY, 15 JANUARY | 1100–1230 | HALL 1

Moderator

Michael Gunningham
Chief Production Technologist
SGS Subsurface Consultancy
IPTC Board of Directors Member

Panelists

Shauna Noonan
Director of Artificial Lift Engineering
Occidental Petroleum
2020 SPE President

J. Michael Party
CEO/President
Beryl Oil and Gas
2019–2020 AAPG President

Everhard Muijzert
Scientific Advisor
Schlumberger
2020–2021 EAGE President

Richard Miller
Senior Scientist and Courtesy Associate Professor, Kansas Geological Survey, Kansas University
2019–2020 SEG President

‘ASK THE EXPERT’ SESSIONS

SESSION 1
Monday, 13 January
Emerald Hall 2

Session Chair:
Najm Qahtani
Saudi Aramco

1100–1145
Oil Recovery and Simulation
S.M. Farouq Ali, Distinguished Professor of Petroleum Engineering
University of Houston

1145–1230
From Paper to Cloud - The Technical Journey of Geophysical Interpretation
Francois Bouchet, Technical Manager
Schlumberger

SESSION 2
Tuesday, 14 January
Emerald Hall 2

Session Chair
Mohammed Badri
Schlumberger

1400–1445
Innovative Seismic Technologies for Higher Reservoir Resolution
Saleh Al-Dossary, Exploration System Consultant
Saudi Aramco

1445–1530
Unraveling the Shallow is Key to Unlocking the Deep
Richard Miller, Senior Scientist and Courtesy Associate Professor Kansas Geological Survey
Kansas University

SESSION 3
Wednesday, 15 January
Emerald Hall 2

Session Chair
Sean A Guidry
ExxonMobil

0900–0945
Numerical Reservoir and Basin Simulation
Ali H. Dogru, Saudi Aramco Fellow
Saudi Aramco

0945–1030
New Applications of Machine Learning to Oil and Gas Exploration and Production
Bernard Montaron, CEO, Fraimwork SAS and CTO
Cenozai Sdn Bhd

#IPTC2020
DIVERSITY AND INCLUSION WORKSHOP:
Our Journey to a Sustainable Inclusive Culture

SUNDAY, 12 JANUARY | 0800–1600
Kempinski Al Othman Hotel

Co-chairs

Reem Al-Ghanim
Saudi Aramco

Ricardo Santos
Schlumberger

Diversity can be the strengths of a society and cultural barriers the weakness. Diversity without taking care of inclusion will be only an effort. Organisations that are able to focus on both diversity and inclusion practices, will experience the best outcomes and greatest alignment with business objectives.

Although good progress has been observed recently, a stark gap persists. Part of the problem is that “diversity” and “inclusion” are so often lumped together assuming that they’re the same thing. But that’s not the case. At the workplace, diversity equals representation. However, without inclusion, the crucial connections that attract diverse talent, encourage their participation, foster innovation, and lead to business growth, will not happen.

To build a culture of belonging, a strong inclusion programme is fundamental, for a healthier company, unleashing the very real value of a diverse workforce, and achieving diversity of thought at all levels.

This workshop will create the bases for a reflection on best practices to increase diversity, promote inclusion and to instigate the concept of belonging.

Workshop Sessions

Session 1: The Business Imperative for Inclusion
Session 2: Creating and Sustaining an Inclusive Culture
Panel 3: Chief Diversity and Inclusion Officer for the Day
Session 4: Inclusive Leadership Challenges and Opportunities

Workshop Coffee Breaks Sponsor

DIVERSITY AND INCLUSION PANEL SESSIONS:

Hind K. Alzahid
Diversity and Inclusion Panel Sessions Chair
DIVERSITY AND INCLUSION DEBATE SESSION:
Generation X vs. Generation Y

SUNDAY, 12 JANUARY  I  1500–1600  Hall 1

Judges

Noor Shabib
Vice President
Strategic Planning & Business Development
Saudi Industrial Development Fund

Ghassan Mirdad
President GCC
Schlumberger

Debaters

Sammy Showail
Strategist
Saudi Aramco and Adjunct Professor
King Fahd University of Petroleum & Minerals

Ayshah A. Omair
Young Leaders Advisory
Board Member
Saudi Aramco

Closing Remarks

Mohammed Abduldayem
President and CEO
Earth Reservoir for Oil and Gas Ltd.

Najwa Azaimi
IPTC 2020 Students Programme Chairperson

DIVERSITY AND INCLUSION PANEL SESSION 1:
A Cross-Cultural Dialogue Where East Meets West

WEDNESDAY, 15 JANUARY  I  1100–1230  Hall 1

Moderator

Rusha Al-Rawaf
Corporate Citizenship Director
Saudi Aramco

Panelists

Mariam Al-Suwaidi
Vice President, Learning and Competency Development
ADNOC

Xihong Li
Chief Representative
Sinopec Middle East

Hawazen Nassief
Director Environmental Social and Governance
NESR

Maria Angela Capello
Executive Consultant
Kuwait Oil Company

#IPTC2020
DIVERSITY AND INCLUSION PANEL SESSION 2:
Inspirational Success against Odds

WEDNESDAY, 15 JANUARY | 1400–1530  
Hall 1

Moderator

TBC

Panelists

Rachna Korhonen  
Consul General  
US Consulate Dhahran

Hind Al-Zahid  
Undersecretary for Women’s Empowerment  
Saudi Civil Service Ministry

Ramona Graves  
Dean, Earth Resources and Environmental Programs  
Colorado School of Mines

Abdullah Jumaa  
Chairman of the Board  
Saudi Investment Bank

PROJECT CASE STUDY SESSIONS

SESSION 1  
Monday, 13 January  
Emerald Hall 2

Session Chairs:  
Waheed Arshad and Mohammed Islam  
Saudi Aramco

1600–1645  
CO₂ FoamFRAC Resuscitates a Challenging Satellite Field in Saudi Arabia  
Abdul Muqtadir Khan, Fracturing Design and Technical Engineer  
Schlumberger

1645–1730  
Upstream Professional Development Center: Programme Overview  
Thamer Al Olayet, IT Systems Analyst  
Saudi Aramco

SESSION 2  
Tuesday, 14 January  
Emerald Hall 2

Session Chair:  
Malik Humood  
Saudi Aramco

1600–1645  
MAX-LOCK™—High Compressive Strength, Phase-Transforming, Lost Circulation Material—The Severe Losses Solution  
Prahlad Yadav, R&D Manager, Drilling and Completion Fluids HQ Houston  
Baker Hughes

1645–1730  
Siemens Implementing AI Technology for an Onshore Oil Production Field  
Mirko Wutkewicz, Head of Digital Accelerator for Oil and Gas Solutions  
Siemens

TOP RATED PAPERS

IPTC 2020 features 100 technical sessions with over 700 presentations on geoscience, drilling and completions, reservoir, production and operations, engineering, projects and facilities, field development, over-arching industry issues, mid-stream gas and integrated geoscience and reservoir engineering. This year, the technical sessions will also include the 18 top rated papers from the Annual Meetings of the IPTC sponsoring societies—AAPG, EAGE, SEG, and SPE.
POPULAR FEATURES OF IPTC 2020

Monday, 13 January to Wednesday, 15 January
See Programme Schedule
For timings

ePOSTER SESSIONS
These presentations are a platform for enhanced discussion and interaction between authors and delegates, facilitating a greater exchange of ideas and networking opportunities.

Wednesday, 15 January
1730–1800
Hall 1

CLOSING SESSION
The Closing Session will briefly highlight the conference programme and the major topics that have been presented and discussed. Awards will be presented to the winners of the Student Projects. In addition, the Closing Session will include the introduction of the next IPTC in Kuala Lumpur, Malaysia.

IPTC “EXCELLENCE IN PROJECT INTEGRATION” AWARD

AWARD PRESENTATION AT THE OPENING SESSION

Monday, 13 January
0900–0930 | Hall 1

As the upstream oil and gas industry moves towards increasingly complex and capital intensive projects, we must challenge our conventional practices. It is critical that lessons are shared from successfully integrated projects that embody excellence. The IPTC committees and sponsoring societies believe in highlighting projects above USD 500 million that have demonstrated distinction throughout the entire exploration and production value chain.

The IPTC “Excellence in Project Integration” Award is given to a project that adds value to the industry and exemplifies strong teamwork, solid geoscience knowledge, reservoir and production engineering acumen, determined and watchful construction, and outstanding facilities engineering practices. Equally important, a successful project requires a pervasive culture of HSE, and a positive impact on the communities it affects.

IPTC Project Award

SHOWCASE SESSION

Tuesday, 14 January
1100–1230 | Emerald Hall 2

During this dedicated session, the three finalists will present their projects giving delegates the opportunity to learn and understand the methodologies and technology behind each project.

The selected finalist projects, in alphabetical order, are:
- Kaombo by Total
- Novy Port by Gazprom Neft
- PETRONAS FLNG SATU by PETRONAS

The award winning project will be announced and recognised at the Opening Session.
SEMINAR

Reservoir Compartmentalisation: 21st Century Concepts and Applications

Date: Sunday, 12 January  | Venue: Kempinski Al Othman Hotel

This seminar is designed to give industry professionals an appreciation of the predictive attributes of reservoir compartmentalisation, as well as knowledgeable insight into the scale and architecture of the wide range of petroleum reservoirs. This seminar draws from materials presented in field courses to outcrops and petroleum basins worldwide.

INSTRUCTOR

Dave Cantrell

Dave Cantrell has over 37 years of worldwide geologic industrial and academic experience. Dave began his industry career in 1982 with Exxon where he conducted numerous reservoir characterisation and geological modelling studies on reservoirs in the Middle East, and North and South America. After moving to Saudi Arabia in 1997, he conducted studies on several large carbonate fields there, and lead geologic R&D for Saudi Aramco from 2000–2008; he also served as a professor and associate director for the College of Petroleum Engineering and Geosciences at King Fahd Petroleum and Minerals (KFUPM) from 2015–2017. He is currently a principal at Cantrell GeoLogic, an adjunct professor at Stanford University, an AAPG certified petroleum geologist, and a fellow of the Geological Society of London; he has published over 50 articles in peer-reviewed journals and holds one patent. He holds an MSc from the University of Tennessee and a PhD in Geology from the University of Manchester.

SEMINAR

The Estimation, Classification, and Reporting of Reserves and Resources

Date: Sunday, 12 January  | Venue: Kempinski Al Othman Hotel

This seminar provides an overview of the classification, estimation, and reporting of reserves and resources. The focus of the seminar is on the SPE-PRMS (2018), but other systems such as SEC and COGEH are also included. The seminar will outline the key definitions of each of the main classes and categories of reserves and resources. The estimation methods which can be used, together with how and when each should be used is also covered. The seminar is illustrated by a series of case histories, examples, and exercises that show the practical application of the principles.

INSTRUCTOR

John W. Barker

John Barker is a Technical Director in Reservoir Engineering with Gaffney, Cline & Associates (GCA) in the UK, with 34 years’ experience in major oil companies (BP, Elf/Total) and consulting. As a member of the Society of Petroleum Evaluation Engineers (SPEE), he reviews and signs off for GCA on Competent Person’s Reports for Stock Exchange listings and reserves reports for financial and other purposes. He has extensive experience in reserve/resource estimation and auditing for fields of all sizes. He is a former Executive Editor of the SPE Reservoir Engineering journal and has authored 34 technical publications, mainly on reservoir simulation and enhanced oil recovery. He won the SPE Reservoir Description and Dynamics Regional Award for the North Sea Region in 2017. He holds an M.A. in Mathematics from Cambridge University and a Ph.D. in Applied Mathematics from the California Institute of Technology.
SEMINARS

SEMINAR

Geophysical Application to Petroleum Engineering

Date: Sunday, 12 January  | Venue: Kempinski Al Othman Hotel

The main objective of the course is to apply geophysics to petroleum engineering aspects of reservoir analysis by demonstrating how the models arrived.

INSTRUCTOR
Peter Bartok

Peter Bartok is an adjunct professor of geology at the University of Houston, instructor at Petroskills and a Petroleum E&P Consultant with research interests in unconventional shale resources, complex salt tectonics, rock-physics, and rock mechanics. His experience with BP included project management for Latin America, US Chief Offshore Geologist. He designed a course on multidisciplinary geoscience approach to unconventional resources and teaches courses in geophysics and structural styles. He has evaluated prospects in over 40 basins of the world (North America, Latin America, Europe, China, and West Africa) and defined the exploration techniques leading to major discoveries in Venezuela, Angola, and Guatemala. Bartok received a master’s degree in geology from the State University of New York at Buffalo. He has worked as a geophysicist for over 20 years and has published a textbook on unconventional resource assessment and more than 25 technical articles.

SEMINAR

New Applications of Machine Learning to Oil and Gas Exploration and Production

Date: Sunday, 12 January  | Venue: Kempinski Al Othman Hotel

The seminar will attempt to answer the question: How will A.I. change the way we work in the oil and gas industry in the coming years? Looking at what is underway in other industries and guessing what type of projects are under development in R&D departments in our industry will help answer that question. Oil and gas examples will be presented corresponding to each of the terms A.I., Machine Learning, and Deep Learning, allowing participants to reach a clear understanding on how they differ.

INSTRUCTOR
Bernard Montaron

Bernard Montaron is CEO of Fraimwork SAS, Paris, France, and CTO of Cenozai Sdn Bhd, Kuala Lumpur, Malaysia. Two start-ups, created in mid-2017, that are specialised in the application of Artificial Intelligence to various domains, and provide services to oil and gas companies for exploration and production. In 2015–2017, he was Chief Geoscientist of BeicipTecsol in Kuala Lumpur. Prior to this, Bernard Montaron worked 30 years for Schlumberger where he held a number of positions in R&D and Marketing. He has worked for the oil and gas industry in Europe, in the United States, in the Middle East, in China, and Malaysia. Bernard was General Manager of the Schlumberger Riboud Product Center in Paris, Clamart, France (2002–2003) and he was VP Marketing of Schlumberger Middle East and Schlumberger for the Europe-Africa-Russia regions (2000–2001). Bernard holds an MSc degree in Physics from ESPCI, Paris, France, and a PhD in Mathematics from University Pierre et Marie Curie, Paris, France. He also has a Machine Learning certificate from Andrew Ng’s course (Stanford University/Coursera). Bernard Montaron received the best oral presentation award at the APGCE 2017 conference for his paper on “Deep Learning Technology for Pattern Recognition in Seismic Data—a Practical Approach.”
International Young Professionals Programme—Emerging Leaders Forum

Date: Tuesday, 14 January  
Venue: Le Méridien Al Khobar, Dhahran EXPO

The definition of Young Professional (YP) is someone aged 35 or below or having less than 10 years’ experience in the industry. This one-day programme aims to bring together high performing YPs to hone their professional skills and to learn from key executives in the industry.

Additionally, this event will give YPs the chance to engage with their peers and discuss where the industry is headed and how new engineers will contribute to its future development. The programme will include professional skills development and round-table discussions with industry and entrepreneurship experts.

International University Students Programme—Education Week

Date: Saturday, 11 January to Wednesday, 15 January  
Venue: Le Méridien Al Khobar, Dhahran EXPO and field trip sites

This five-day programme benefits the best undergraduate students, from qualified institutions across the globe, who are studying in science, geoscience and engineering degree programmes.

It is anticipated that approximately 100 students who are in their third or final year of studies will be selected to attend the programme, with students’ attendance expenses covered through sponsorships from leading industry organisations. This programme gives students a clear insight into the industry that they are about to join, and offers the opportunity to extend their network, form new friendships, and work together on joint activities. Students will be given the opportunity to learn from professionals in the industry, go on field trips, and attend IPTC sessions and exhibition.

High School Programme—Science Teachers Workshop

Date: Monday, 13 January  
Venue: Le Méridien Al Khobar, Dhahran EXPO

The Science Teachers Workshop will highlight how energy works in our everyday lives, and promote information about career opportunities in petroleum engineering and the upstream professions. This programme values the role teachers and energy professionals play in educating young people about the importance of energy. The information provided will be factual and non-biased and can easily be used in classrooms around the globe.

There will be hands-on activities to provide educators with interactive, age-appropriate experiments, using basic household items that illustrate energy concepts. Teachers will also be provided with a technology tour at the IPTC Exhibition.
EXHIBITORS

Interact and network with industry experts from leading NOCs, IOCs, and oil and gas solution providers at the IPTC exhibition.

A
AAPG
ABDEL HADI ABDULLAH AL QAHTANI & SONS (AHQ SONS GROUP)
ABDUL KARIM H ALSINAN & PARTNER FOR TRADING COMPANY
ABDULLAH H AL- SHUWAYER SONS TRADING AND CONTRACTING COMPANY
ADES GROUP
AL KHORAYEF PETROLEUM
ALMANSOORI SPECIALIZED ENGINEERING
AL MASAOGO OIL & GAS
ALTHURAYA TELECOM
AL WASIL CHEM
AL WASAIL INDUSTRIAL
AMPHENOL MIDDLE EAST ENT. FZE
ANSELL MIDDLE EAST
ANTICOR TECHNOLOGIES (TIAL)
ARO DRILLING
ASH HOLDING
ASIA EDGE PTY LTD.
ASNA COMPANY FOR ADVANCED TECHNOLOGIES LTD.
ASOE HOSE MANUFACTURING INC.

B
BAKER HUGHES
BAPCO (NOGA)
BILFINGER (BABCOCK BOREIG SERVICES)
BIN QURAYA HOLDING CO.
BRYNE RENTAL

C
CHINA INNOVATION EXHIBITION CO. LTD.
CHINA PETROLEUM TECHNOLOGY AND DEVELOPMENT CORPORATION (CPTDC) - DOLPHIN INTERNATIONAL CORTEM SPA
CZ EXPLOSION-PROOF ELECTRIC APPLIANCES CO. LTD.

D
DAHRAN GEOSCIENCE SOCIETY (DGS)
DIVERSIFIED LINES PETROLEUM SERVICES (DLPS)
DOOSAN
DROPSAFE
DYNAMIC ENERGY FOR OIL AND GAS SERVICES
DYNAMIC TECHNOLOGIES (DTCC)

E
EAGE
ENPRO
EROG (EARTH RESERVOIR FOR OIL AND GAS LIMITED)
EVERY INDUSTRY LLC

F
FATHOM SOLUTIONS
FLEXSTEEL PIPELINE TECHNOLOGIES
FLOTEK INDUSTRIES
FUTURE PIPE COMPANY

G
GAS AND OIL TECHNOLOGIES (GOTECH)
GEOLOG
GEOPULSAR
GLOBAL SPORT GATE
GLOBAL SUHAIMI
GM INTERNATIONAL
GULF STEEL WORKS
GUMPRO DRILLING FLUIDS SAUDI ARABIA LLC

H
HAIMO TECHNOLOGIES SAUDI
HAJJAN TRADING AND INDUSTRIAL SERVICES CO. LTD.
HALLIBURTON
HUNTING ENERGY SAUDI ARABIA

I
I ENERGY (KHALIFA ABDULRAHMAN ALGOSAIBI INVESTMENT COMPANY CJSC)
ISOTOPES ARABIA INDUSTRIAL SERVICES CO. LTD

J
JOGMEC (JAPAN OIL GAS AND METALS NATIONAL CORP)

K
KANOQ GROUP
KASAB INTERNATIONAL ENERGY SERVICES
KEYMAG CONTROLS
KING ABDULLAH UNIVERSITY OF SCIENCE AND TECH (KAUST)
KING FAHAD UNIVERSITY OF PETROLEUM (KFUPM)
KING PETROBLEND - IRONCLAD PERFORMANCE WEAR - PETROBLEND OILFIELD SUPPLIES & SERVICES
KUWAIT OIL COMPANY (KOC)

L
LINDE
LOKRING MIDDLE EAST

M
MANIFA PETROLEUM
MARINE SERVICES CO.
MCR ARABIA
METSCO HEAVY STEEL INDUSTRIES CO. LTD.
MIDAD

N
NANJING AUTO ELECTRIC CO., LTD (NAEC)
NAPESCO (NATIONAL ARABIAN PETROLEUM SERVICES COMPANY)
THE NATIONAL INDUSTRIAL TRAINING INSTITUTE (NITI)
NATIONAL OILWELL VARCO LP (NOV)
NATIONAL PETROLEUM TECH CO. (NESR)
NEWAY VALVE (SUZHOU) CO. LTD.
NOURYON (AKZONOBEL SPECIALITY CHEMICALS)
NOVOMET

O
OILSERV OILFIELD SERVICES (BVI) LTD.
OMS OILFIELD SERVICES ARABIA LTD
OWL CYBER DEFENCE

P
PETROJET COMPANY
PETROLINK
PIETRO FIORENTINI
PLIDCO

Q
QUALITY CONTROL SERVICES

R
RAWABI HOLDING
REDA OILFIELD
ROCK FLOW DYNAMICS
ROGI INC.

S
SAAB OILFIELDS SERVICES
SAFARI OIL & GAS CO., LTD.
SAUDI ARAMCO
SAUDI ARAMCO NABORS DRILLING - SANAD
SAUDI ARAMCO PETROLEUM SERVICES POLYTECHNIC (SPSP)
SAWAFI (SAWAFI BORETS LLC AND SAWAFI)
SCHUMBERGER MIDDLE EAST S.A.
SCHOELLER-BLECKMANN OILFIELD EQUIPMENT AG
SCIENTIFIC DRILLING INTERNATIONAL
SEG
SHEARWATER GEOSERVICES
SINOPEC
SINTEX INTERNATIONAL (MIRFAK SA)
SPE
SPF LIGHTING CO.

T
TAMIMI COMPANY
TANAJIB DERRICK EQUIPMENT COMPANY
TAQA
TENARIS - SAUDI STEEL PIPE
TGT OILFIELDS SERVICES
TIANHONG FRACTURING PROPPANT CO., LTD.
TIE TO

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UT QUALITY ARABIA

V
VALBRUNA GULF FZE
VALVITALIA (IES)
VAN OORD OFFSHORE BV
VIRTUAL SCIENTIFIC INDUSTRIES INC.

W
WEATHERFORD
WILDELL CONTROL
WORLEY
WUHAN LINMEI HEAD PLATE CO LTD

X
XECTA
XINMI WANLI INDUSTRY DEVELOPMENT CO. LTD

Z
ZAKHER MARINE
ZAMIL

EXHIBIT | SPONSOR | ADVERTISE | ATTEND

IPTC 2020 is a world-class platform to showcase your technological advancements and achievements to a highly qualified and multidisciplinary business and technical delegation.

The sponsorship packages have been designed to offer maximum exposure and visibility for organisations in the oil and gas industry. And exhibiting at IPTC 2020 offers an excellent opportunity to raise your company’s profile and create greater awareness of your brand. Showcase your latest products and services to key professionals in the industry.

For more information, contact: Sylvia Ansara, Senior Manager, Sales and Exhibits | sansara@iptcnet.org | +971.4.457.5815 | +971.50.458.5323
GENERAL INFORMATION

13–15 January 2020
International Petroleum Technology Conference
Dhahran EXPO
Kingdom of Saudi Arabia
2020.iptcnet.org

Opening Hours

<table>
<thead>
<tr>
<th>Date</th>
<th>Conference</th>
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<tbody>
<tr>
<td>Monday, 13 January</td>
<td>0830–1730 hours</td>
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<tr>
<td>Tuesday, 14 January</td>
<td>0800–1730 hours</td>
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<tr>
<td>Wednesday, 15 January</td>
<td>0900–1800 hours</td>
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Hotel and Visa Information
This is a non-residential conference so you are required to complete your own hotel booking(s). Please contact your preferred hotel directly or email IPTC’s partner for event management and organisation in KSA, Alfifa Tourism.

IPTC attendees travelling to Saudi Arabia must be in possession of passports valid for at least 6 months on arrival; attendees must hold a visa to enter Saudi Arabia issued by the appropriate authorities prior to departure from their home countries.

It is the sole responsibility of the attendee to obtain the necessary paperwork for entry to Saudi Arabia. IPTC delegates and visitors can contact their local Saudi Arabia Embassy or Consulate to confirm visa requirements or IPTC’s partner for event management and organisation in KSA, Alfifa Tourism.

Event Management and Organisation in KSA
Contact alfifa.com/iptc2020 or email iptc2020@alfifa.com for travel and visa assistance.

Media
IPTC sessions are protected by copyright laws. Photography and video/audio recording of any kind are strictly prohibited.

Shuttle Service
A complimentary shuttle service will be available to/from selected hotels, beginning Monday, 13 January to Wednesday, 15 January 2020.
REGISTRATION

Advance Registration
Advance registrations can be made online at: 2020.iptcnet.org/register

Become a Member and Save Money
IPTC is brought to you by membership organisations that cover all aspects of the energy industry. As a member of one or more societies, you will gain technical knowledge and build relationships that will benefit you throughout your career. Members also receive discounted registration for IPTC.

Find the organisation that’s right for you.

### Full Conference (3-Day Registration)

<table>
<thead>
<tr>
<th></th>
<th>By 29 November</th>
<th>After 29 November</th>
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<tbody>
<tr>
<td>Member*</td>
<td>USD 1,095</td>
<td>USD 1,195</td>
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<tr>
<td>Non-Member</td>
<td>USD 1,195</td>
<td>USD 1,295</td>
</tr>
<tr>
<td>Author/Presenter/Committee/Session Chair/Panelist/Academia</td>
<td>USD 900</td>
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Student (with valid university ID, does not include lunch and proceedings) Complimentary

*Membership in any of the IPTC sponsoring or endorsing organisations. Full conference registration includes access to all conference sessions, technical exhibition, coffee breaks, daily lunches, cultural reception, and one conference proceedings voucher.

### Group Registration (Full Conference)

Four paid delegates will avail one complimentary conference delegate.

|                        | USD 4,380 |
| Member* and Non-Member |         |

*Membership in any of the IPTC sponsoring or endorsing organisations. Full conference registration includes access to all conference sessions, technical exhibition, coffee breaks, daily lunches, cultural reception, and one conference proceedings voucher.

### 1-Day Registration

<table>
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<tbody>
<tr>
<td>Member*</td>
<td>USD 500</td>
<td>USD 600</td>
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<tr>
<td>Non-Member</td>
<td>USD 600</td>
<td>USD 700</td>
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<tr>
<td>Visitor (exhibition only, does not include technical sessions, lunch, and proceedings)</td>
<td>Complimentary</td>
<td>USD 25 (will apply after 6 January 2020)</td>
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</tbody>
</table>

*Membership in any of the IPTC sponsoring or endorsing organisations. 1-day registration includes access to the conference sessions, technical exhibition, coffee breaks, and lunch ticket for the specified day.

### 1-Day Workshop: Diversity and Inclusion in Oil and Gas (12 January)

<table>
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<th>By 29 November</th>
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<tr>
<td>Member* and Non-Member</td>
<td>USD 390</td>
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*Membership in any of the IPTC sponsoring or endorsing organisations. Workshop registration includes access to all sessions, coffee breaks, lunch, welcome reception and workshop dinner (if applicable), technical exhibition, and certificate of Continuing Education Units (CEU).

### 1-Day Seminars (12 January)

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<tr>
<td>Member*</td>
<td>USD 695</td>
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<td>Non-Member</td>
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</table>

*Membership in any of the IPTC sponsoring or endorsing organisations. Workshop registration includes access to all sessions, coffee breaks, lunch, technical exhibition, and certificate of Continuing Education Units (CEU).

### Ticketed Items

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<th>By 29 November</th>
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<tr>
<td>Lunch each day</td>
<td>USD 55</td>
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<tr>
<td>Digital Proceedings</td>
<td>USD 200</td>
<td>USD 300</td>
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*Membership in any of the IPTC sponsoring or endorsing organisations. If you are registering as a student, 1-day delegate, or exhibition visitor, the above items may be of interest.

### PAYMENT INFORMATION

All payments and invoices will be issued in USD only.

The following credit cards are accepted: American Express, Mastercard, Visa, and Diners Club.

**Cancellation Policy**
- Cancellation received by 29 November 2019 will be refunded less USD 150 processing fee.
- Cancellation received after 29 November 2019 will be refunded less USD 150 or 25% of the registration fee, whichever is greater.
- Cancellation after 19 December 2019 is not eligible for a refund. Substitutions or replacement names will be accepted.
- No refunds will be given if the delegate fails to attend.

Send your cancellation notice and refund request by email to iptcreg@iptcnet.org.

The Kingdom of Saudi Arabia introduced 5% VAT on goods and services from 1 January 2019. We will issue a VAT-inclusive invoice once our tax registration is complete. Until such time, payments will be processed and invoices will be issued without VAT.

CONTACT DETAILS | For more information, please contact iptc@iptcnet.org or call +971.4.457.5800.
Dammam is the regional capital of the eastern region of Saudi Arabia. This is home to a vast sea, beautiful beaches and excellent fishing spots. It is a favorite destination for tourists from different parts of the Kingdom. Dammam is considered as one of the most ancient inhabited places due to the discovery of many ancient artifacts in the Rakah neighborhood, pointing out that Dammam was a famous place for dwelling, a long time ago in the past.

For more information, visit https://www.sauditourism.sa/en/aboutKSA/Regions/Eastern/Pages/default.aspx

Eastern Province
The Eastern Province is home to most of the oil production of Saudi Arabia. Located in the eastern part of the Kingdom of Saudi Arabia it is like a jewel with bright colors. It boasts of beautiful gardens and sandy beaches on the shores of the Arabian Gulf. It is a combination of emerald green sea, beautiful corniches and green oases, in addition to sprawling desert where sights extend for miles together to distant horizons.

Discover the Charming Coast!
On the east coast of Saudi Arabia, you can see hundreds of fishing boats competing for space on the surface of the sea, as marine fishing was the traditional occupation here since the ancient times, and is still practiced by some.

Short Sea Cruises
Diving centers organise Eastern cruises programs that include fishing and diving in several tourist areas on the Arabian Gulf coast, such as, Jana, Jarid, Karan Kareen Island, as well as visiting ship wrecks at Half moon bay, and wreckage of sunken ships near the port of Dammam, Khobar and Al Qatif.

Weather
When the temperature in the summer surges, people enjoy the picturesque marine atmosphere along the seafront, and the winter comes with amazing rainbow formations, and rains continue to pour until the arrival of spring.

For more information, visit https://www.sauditourism.sa/en/aboutKSA/Regions/Eastern/Pages/default.aspx
SAVE THE DATE

23-25 March 2021
Kuala Lumpur Convention Centre
Kuala Lumpur, Malaysia

7,000+ energy professionals
70+ conference sessions

3,000+ sqm exhibition
20+ hours of networking opportunities

100+ exhibiting companies
60+ countries represented

www.iptcnet.org
Using cameras and sensors to document geological features, our GeoDrone solution improves the safety and accuracy of field data while reducing costs, since geologists can conduct field trips from their desktops.

Advanced technology will always play a pivotal role in helping us to improve oil well productivity, increase recovery, and deliver best cost efficiency. At Saudi Aramco, we believe innovation is the key to helping people reap the benefits from all the opportunities inherent in our resources, and their resultant products.

In alignment with our belief in innovation, we are proud to be the host of the 2020 International Petroleum Technology Conference.