

تحت رعاية صاحب السمو الشيخ محمد بن زايد آل نهيان، رئيس دولة الإمارات العربية المتحدة
Under The Patronage of H.H Sheikh Mohamed Bin Zayed Al Nahyan, President Of The United Arab Emirates

Host



2 - 5 October 2023
Abu Dhabi, United Arab Emirates

TECHNICAL CONFERENCE CALL FOR PAPERS

ABSTRACT SUBMISSION DEADLINE:
FRIDAY 31 MARCH 2023

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Technical Conference
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THOUGHT LEADERSHIP AT ADIPEC

BE PART OF A GLOBAL SPEAKER LINEUP

The ADIPEC Technical Conference is the single largest technical meeting place for oil, gas and energy engineers and professionals worldwide, providing unprecedented access to the latest industry knowledge, innovations, technical expertise, applications, products, solutions and services.

Organised by the Society of Petroleum Engineers and spearheaded by Mr. Mohamed Al Marzouqi, ADIPEC 2023 Technical Programme Committee Chair and Senior Vice President, Development Function, ADNOC, the technical conference sessions cover a wide and diverse range of technical and engineering insights that will drive ideas, overcome challenges, create new value and highlight innovation.

With the Call for Papers now open, technical energy professionals have the opportunity to submit abstracts before **Friday 31 March 2023** to be considered for the ADIPEC Technical Conference.

ADIPEC 2022 Technical Conference In Numbers

4,148 Technical Abstracts Submitted	1,068 Abstracts Selected (540 Technical and 528 ePoster)	729 Submitting Companies From 72 countries resulted in 135 Technical Sessions	141 Technical Conference Sessions 135 Technical Sessions 6 Technical Panel Sessions
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Important Dates

JANUARY 2023	31 MARCH 2023	23 MAY 2023	2-5 OCTOBER 2023
ADIPEC Technical Conference Call for Papers Opens	ADIPEC Technical Conference Call for Papers Closes	ADIPEC Technical Conference Author Notifications	ADIPEC Technical Conference ADNEC, Abu Dhabi United Arab Emirates

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CONFERENCE PROGRAMMES AT ADIPEC

Combined with the Technical Conference, ADIPEC 2023 will host a total of 8 strategic and technical conferences that will address the changing energy landscape, encouraging debate and dialogue on the most important issues facing the sector today.



ADIPEC Conference Programmes

Energy markets are changing, driven by a set of micro and macroeconomic trends, transforming the way businesses operate and creating new pathways that drive innovation and sustainability.

It is against this backdrop that the ADIPEC 2023 conference programmes are shaped, providing both strategic and technical insights that gather over 1,500 global policy makers, energy CEOs and industry professionals to discuss key trends shaping the future of energy; what are the challenges and opportunities of the energy transition, geopolitical factors, new finance and partnership frameworks and the latest technical developments. Taking place pre-COP28, ADIPEC 2023 is positioned as the global forum for leaders to reinforce strategies and commitments that will drive the industry towards reducing emissions and meeting net-zero goals.

Strategic Conference

Securing affordable and clean energy systems

Technical Conference

Creating real value through technical expertise

Technical Conference
Organised By



Offshore and Marine Conference

Charting a low carbon future for the offshore and marine industry

Smart Manufacturing Strategic Conference

Transforming the future of global manufacturing

Smart Manufacturing Technical Conference

Industry 4.0: redefining technological innovation in manufacturing

The ADIPEC Forum for Diversity, Equity and Inclusion

Maximising the impact of diversity, equity and inclusion across the energy industry

Decarbonisation Conference

Creating decarbonisation strategies for a sustainable future

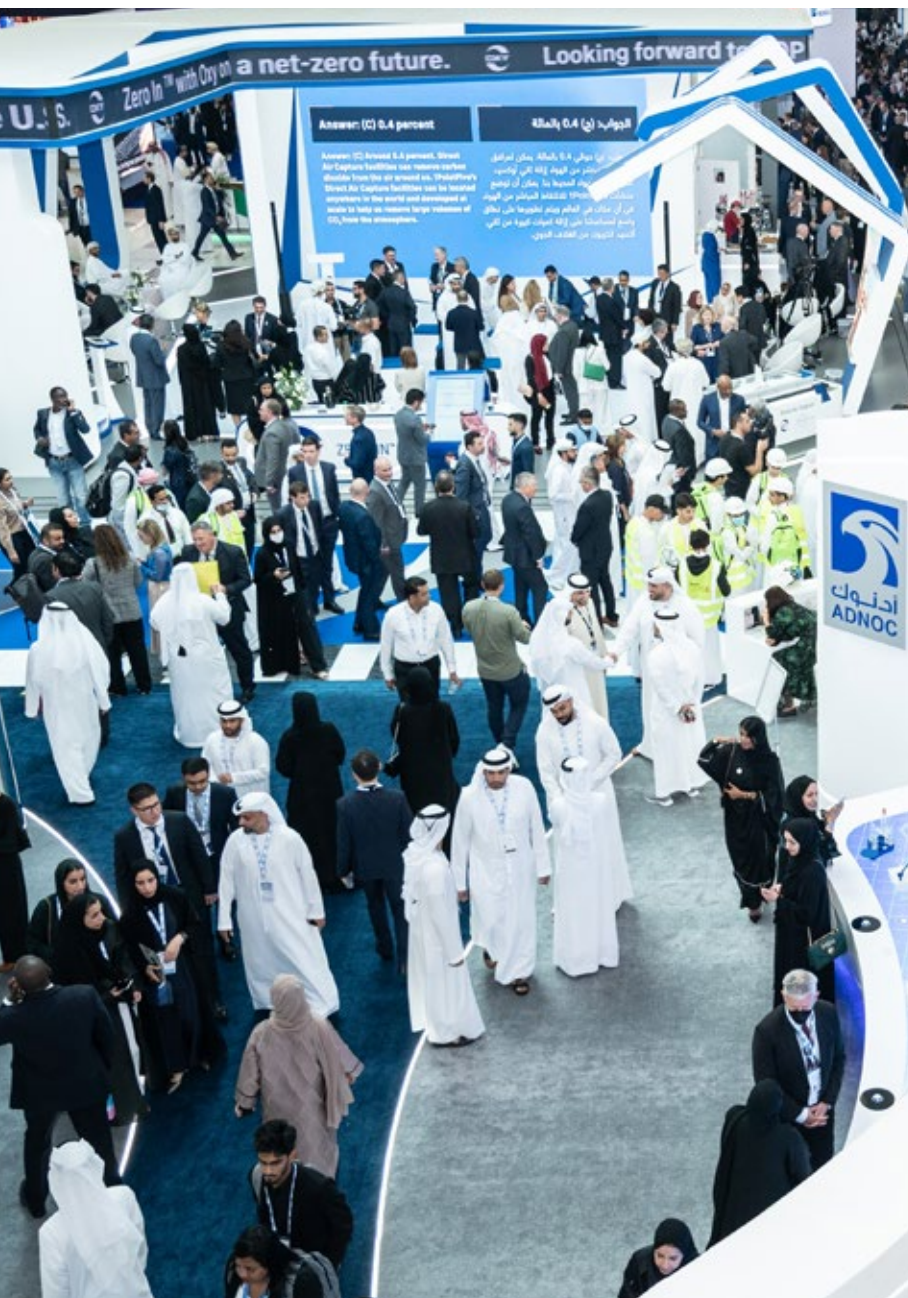
Downstream Technical Conference

Optimising downstream operations amid the energy transition

SHOWCASE YOUR EXPERTISE AND TECHNICAL KNOWLEDGE TO A GLOBAL ENERGY AUDIENCE

As the world's largest annual gathering of energy industry professionals, ADIPEC 2023, hosted by the Abu Dhabi National Oil Company (ADNOC), will address the critical challenges and opportunities in a collective future where energy is secure, affordable and sustainable.

Strategically taking place before COP28, ADIPEC will be the convening platform for policy makers, energy CEOs and industry professionals to address the critical factors influencing the energy ecosystem's transformation and how it plays a critical role as an enabler of the global economy.



ADIPEC in Numbers

160,000+

Attendees

15,000

Conference Delegates

350

Conference Sessions

1,500

Speakers

2,200

Exhibiting Companies

28

Country Pavilions

164

Countries Represented

WHY SUBMIT ABSTRACTS?

As an oil, gas and energy expert, you have the opportunity to join over 1,000+ speakers addressing the industry's most topical issues and presenting technological advances to industry peers from around the world.

The ADIPEC Technical Conference, organised by SPE, is the place to share best practices with your industry colleagues and network with industry peers through knowledge exchange.

1 ADIPEC hosts the world's biggest and most important technical conferences, attracting 9,375 delegates

2 Extend your influence as part of an exceptional Technical Programme

3 Present your technical thought leadership and experience to global industry peers and potential clients

4 Raise your company's technical profile at the industry's leading energy event



2023 TECHNICAL CONFERENCE CATEGORIES



AI and digital transformation



Completions

NEW



Drilling



Energy transition and decarbonisation



Field development



Geoscience



Marine operations and logistics

NEW



Health and safety



Operational excellence



People development and diversity



Project management



Unconventional resources development

ADIPEC TECHNICAL CONFERENCE COMMITTEE MEMBERS

ADIPEC 2023 TECHNICAL PROGRAMME COMMITTEE CHAIRMAN



The Technical Sessions at ADIPEC are a vital part of the conference, bringing together like-minded professionals to discuss, drive excellence, and propel our industry forward in a world that demands maximum energy with minimum emissions.

Together, we can enable greater innovation in technology across a whole range of areas—from addressing industrial challenges and seizing new opportunities to ensuring sustainability and driving profitability across our industry.

I encourage you to submit your abstracts before 31 March 2023 to be considered to present at the world's largest technical conference. //



Mohammed Al Marzouqi
SVP
Development Function
ADNOC

SUB-COMMITTEE CO-CHAIRS:

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Completions **NEW**

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Health, Happiness, Safety,
Environment and Quality Department
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ADNOC Logistics & Services

Co-Chair: Markus DeJonge

VP Offshore Mobile Solutions and Projects
ADNOC Logistics & Services

Operational excellence

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People development and diversity

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Unconventional resources development

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Ziad Al Jalal

FRAC Technical and Sales Director
Well Engineering and Geoscience
TAQA

TECHNICAL CATEGORIES FOR PAPER SUBMISSIONS

Technical Conference
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AI and digital transformation

- Digital and AI to Accelerate Low Carbon, Sustainability, and Energy Transition
- Talent Development and Upskilling in the AI and Digital Domain
- Applications of AI in HSE
- Edge Computing, Smart, Low Power, and Remote Sensors
- Applications of Computer Vision and NLP Applications in Operations
- Oil and Gas 4.0 Innovative Use Case, Successful Digitally Transformed Businesses
- Autonomous Operations/De-Manning of Oil Fields, and UAV Deployment
- Quantum Computing Applications (R&D) and Successful Implementations
- Field Mobility and Connected Worker
- Digital Twins Applications
- Blockchain in Oil and Gas
- Incubation and Acceleration in Oil and Gas Industry
- Additive Manufacturing Applications in Energy
- AR/VR and Mixed Reality Applications
- Breakthrough Technologies



Completions

NEW

- New Completion Technologies Qualifications and Techniques
- Advances in Well Completion and Associated Well Performance
- Advances in Surface and Downhole Completion Systems
- Upper and Lower Completion Design for Life-of-Well Interventions
- Rig and Rigless Artificial Lift Solutions
- Advances in Gas/Water Shutoff Techniques
- Breakthrough Stimulation Techniques Utilising Fit-for-Purpose Completion Design



Drilling

- Drilling Technology
- Drill Bit Technology
- Directional Drilling
- Drilling Automation and Remote Operations
- Well Design Efficiency
- Real-Time Monitoring and Drilling Optimisation
- Drilling Fluids
- Drilling Environment Challenges
- Best Practices in Drilling Operations
- Well Integrity Technology
- Wellbore Stability
- Well Intervention
- Well Control and Rig Equipment



Energy transition and decarbonisation

- CO2 Emissions Reduction in Drilling Operations
- Methane Measurement, Monitoring and Reduction
- Social Responsibility and Policies
- E&P Data Management, IT Infrastructure Excellence, and Sustainability
- Oilfields Electrification
- Energy Efficiency and Sustainability
- Carbon Footprint Traceability and Management
- Carbon Capture Utilisation and Storage (CCUS)
- Hydrogen Technologies Development and Deployment
- Renewable Technologies: Geothermal; Solar; Wind, Battery Storage; Biomass
- Refining and Oil and Gas Transport Sustainable Management

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Geoscience

- Advances in Regional Geology (Sedimentology, Biostratigraphy, Basin, and Structural Modelling)
- New Exploration Plays (Subtle Traps, Deep Plays)
- Making Better Decisions: Role of Geoscience in Uncertainty Assessment
- State of Art in Reservoir Characterisation (SCAL, RRT, Core Integration, PNM, Digital Rock Physics)
- Structural Geology, Rock Physics, and Geomechanics
- Making Better Decisions: Data-Driven Analytics Application in Geoscience
- Advances in AI, Machine Learning and Automation in Geoscience Applications
- Advances in Seismic Acquisition and Processing
- Advances in Seismic Reservoir Characterisation (Inversion, 4D)
- Open and Cased Logging Technologies and Interpretation Methods
- Emerging Logging Technologies and Interpretation Methods
- Role of Geoscience in Energy Transition
- Geostatic and Geological Modelling
- R&D: Geoscience Technology Development and Deployment
- Case Studies: Example of New Technology in Geoscience
- Breakthrough Technologies



Marine operations and logistics

NEW

- Subsea Engineering, Installation and Underwater Technology—Emergency Pipeline Repair System (EPRS)
- Subsea Engineering, Installation and Underwater Technology—Pipelaying
- Subsea Engineering, Installation and Underwater Technology—Cable laying
- Subsea Engineering, Installation and Underwater Technology—Underwater Sub-Structure Maintenance and Sea Bed intervention
- Subsea Engineering, Installation and Underwater Technology—Environmental Impacts and Solutions
- Offshore Engineering Projects—Case Studies (Projects, Engineering, Construction - Lesson Learned)
- Offshore Engineering Projects—EPC Optimisation and Future
- Marine Engineering and Naval Advanced Technologies—OSV, Drilling Rigs, Lift-Boat Energy Management Systems and Decarbonisation
- Marine Engineering and Naval Advanced Technologies—OSV, Drilling Rigs, Lift-Boat Modern Designs, Construction and Optimised Operations
- Marine Engineering and Naval Advanced Technologies—OSV, Drilling Rigs, Lift-Boat Unmanned/Minimum Manned Technologies
- Marine Engineering and Naval Advanced Technologies—Flat-Top Cargo Barges - New Designs
- Marine Logistics—Integrated Logistics
- Marine Logistics—Offshore Breakbulk Challenges and Barge Solutions
- Marine Logistics—Freight Forwarder in Offshore Projects
- Marine Logistics—Digitalising in Marine Logistics
- Marine Logistics—Offshore Passenger Transportation
- Marine Logistics—Energy Transition in the Logistics



Field development

- Innovative Oil Development Plans
- Advances in Gas and Water Flooding Management, Surveillance and Production Technologies
- Challenging Oil Developments: Marginal Fields, Complex Reservoirs, and Mature Fields
- Innovative Gas Development Plans
- Development Challenges of Sour Gas, HP/HT Reservoirs, and Complex Gas Reservoirs
- Reservoir Modelling and Simulation: Challenges and Opportunities
- Digital Reservoirs and Data-Driven Applications for Field Development Domain
- Fluid Characterisation, PVT, and SCAL Case Studies
- Advances in Carbonate Stimulation and Rigless Intervention
- Integrated Asset Modelling Applications and Opportunities
- Chemical and Advanced EOR Applications
- CO₂ and Gas EOR Applications
- Well Completions and Artificial Lift Design
- Breakthrough Technologies to Unlock Opportunities and Maximise Recovery Factors
- Decarbonised Field Development Plans and Opportunities (New)



Health and safety

- HSE Culture and Human Factors in Performance Enhancement
- Integrating Asset/Operations Integrity, Process Safety, and HSE Management
- Best Practices in Gas Flaring and Emission Reduction
- Innovation in Environmental Protection
- Barriers, Controls, and Risk Management
- Advances in Road Safety
- Preventing Major Accidents and Lessons Learnt
- Artificial Intelligence and Technologies to Improve HSE Performance
- Managing Occupational Health Risk
- Mental Health and Wellbeing



Operational excellence

- HSE, Security, and Sustainability—Challenges, Technologies and Innovative Practices
- HSE, Security, and Sustainability— Flare Down Initiatives, Fugitive and Venting Emission Reduction Challenges, Technologies and Innovative Practices
- HSE, Security, and Sustainability— CO2 Management Challenges, Technologies and Innovative Practices
- Process Safety Challenges, Technologies and Innovative Practices
- Lean Operations Excellence Challenges, Technologies and Innovative Practices
- Autonomous and Remote Operations Challenges, Technologies and Innovative Practices
- Water Management Challenges, Technologies and Innovative Practices
- Flow Assurance Challenges, Technologies and Innovative Practices
- Maintenance 4.0 Challenges, Technologies and Innovative Practices
- Well integrity Challenges, Technologies and Innovative Practices
- Energy Optimisation and Transition Challenges, Technologies and Innovative Practices
- Reliability, Availability, Maintainability, and Inescapability Challenges, Technologies and Innovative Practices
- Surface and Subsurface Integration and Optimisation Challenges, Technologies and Innovative Practices
- Asset Performance 4.0 and Facility Management Challenges, Technologies and Innovative Practices
- Operations Excellence 4.0 Challenges, Innovative Solutions and Best Practices
- Production Constraints (Oil, Gas, and Produced Water Handling) Challenges, Technologies and Innovative Practices
- Production Cost Optimisation and Assurance Challenges, Technologies and Innovative Practices
- LNG operations Challenges, Technologies and Innovative Practices
- Asset Integrity Challenges, Technologies and Innovative Practices
- Operating Efficiency—Integration of Oil and Gas Facilities with Renewable Energy Sources
- Operating Efficiency—Circular Economy Projects
- Operating Efficiency—Advanced Process Controls



People development and diversity

- Leveraging IOCs Strategies for Staff Development in NOC's Partnerships
- Effective Nationalisation Strategies and Organisational Development
- Importance of Gender Diversity in Evolving Energy Landscape
- Leadership Development and Succession Management
- The Value of Diversity as a Workforce Strategy
- Knowledge Management
- Developing Capability for a Continuous Improvement Culture in a Changing Industry
- Cost-Effective Training and Development
- Workforce Engagement Strategies
- Staff of the Future Skills During Energy Transition

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Project management

- Challenges in Project Implementation and Operation/ Maintenance of Ultra-Sour Fields
- Using Synergies from O&G Project Knowledge to Foster and Advance Hydrogen Projects
- Emissions Reduction Challenge in New Investments (e.g. Decision Parameters, New Technologies, Risks, Strategies)
- Smart Field Technology/Automation and New Technologies Applied to Projects
- Ways to Face Today's Challenges to Ensure Fast-Track Implementation of Large Projects
- Technical and Assurance Challenge Associated with Different Partnership Models on Projects (e.g. BOT, 3rd Party Projects)
- Engineering, Procurement, Construction, Management: Strategies for Successful Project Execution



Unconventional resources development

- Unconventional Resources Evaluation, and Reserves
- Advances in Understanding of Shale Gas Transport and Simulation Modelling
- Exploration, Appraisal, and De-Risking Strategy
- Geological and Geophysical Characterisation
- Unconventional Advanced Petrophysical Characterisation and Modelling
- Unconventional Geomechanics
- Well Placement, Spacing and Geosteering
- Drilling and Completion Challenges and Lessons Learnt
- Recovery Enhancement of Unconventional Reservoirs
- Unconventional Production, and Facilities Design
- Unconventional Project Management and Planning
- Logistics and Operational Challenges in Developing Unconventional and Tight Hydrocarbon Reservoirs
- Artificial Intelligence, Machine Learning, and Data Analytics in Unconventional
- Economics, Uncertainties, and Risk Analysis Involved with Unconventional Development
- Emissions and Decarbonisation in Unconventional
- Sustainability, and Health, Safety, and Environment in Unconventional

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FOR OIL, GAS AND ENERGY ENGINEERS.**

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BY FRIDAY 31 MARCH 2023**

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Technical Conference organised by



CALL FOR PAPER GUIDELINES

Technical and ePoster presentations for the conference will be selected from paper proposals submitted to the conference Technical Programme Committee. Early submission is particularly important to ensure that the committee members have ample time to review the paper proposals. Late paper proposals will not be accepted. The deadline is **Friday 31 March 2023**.

Abstract content

A proper review of your abstract requires that it contains adequate information on which to make a judgment. Written in English and containing 450 words, paper proposals should include the following:

- Objectives/Scope: Please list the objectives and/or scope of the proposed paper. (25–75 words)
- Methods, Procedures, Process: Briefly explain your overall approach, including your methods, procedures and process. (75–100 words)
- Results, Observations, Conclusions: Please describe the results, observations and conclusions of the proposed paper. (100–200 words)
- Novel/Additive Information: Please explain how this paper will present novel (new) or additive information to the existing body of literature that can be of benefit to and/or add to the state of knowledge in the petroleum industry. (25–75 words)

Technical categories

Use the topics to indicate the topic that best describes your paper proposal. A primary choice is required. Paper proposals are evaluated on the basis of the information supplied on the paper proposal form in accordance with the following criteria:

- The proposed technical paper or ePoster must contribute to petroleum technology or be of immediate interest to the oil and gas industry, and should contain significant new knowledge or experience in oil, gas and energy industry.
- Data in the paper proposal must be technically correct.
- The proposed technical paper or ePoster may present information about equipment and tools to be used in exploration and production. Such paper proposals must show the definite applications and limitations of such equipment and should avoid undue commercialism and extensive use of trade names.
- The substance of the proposed technical paper or ePoster must not have been published previously in trade journals or in other professional or technical journals.

Prior to paper proposal submission, management clearance must be obtained. Any issues concerning clearance should be outlined when the paper proposal is submitted.

Commercialism

Enter a title that is concise, yet descriptive of the primary content and application of the proposed paper. SPE has a stated policy against use of commercial trade names, company names, or language that is commercial in tone in the paper title, text or slides. Use of such terms will result in careful scrutiny by the programme committee in evaluating paper proposals and the presence of commercialism in the technical paper or ePoster may result in it being withdrawn from the conference programme.

Submittal

- Obtain the necessary clearance for the proposed paper from your management.
- Submit your paper proposal online. It is critical that all information requested on the form be provided in full and in the order requested.
- Each author may submit a maximum of three paper proposals per conference. Additional paper submissions will require permission from adipec@spe.org.

Guidelines for accepted paper proposals

- Your paper proposal could be accepted for presentation in a technical or ePoster session.
- Authors whose abstracts are accepted will be required to provide a manuscript of 3000–7000 words for inclusion in the conference proceedings. SPE operate a “no paper, no podium” policy whereby if a manuscript with the associated forms is not received by **Thursday 27 July 2023**. It will be withdrawn from the programme and not allowed to be presented.
- Detailed instructions on the preparation of manuscripts and presentations will be sent to corresponding author of each accepted paper.
- SPE assumes no obligation for expenses by authors for travel, lodging, food, or other incidental expenses.
- Accepted authors will be offered a discounted full conference registration fee.

Copyright

All authors of technical papers or ePosters presented at the conference will be required to complete and submit a copyright release form to SPE or submit the copyright exemption form where applicable.

The paper proposal deadline is **Friday 31 March 2023**. An agreement to present a paper at this SPE conference carries an obligation to participate in the event. Manuscripts will be required. Authors whose paper proposals are accepted will be expected to provide a manuscript for inclusion in the Conference Proceedings. Authors who do not submit a manuscript and the associated forms by the due date will be withdrawn from the programme and not allowed to present.

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2 - 5 October 2023
Abu Dhabi, United Arab Emirates

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