exclusive host

aramco



# POST-EVENT REPORT

sponsoring societies



EAGE

EUROPEAN
ASSOCIATION OF
GEOSCIENTISTS &









UNDER THE PATRONAGE OF

HIS ROYAL HIGHNESS PRINCE MOHAMMED BIN SALMAN BIN ABDULAZIZ AL-SAUD

CROWN PRINCE, DEPUTY PRIME MINISTER AND MINISTER OF DEFENSE

OF THE KINGDOM OF SAUDI ARABIA

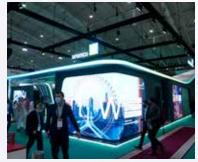
## The 14th edition of the International Petroleum Technology Conference (IPTC) attracted over 13,200 attendees from 2,690 companies, and 74 countries.

This successful edition returned to the Kingdom of Saudi Arabia in 2022, building on the strong foundation established by IPTC 2020 which was the first international multi-disciplinary, inter-society oil and gas conference and exhibition to be held in the Kingdom. IPTC 2022 received the patronage of His Royal Highness Prince Mohammed bin Salman bin Abdulaziz Al-Saud, Crown Prince, Deputy Prime Minister, and Minister of Defense of the Kingdom of Saudi Arabia, with Saudi Aramco serving as the exclusive host.

Founded in 2005, IPTC is sponsored by four of the leading industry organisations in oil and gas: 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). IPTC is focused on the dissemination of new and current technologies, best practices and multi-disciplinary activities designed to emphasise the importance of the value chain and maximising asset value.















Themed Fuelling Global Recovery
Through Sustainable Energy, this
edition of IPTC focused on upstream
sector resilience, technological
advancement, and ecosystem
evolution in the industry.

## IPTC BOARD OF DIRECTORS

The IPTC Board of Directors was formed in June 2010 to oversee the management of IPTC. The Board is made up of members elected from IPTC's four organising societies.

Members of the Board are appointed to three-year terms. The two principal officers, the Chairman and the Vice Chairman, are elected to two-year terms by the Board during their annual meeting.



Adif Zulkifli **Executive Vice President** and CEO, Upstream PETRONAS Society of Petroleum Engineers



Pinar O. Yilmaz Vice Chair American **Association** of Petroleum Geologists



Pascal Breton **TotalEnergies European Association of** Geoscientists and Engineers American Association



Misfir AzZahrani Saudi Aramco of Petroleum Geologists (Retired as of 30 April 2022)



Mahmoud M. Abdulbagi **European Association** of Geoscientists and Engineers



Mohammed Badri Technology and Strategic Partnership MEA John Crane - Smiths **Society of Exploration** Geophysicists



**PETRONAS Exploration** Society of Exploration Geophysicists



SGS Subsurface Consultancy Society of Petroleum Engineers







### **EXECUTIVE COMMITTEE**



Nasir K. Al-Naimi **Executive Committee Chair** Saudi Aramco

## **HOST COMMITTEE**



Khalid A. Zainalabedin Chair Saudi Aramco

## PROGRAMME COMMITTEE



Ashraf AlTahini Chair Saudi Aramco



Suhaileen Shahar Co-Chair **PETRONAS** 



Zeid M. Al-Ghareeb Co-Chair Saudi Aramco

## **AAPG SUBCOMMITTEE**



Yasir Al Hajri Co-Chair PDO



Abdulaziz Mansour Co-Chair Saudi Aramco

## **EAGE SUBCOMMITTEE**



Mohammed Husain Co-Chair Saudi Aramco



Wael Abdallah Co-Chair Schlumberger

## **SEG SUBCOMMITTEE**



Beth Rees Co-Chair GeoSoftware



Abdulaziz Al-Saad Co-Chair Saudi Aramco

## **SPE SUBCOMMITTEE**



Rami Bakir Co-Chair Messaben



Mohammed Alaskar Co-Chair Saudi Aramco



Adel Algahtani Co-Chair Saudi Aramco



Nabil Al Bulushi Co-Chair PDO

## **AWARD COMMITTEE**



Mahmoud M. Abdulbaqi Chair



## **INDUSTRY 4.0 SUBCOMMITTEE**



Umar Alnahdi Co-Chair Saudi Aramco



Saleem R. Bitar Co-Chair The Sailors Al

### MIDSTREAM OPERATIONS SUBCOMMITTEE



Mohammed Al-Abdulgader Co-Chair Saudi Aramco



Nayef AlSadhan Co-Chair Saudi Aramco

## SUSTAINABILITY SUBCOMMITTEE



Aaesha Al Keebali Co-Chair ADNOC



Adam Hawkes Co-Chair Imperial College London



Ali Al-Yousif Co-Chair Saudi Aramco

## **UNCONVENTIONAL RESOURCES SUBCOMMITTEE**



Hassan Al Marzoogi Co-Chair ADNOC



Ahmed Alhakami Co-Chair Saudi Aramco



Ziad Al Jalal Co-Chair TAQA

## YOUNG MEMBER ACTIVITIES COMMITTEE



Hind Al-Rayes Young Member Activities Committee Chair Saudi Aramco



Suhana Sidik Young Member Activities-Education Week Co-Chair **PETRONAS** 



Meshary Al-Ayed Young Member Activities-Emerging Leaders Forum Co-Chair Schlumberger

## **DIVERSITY AND INCLUSION PROGRAMME COMMITTEE**



Najwa Al Az<u>aimi</u> Chair Saudi Aramco



Mohamed Al Marzougi Co-Chair ADNOC







## SPONSORS AND SUPPORTERS

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**Diamond Sponsors** 





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**Platinum Sponsors** 











## **SPONSORS AND SUPPORTERS**

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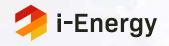




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The Leading Edge

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**Closing Session and Ceremony Sponsor** 



Floor Graphics Sponsor



**Media Supporter** 



## 13,231 **TOTAL ATTENDEES**



COUNTRIES

## IPTC 2022 in Numbers



## **EXHIBITORS**

**EXHIBITORS AND CO-EXHIBITORS** 

COUNTRIES

EXHIBITION (NET)

## **CALL FOR PAPERS**

ABSTRACTS SUBMITTED

338

**COMPANIES** 

COUNTRIES

## **TECHNICAL PAPERS**

**ABSTRACTS SELECTED** 

COMPANIES

COUNTRIES

PAPERS PRESENTED

SESSION **PRESENTATIONS**  **ePOSTER PRESENTATIONS** 

## CEO Plenary Session Leading the Global Recovery for a Sustainable Future

The COVID-19 pandemic disruptions have fundamentally affected the energy industry in several facets including profitability, demand, supply chain, workforce availability and much more. In this plenary session, energy leaders discussed the ways in which they guided the industry to respond, adapt and recover during challenges times.

They shared their views on how to shape the new reality of energy industry, illustrating the steps towards a sustainable industry transition. 1/

We need to have better engagement to work together with the support of policy makers around the world.

"

Amin H. Nasser
President and CEO
Saudi Aramco

.

Adif Zulkifli
Executive Vice President and
Chief Executive Officer, Upstream

I think there is a lot of focus

now in terms of cleaning

that will allow us to decarbonise.

our industry, a lot of focus

on decarbonisation, putting

investment into technologies

PETRONAS







11

I am so proud of our industry because over the more than 100 years we've been in the industry, we've always been able to solve our problems..."

"... We've got a lot of youth that are about to take over our industry and will do amazing things.

17

Vicki Hollub

President and CEO Occidental Petroleum





11

Oil and gas is here to stay. We need the brightest minds in the industry, and we need to continue to attract young and talented people, so they take us to the next level.

"

#### Nasir K. Al-Naimi

Senior Vice President, Upstream Saudi Aramco



## Executive Special Session

## Navigating Through a Dynamic Market

In this session, industry executives focused on the importance of resilience and adaptability in transforming challenges to opportunities. Collaboration, technological changes, and innovation were highlighted as key factors in the advancements of processes that yield more economic and efficient recovery of hydrocarbons translating to greater returns.



## Panel Sessions

4 panel sessions at IPTC 2022 highlighted a wide range of strategic topics to help attendees deepen their knowledge and understanding of cutting-edge technologies, current trends and the future of the industry.







## Panel Session topics included:

- Energy Transition: Towards a Profitable and Sustainable Future
- Circular Carbon Economy and Policies: Achieving Win-Win
- IR 4.0 Technology<sup>r</sup>
- Agility and Resilience in the Midst of Change









## Industry Leaders and Experts at IPTC 2022



Amin Nasser President and CEO Saudi Aramco



Adif Zulkifli Executive Vice President and CEO Upstream PETRONAS



Vicki Hollub
President and
CEO
Occidental
Petroleum



Scott Sheffield CEO Pioneer Natural Resources



Olivier Le Peuch CEO Schlumberger



Nasir K. Al-Naimi Senior Vice President Upstream Saudi Aramco



**Lorenzo Simonelli** Chairman and CEO Baker Hughes



Eric Duchesne Senior Vice President Technical Lines TotalEnergies



Clay Neff President Chevron Middle East, Africa, South America Exploration and Production Company



**Eithne Treanor** ETreanor Media



Ashraf Al-Ghazzawi Executive Director Strategy and Market Analysis Saudi Aramco



Abousleiman MENA Director World Bank



Fatema Al Nuaimi CEO ADNOC LNG



Sherif Foda Chairman and CEO NESR



Iván Martén Senior Partner Emeritus BCG



Kamel Ben-Naceur CEO Nomadia Energy Consulting



Ahmad Al Khowaiter Chief Technology Officer Saudi Aramco



Simon Flowers Chairman, Energy and Chief Analyst Wood Mackenzie



Mazuin Ismail Senior Vice President Corporate Strategy PETRONAS



Demosthenis
Pafitis
Chief Technology
Officer
Schlumberger



Pierce Riemer Director General World Petroleum Council



Kate Dourian Contributing Editor MEES



Nabil A. Al-Nuaim Vice President Digital Transformation Saudi Aramco



Patrick Bangert
Vice President
Artificial
Intelligence
Samsung



**Eimear Bonner** Vice President Chevron



Rachid Majiti Senior Partner McKinsey & Company



Nagaraj Srinivasan Senior Vice President Landmark and Halliburton Digital Solutions

## Industry Leaders and Experts at IPTC 2022



**Dan Wright** CEO DataRobot



Jaco Fok Innovation and Digitalisation Consultant



Abdul Hameed Al Rushaid Vice President Drilling and Workover Saudi Aramco



Eric Boudier
Managing
Director and
Senior Partner
BCG Fellow
BCG



Scott F. Donald Chief Sales Officer NOV Wellbore Technologies



Jesus Lamas President Well Construction Division Schlumberger



Girish K.
Saligram
President and
CEO
Weatherford
International



Mike Gunningham Chief Production Technologist SGS Subsurface Consultancy



Gretchen Gillis Senior Geological Consultant Aramco Americas



Dirk John Orlowsky Geophysicist in Charge DMT



Anna Shaughnessy Senior Consultant Interpretation\*\*3



Vitoon Chaisomboonpan Vice President Middle East Joint Venture Asset General Manager UAE PTTEP



**Zied Ben Hamad** CEO Afkar Ventures



Peter Gilchrist
Senior
Consultant,
Biodiversity
Saudi Aramco;
Vice Chair
Biodiversity and
Ecosystem
Services Working
Group
IPIECA



Adam Sieminski Senior Advisor KAPSARC



Nihal Darraj Graduate Teaching Assistant Imperial College London



Othman Almoamar Community Engagement and Research Program Manager MiSK Foundation



Najwa Al Azaimi Director Management and Professional Development Saudi Aramco



Omar Saleh Vice President, Enterprise Business Microsoft Arabia



Hind Al-Rayes Senior P&PM Analyst Saudi Aramco

## Technical Sessions at IPTC 2022

100+ technical sessions took place across the three days, covering a range of disciplines, including geosciences, reservoir engineering, drilling and completions, sustainability, midstream operations, IOR/EOR, production engineering, unconventionals, IR 4.0 and overarching themes.

In total, the Programme Committee reviewed more than **4,200 paper submissions** and selected more than **800** to form the technical agenda.













## IPTO 2022 Features

## IPTC Society Presidents Panel Session

The IPTC Society Presidents Panel Session featured the presidents of IPTC's four sponsoring societies, 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).

They shared their perspectives about their visions and how the latest technological advances are shaping the future of the industry.

## **Ask the Expert Sessions**

Two 'Ask the Expert' sessions featured leading academics and industry professionals who discussed the topics, Enabling Biodiversity to Thrive through Effective Circular Carbon Economy, and Reskilling for the 2025 Market.

## Knowledge Sharing ePoster Sessions

194 ePoster sessions took place during the three days at IPTC, where authors presented their papers and attendees had the opportunity for further knowledge sharing and networking opportunities.

## IPTC "Excellence in Project Integration" Award Showcase Session

All 3 finalists presented the details of their projects and answered audience questions in a special 90-minute session. during the conference.

### Seminar

The seminar **Technology Advances** and **Energy Transition for Sustainability** highlighted different initiatives relating to sustainability aspects, energy efficiency, and future energy supply.





# IPTC "EXCELLENCE IN PROJECT INTEGRATION" AWARD

The IPTC "Excellence in Project Integration" Award recognises completed projects of **USD 500 million or more** that add value to the industry and exemplify strong teamwork, solid geoscience knowledge, reservoir and production engineering acumen, determined and watchful construction, and outstanding facilities engineering practices.

The winner for IPTC 2022 was **Zohr by Eni**.



# Diversity and Inclusion Workshop

## Beyond Diversity: Focusing on Inclusion

The workshop focused on the current trends, best practices, critical challenges, and collaborative solutions in diversity and inclusion. The sessions also gave attendees the opportunity to discuss the achievements and progress that the industry has made.

Session topics included:

The "I" in D&"I"—Are We Ready?

Tolerance to Understanding and Holding
Courageous and Difficult Conversations that Matter

D&I: A Catalyst for Corporate Sustainability—How D&I Initiatives Can Drive Sustainable Results

The Future of Artificial Intelligence—Through the Lenses of Inclusion

Equity versus Equality—Equity is About Fairness, Whereas Equality is About Sameness













## Young Member Activities

### **Education Week**

This programme aims to give students from around the world a clear insight into the industry they are about to join and provide them with the opportunity to interact with a number of major industry employers who are looking to recruit the best talent from institutions around the world.

This year, over **450 student applications** were received globally, of which **86 students** representing **44 institutions and 17 countries participated** in this year's Education Week.

During the five-day programme, students were divided into groups to work on this year's challenge—an updated version of the 'Unlock the Reserves' challenge, which was initially introduced in 2020 in collaboration with Schlumberger. The students also had the chance to attend the IPTC exhibition and sessions, as well as participate in a Geo Steering Challenge and professional development sessions tailored specifically for Education Week students. Lastly, students were treated to an inspiring field trip to Dahil Heet Cave to learn the story of oil discovery in Saudi Arabia, followed by a visit to the traditional Najd Village where students had a taste of local culture and cuisine.

## **Science Teachers Workshop**

The IPTC Science Teachers Workshop highlighted how energy works, and provided school teachers from the Kingdom with interactive, age-appropriate experiments using basic household items to illustrate energy concepts. The idea of the experiments is that they can be brought straight to the classroom with ease, and in a sustainable manner. The workshop welcomed over 40 science teachers.

## **Emerging Leaders Forum**

This exciting one-day forum offered the opportunity for young professionals to get together for an interactive day of education, inspiration, and collaboration. The day opened with a Leadership Panel, featuring Ghassan Mirdad, Schlumberger, and Einas Alashgar, Spark, followed by a 'Dive into Deep Learning,' with talks about negotiation skills from Lisa Silipigno, Schlumberger, and personal branding from Najwa Azaimi, Saudi Aramco. In the afternoon, the young leaders participated in an interactive group session allowing them to put their newly learned skills to work—splitting into small groups, they worked on two real-life inspired CEO case studies under the guidance of Madhi Al-Adel, Saudi Aramco Ventures, and Deem Al-Bassam, SALT and Parkers Restaurants. The event welcomed emerging leaders from around the world.









## World-Class Exhibition at IPTC 2022

The **7,099 sqm**. exhibition featured **228 companies** from **17 countries**, who exhibited their products and services, and showcased their latest projects, solutions, and technologies.

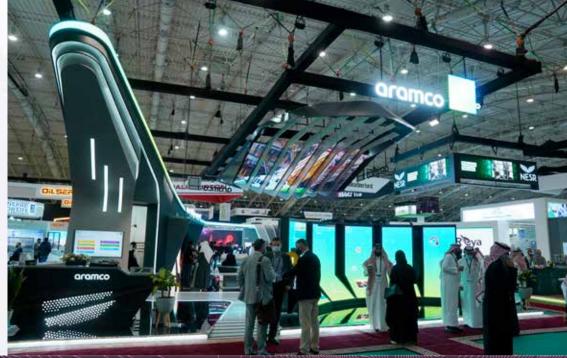












## Exhibitors

Abdel Hadi Abdullah Al Qahtani & Sons (AHQ)

Abdul Rahman Al-Otaishan & Sons Group Co. LLC. (AOSCO)

Abu Dhabi National Oil Company (ADNOC)

Acceleration Company Limited (ACCELL)

**ADES Saudi Limited Company** 

Advanced Upstream

**AFKAR Ventures** 

Air Products Qudra

Al-Abdulkarim Holding (AKH)

Alkhafji Joint Operations

Al Saadoun Transport

Alkhorayef Petroleum Company

Almajdouie Logistics Company

AlMansoori Specialized Engineering

Alwasail Industrial Company

American Association of Petroleum

Geologists (AAPG)

Aramex

Armada Rig Builders Pte. Ltd.

**ARO DRILLING** 

**ASH Group** 

Autoworld

Awal Equipment Hiring Company

#### B

**Baker Hughes** 

Bin Quraya

**Business Wear Uniform Company** 

#### C

CGG

ChampionX

Cognite

Crucial Solutions & Services (CSS)/ Seeg Corporation

#### D

Dayim Equipment Rentals
DeGOLYER and MacNAUGHTON
Delta Corporation

Delta Corporation

Dhahran Geoscience Society (DGS) Diversified Lines Petroleum Services

(DLPS)

Draeger Arabia

#### E

Endegs Mobile Emission Treatment Company

**ENPRO Oil & Gas** 

EROG - Earth Reservoir For Oil

And Gas

European Association of Geoscientists & Engineers (EAGE)

**Expertise Contracting Company** 

**EXPRO** 

Exterran

#### F

Fathom Solutions
Front End
Future Pipe Industries

#### G

Gas and Oil Technologies (GOtech)
Gas Equipment & Contracting Co.
(GECE)
GEOLOG International

#### Н

Halliburton Helmerich & Payne

#### IFS

Immensa Additive Manufacturing Industrial Projection Contracting Co. (IP)

Innovar Solutions Saudi Company Intelligent Energy Services Co. Ltd. (i-Energy)

Intertek

Interwell

#### J

Japan Oil, Gas and Metals National Corporation (JOGMEC) Jazeera Factory For Paints Company Juffali Industrial Product Company (JIPCO)

#### IX.

Kanoo Industrial & Energy
KAUST: King Abdullah University of
Science and Technology
Khair Inorganic Chemical Industries
Co (InoChem)

#### N

Manifa Petroleum Services
Mejdaf Trading Company
METSCCO Heavy Steel Industries
Microsoft
Midad

#### IN

Namthaja

National Energy Services Reunited Corp. (NESR)

National Industrial Training Institute (NITI)

NOGAHOLDING, Bapco, Tatweer Petroleum

NOV

**NOVAsat Company** 





## Exhibitors

Oil and Gas News

Oil Industry Supplies & Services
OilSERV Oilfield Services (BVI)

Olayan Saudi Holding Company (OSHCO)

**OMS Oilfield Services Arabia** 

P

Perfect Vision Factory Petrojet Company

Pietro Fiorentini

Q

Qemat Najd Oil Wells Services Company

ĸ

REDA Hazard Control Rock Flow Dynamics LLC Rogii

ls

SAFIA Measurements Company

Saja Energy

Salama Engineering Industry

SASIB

Saudi Arabian Drilling Academy (SADA)

Saudi Aramco

Saudi Aramco Nabors Drilling -

SANAD

Saudi Multichem

Saudi NAPESCO

Saudi Perfect Pumps for Trading &

Manufacturing

Saudi Petroleum Services Polytechnic (SPSP)

Sawafi

Schlumberger

Schoeller - Bleckmann Oilfield

Equipment

Shaheen Arabia Company for

Industry

SINOPEC

Sintex International

Society of Exploration

Geophysicists (SEG)

Society of Petroleum Engineer (SPE)

Society of Petroleum Engineers -Kingdom of Saudi Arabia Section

Solutions by STC

SparkCognition

Subsea7

Tamimi Company for Commercial and Maintenance

Tamimi Energy

TAQA (Industrialization & Energy Services Company)

Services Compar

TCO

Technical Solutions Company for

Maintenance

TerraNova

The Association for Talent

Development MENA L&D Member

Network

Triplefast Middle East Ltd.

W

Walworth/ValveTech LLC

Weatherford

Wellbore Integrity Solutions Saudi

Arabia LLC

Welltec A/S

Whitson

Wild Well Control

Wuhan Linmei Head Plate Co., Ltd.

(GLM)

WWT International

Iγ

Yokogawa Middle East and Africa

7

Zamil Offshore Services Company Zerlux Hungary

Updates after 27 June 2022 will not be reflected.













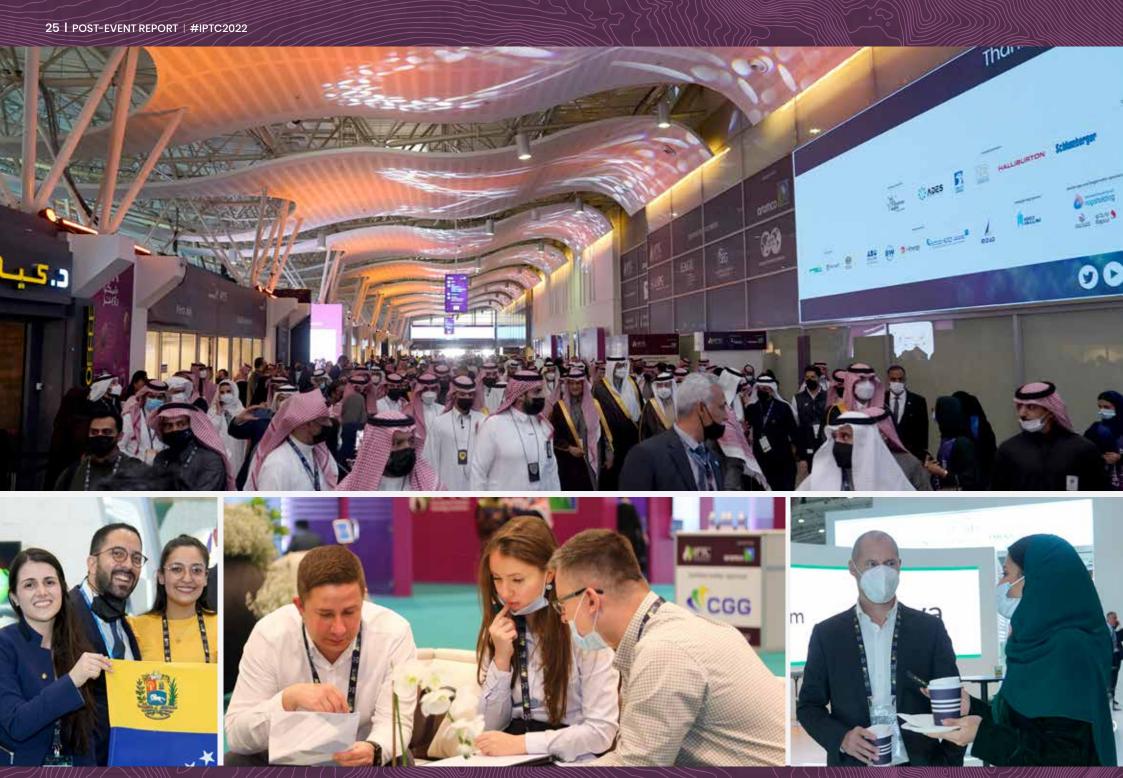












The International Petroleum Technology Conference (IPTC) is an international oil and gas conference and exhibition. The event rotates in various venues in the Eastern Hemisphere. The scope of the conference programme and associated industry activities addresses technology and relevant industry issues that challenge industry specialists and management around the world, particularly in the gas business and certain overarching issues such as HSE, Security, HR and training. IPTC is a collaborative event between the following societies:



The American Association of Petroleum Geologists (AAPG), founded in 1917, has been a pillar of the world-wide scientific community. The original purpose of AAPG, to foster scientific research, to advance the science of geology, to promote technology, and to inspire high professional conduct, still guides the Association today. Currently the world's largest professional geological society with approximately 40,000 members in 129 countries, AAPG provides publications, conferences, and educational opportunities to geoscientists and disseminates the most current geological information available to the general public. For more information, visit: www.aapg.org.



The Society of Exploration Geophysicists (SEG) is a notfor-profit organization committed to connecting the world of applied geophysics. With more than 20,000 members in 128 countries, SEG provides educational and technical resources to the global geosciences community through publications, books, events, forums, professional development courses, young professional programs, and more. Founded in 1930, SEG fosters the expert and ethical practice of geophysics in the exploration and development of natural resources, characterisation of near surface, and mitigation of earth hazards. For more information visit: www.seg.org.



The European Association of Geoscientists & Engineers (EAGE) is a professional association for geoscientists and engineers. Founded in 1951, it is an organization with a worldwide membership, providing a global network of commercial and academic professionals. The association is truly multidisciplinary and international in form and pursuits. EAGE operates two divisions: the Oil & Gas Geoscience Division and the Near Surface Geoscience Division. EAGE has around 19,000 members worldwide representing over 100 countries. All members of EAGE are professionally involved in (or studying) geophysics, petroleum exploration, geology, reservoir engineering, mining and civil engineering. For more information, visit: www.eage.org.



The Society of Petroleum Engineers (SPE) is a not-for-profit professional association whose more than 124,800 members in 134 countries are engaged in oil and gas exploration and production. SPE is a key resource for technical knowledge providing opportunities to exchange information at in-person and online events and training courses, publications, and other resources. For more information, visit: www.spe.org.



## **General Enquiries**

Email: iptc@iptcnet.org Telephone: +971.4.457.5800 Fax: +971.4.457.3164 Website: 2022.iptcnet.org

## **Upcoming Editions**

IPTC 2023 1-3 March 2023 Bangkok, Thailand

IPTC 2024 12-14 February 2024 Kingdom of Saudi Arabia