



2023 油气田勘探与开发国际会议

International Field Exploration and Development Conference 2023

Call for Papers and Presentations

International Field Exploration & Development Conference (IFEDC) 2023 will be held in Wuhan, China from September 20th to 22nd, 2023.

This conference aims to bring together industry experts, leading engineers, researchers and technical managers as well as university scholars to share ideas and research achievements related to oil & gas exploration and development, and discuss the practical challenges encountered and the solutions adopted. It is the major leading conference related to oil & gas field exploration and development in the last decades in China to provide a platform to bridge the knowledge gap between China and other countries and regions.

We welcome all of the related experts to actively participate in this conference. Submit your abstracts and participate in this world-class event.

I. The Theme of IFEDC-2023

Efficient, Green and Intelligent Oil & Gas Exploration and Development tTheory & Technology Driven by the ‘Dual-carbon’ Policy

II. Committee

1. Organizers

China University of Geosciences (Wuhan)

Xi’an Shiyou University

Shaanxi Petroleum Society

2. Executors

College of Petroleum Engineering, Xi’an Shiyou University

Key Laboratory of Tectonics and Petroleum Resources Ministry of Education, China

Petroleum Engineering Professional Committee, Shaanxi Petroleum Society

Hubei Provincial Key Laboratory of Oil and Gas Exploration and Development Theory

and Technology

Xi'an Sinoline Petroleum Science & Technology Co., LTD.

3. Co-organizer

Heilongjiang Petroleum Society

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Liaoning Petroleum and Petrochemical Society

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China University of Petroleum (East China)

Institute of Rock and Soil Mechanics, Chinese Academy of Sciences

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CNPC Logging

CNPC Xibu Drilling Engineering Company Limited

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Sinopec Northwest China Petroleum Bureau

Sinopec Key Laboratory of Enhanced Oil Recovery for Fracture-vuggy Reservoirs

CNOOC (China) Co., Ltd. Tianjin Branch

Shaanxi Yanchang Petroleum (Group) Co., Ltd.

Sinochem Petroleum Exploration and Development Co., Ltd.

National Energy Continental Sandstone Old Oilfield Continuous Exploitation Research and Development Center

Western low-permeability-ultra-low-permeability reservoir development and management Engineering Research Center of the Ministry of Education

Heilongjiang Key Laboratory of Reservoir Physics and Seepage Mechanics

Collaborative Innovation Center for Unconventional Oil and Gas Exploration and Development in Shaanxi Province

Shanxi Provincial Key Laboratory of Oil and Gas Well and Reservoir Seepage and Rock Mechanics

Shaanxi Provincial Oil and Gas Field Special Technology Production Stimulation Key Laboratory

National Engineering Laboratory for Exploration and Development of Low Permeability Oil and Gas Fields

State Key Laboratory of Oil and Gas Reservoir Geology and Development Engineering

National Engineering Laboratory of Oil and Gas Drilling Technology

4. Journal Support

Springer Nature

Earth Science

Bulletin of Geological Science and Technology

Oil Geophysical Prospecting

Petroleum Exploration and Development

Petroleum Geology & Experiment

Well Logging Technology

Lithologic Reservoir

Fault Block Oil & Gas Field

Petroleum Drilling Techniques

Petroleum Geology and Recovery Efficiency

Xinjiang Petroleum Geology

Journal of Xi'an Shiyou University

Unconventional Oil & Gas

Xinjiang Oil & Gas

5. Media Support

Upstream Oil & Gas News

HXAN

China Petroleum Daily

China Chemical Industry News

China Reform Daily

Science and Technology Daily

Sunpetro

III. Scope of Topics

1. Basic Geological Theory of Oil & Gas Exploration and Development

- Sedimentation Geotectonics and Regional Geology
- Quantitative Simulation of Reservoir Sedimentary Diagenetic Process
- Mechanism of Petroliferous Basin in Precambrian
- Sedimentary System and Paleogeography Restoration Technology in Petroliferous
- Fine Grained Sedimentary Analysis Technology in Depression Area of Petroliferous
- Analysis Technology of ‘Source-Channel-Sink’ in Petroliferous
- Oil & Gas Evaluation Technology in Complex Fault Basin
- New Technology of Oil & Gas Basin Simulation
- Major Geological Events and Oil and Gas
- Deep Fluid Flow and Oil & Gas Reservoir forming Stage Confirmation
- Geothermal History and Oil & Gas Reservoir forming
- Hydrocarbon Generation of Source Rock in Precambrian
- Paleoclimate, Paleoenvironment and Hydrocarbon Source Rocks
- Analysis and Evaluation of Hydrocarbon Source Rocks
- Paleozoic Carrier System Analysis Technology
- Ultra-Deep Reservoir formation Mechanism
- Main Controlling Factors and Reservoir forming Mode Analysis Technology
- Flow Mechanism and Numerical Simulation Method of Deep Shale
- Physical Simulation Analysis Technology of Oil & Gas Accumulation
- Quantitative Simulation of Reservoir Sedimentary Diagenetic Process
- New Technology of Geological Rock Outcrop
- Geomechanics of Oil and Gas Exploration and Development

2. Geophysical Exploration Technology

- Seismic Exploration Acquisition, Processing and interpretation Technology in Complex Surface Area
- Seismic Evaluation Technology for Complex Oil and Gas Reservoirs

- Gravity, Magnetic, Electrical and Geochemical Exploration Technology for Complex Oil & Gas Reservoirs
- Unconventional Oil & Gas Geophysical Exploration Technology
- Satellite Radar Monitoring Technology for Oil and Gas Reservoir Subsidence
- integrated Technology of Seismic Geology and Engineering
- Application of New Technology and Equipment in Oil & Gas Exploration

3. Geophysical Well Logging

- Geophysics Well Logging (including Resistance, Sonic Wave, Magnetic Resonance Imaging, Neutron Density)
- Imaging Logging, Cased Logging, Slim Hole Logging, High Temperature Logging Technology
- Seismic While Drilling, Logging While Drilling, Electromagnetic Logging Technology
- Logging Interpretation and Evaluation of Conventional and Unconventional Reservoirs
- Sidewall Coring
- Geological Logging

4. Fine Reservoir Description

- Multi Scale Reservoir Description Technology
- Quantitative Characterization Technology of Micro Reservoir
- Quantitative Description Technology of Natural Fractures
- Fractured Vuggy Structure Carving
- Reservoir Heterogeneity Characterization Technology
- Characterization Technology of Seismic Sedimentology
- Reservoir Configuration and Sandy Structure Carving
- Smart Characterization Technology of Reservoir
- Geological Modeling Technology of Complex Oil & Gas Reservoirs
- Reserve Calculation and Evaluation Technology
- Quantitative Characterization and Evaluation Technology of Remaining Oil
- Rock Physics, Numerical Core Simulation
- Oil and Gas Reservoir Geology

5. Dynamic Reservoir Monitoring

- Oil Test and Gas Test Evaluation Technology
- Testing Technology of Formation Tester
- Geochemical Fingerprint Analysis
- Interpretation and Application of Pressure Well Test in Oil & Gas Wells
- Temperature Well Test Analysis
- Dynamic Liquid Level Monitoring Technology for Oil & Gas Wells
- Underground Distributed Optical Fiber Monitoring Technology
- Injection Profile Logging Technology
- Production Profile Logging Technology

- New Technology of Dynamic Monitoring and Analysis
- Monitoring and Analysis Technology of Unconventional Multi-Stage Fracturing Horizontal Wells
- Tracer Monitoring and Interpretation Technology and Its Application
- Backflow Tracer Monitoring of Multi-Stage Fracturing Horizontal Wells
- Production Profile Tracer Monitoring of Multi-Stage Fracturing Horizontal Wells
- Monitoring Technology of Water Drive Front by Potential Method
- Sagd System Monitoring and Data Analysis
- Measurement and Analysis Technology in Multi-phase Flow Wellhead and Manifold Point
- Dynamic Analysis Technology of Unconventional Reservoir

6. Reservoir Engineering and Management

- Theory and Experiment of Tight and Shale Oil & Gas Seepage
- Multi Scale Seepage Simulation Theory and Experiment
- Multi Field Coupled Seepage Simulation Theory and Experiment
- Analysis on Coupling of Seismic Wave Field and Reservoir Flow Field
- Influence Upon Oil and Gas Exploration by Reservoir Phase Analysis
- Reservoir Exploration Dynamic Analysis and Predict Technology
- Production Mechanism in Different Reservoirs and Well Completions
- Identification and Description of Preferential Path for Water-Flooding Sandstone Reservoir
- Remaining Oil and Gas Distribution Patterns
- Well Pattern Design and Injection Production Optimization Technology of partial Structure in Fractured Vuggy Reservoir
- Evaluation and Measures of Formation Damage
- Production Capability Evaluation in Complex Reservoirs
- Production Data Decreasing Analysis Technology
- Real-Time Analysis and early Warning in Well Production
- Optimized Cautions in Oil and Gas Reservoir Exploration System
- Oil and Gas Reservoir Plan and Design
- Description and Control Evaluation of Water invasion in Ultra Deep Reservoir
- Early Warning Technology of Water invasion in Ultra Deep Reservoir
- Integrated Technology of Seismic Geology and Engineering
- Oil and Gas Reservoir Management Technology
- Co-Operation Project Management
- Resource Classification and Management System, Specification and Coding
- Resource / Reserve Assessment Techniques and Case Studies
- QHSE Management System Construction

7. Reservoir Drilling and Completion

- Drilling and Completion Technology of Extended Reach Well
- Drilling and Completion Technology of Multi Branch Wells
- Slim Hole Drilling and Completion Technology

- Sidetracking and Completion Technology of Old Wells
- Drilling and Completion Technology of Radial Horizontal Well
- Drilling and Completion Technology of Deep and Ultra Deep Wells
- New Drilling and Completion Technology for Complex Structure Wells
- Geological Steering Drilling Technology
- Intelligent Drilling and Completion Equipment Technology
- New Technology of Well Completion and Cementing
- Research and Application of Chemical Treatment Agent for Drilling and Completion Fluid
- Prediction of Pore Pressure in High Temperature and High Stress Formation
- Wellbore Stability and Fluid-Structure Coupling Stimulation Technology
- Casing damage Mechanism and Precautions in Oil Well

8. Oil & Gas Production Engineering

- Hydraulic and Acidizing Fracturing Technology and Repeated Optimization Technology
- Extension Mechanism and Optimization Method Study on Reservoir Fracture
- Integrated Technology on Multistage Pulse Perforating and Fracturing
- Hydraulic Deep Penetration into Horizontal Well Technique
- Fracture Parameters Optimizations on Shale Oil and Gas Horizontal Well
- Simulation of Well Inflow Performance and Wellbore Multi-phase Flow
- Artificial Lifting Advanced Technology Applied for Oil Wells
- Drainage Gas Production Advanced Technology
- Advanced Stimulation Techniques on Separated Layers Water Injection Well
- Intelligent Layer Injection and Production
- Heavy Oil Thermal Recovery Techniques
- Production Techniques of in Situ Combustion
- Turbo-Charged Gas Mining Techniques
- Gas Well Dewatering Mechanism and Measurements
- Workover and Cleaning
- Updated Design for Oil Production Engineering
- Inspection Methods for Materials, Equipment and Tools in Oil Production
- Chemical Treatment Technology of Oil & Gas Field Wastewater

9. Enhanced Oil Recovery for Oil & Gas Reservoirs

- EOR by Polymer Flooding, Terpolymer Flooding and CO₂ Flooding
- EOR by Profile Control in High (Ultra-High) Water Cut Oilfield
- EOR by Microbial Flooding
- EOR by Discontinuous Phase, Non-Wetting Phase and Micro Lotion
- EOR by Self-Drive Well and injection & Production in the Same Well
- Enhanced Oil Recovery Technology of Heavy Oil Thermal Recovery
- Supplement Formation Energy in Tight Oil & Gas Reservoir
- Theory and Method of Water Injection Development and Gas Injection for in Deep Carbonate Rocks

- EOR in Unconventional Reservoir

10. Coalbed Methane Exploration and Development

- Exploration and Development Technology of Coalbed Methane Resources
- Coalbed Methane Reservoir Evaluation Technology
- Drilling and Completion Technology of Horizontal Well and Cluster Well
- Mechanism of Coalbed Methane and Coal Measure Gas Combined Production
- Coalbed Methane Drainage Technology and Technology
- Production Increase and Beneficiation Technology of Coalbed Methane
- Drainage and Utilization Technology of Coalbed Methane and Gas in Coal Mine
- Coalbed Methane Surface Gathering and Transportation Technology
- Application of Coalbed Methane Artificial Intelligence and Big Data Drainage and Production Technology

11. Geothermal Resource Exploration and Development

- Ultra-High Temperature Geothermal Exploration Technology
- Deep Geothermal Exploration Technology
- Shallow Geothermal Application Technology
- Research on Geothermal Energy Development and Operation and Digital and intelligent Development
- Heat Fluid Solid Coupling Transition Theory
- Research on Integrated Development of Geothermal Power Generation and Other Renewable Energy
- Research on Geothermal Energy Development and Operation and Digital and Intelligent Development
- Research on Geothermal energy and Multi-energy Complementary

12. Natural Gas Hydrate Exploration and Development

- Fundamental Studies on Natural Gas Hydrate Reservoir Formation
- Exploration Techniques to Natural Gas Hydrate Resource
- Stimulated Test on Natural Gas Hydrate Resource
- Mining Test and Environment Monitoring on Natural Gas Hydrate
- Exploration and Development on Offshore Natural Gas Hydrate
- Exploration and Development on Onshore Natural Gas Hydrate

13. Carbon capture, Utilization and Storage (CCUS)

- Carbon Dioxide Capture and Purification
- Carbon Sequestration Reservoir Exploration and Geological Evaluation
- CO₂ Used in Oil and Gas Field Exploration and Development
- Theory and Techniques on CO₂ Geological Sequestration
- CO₂ Application and Techniques
- CO₂ Enhanced Geothermal Recovery Technology
- Risk Evaluation in CO₂ Storage
- Carbon Trade and CCUS Economic Evaluation

- CCUS Coupled Hydrogen Production
- Intelligent Strategic and Analysis on CCUS

14. Gas Storage Facility Construction and Operation Management

- Construction Technology of Gas Storage in Depleted Oil & Gas Reservoir
- Construction Technology of Aquifer Gas Storage
- Construction Technology of Salt Cavern Gas Storage
- Construction Technology of Abandoned Pit Gas Storage .
- Multi-cycle Injection and Production Dynamic Evaluation
- Safety Management on Gas Storage
- Operation Management on Gas Storage

15. Artificial Intelligence and Big Data Application in Oil & Gas Fields

- Digital and Intelligent Application Technology of Oil & Gas Field Exploration
- Internet of Things and Its Application Technology in Oil and Gas Field Development
- Intelligent Data Management and Shared Application in Oil & Gas Field Exploration and Development
- Big Data and Artificial Intelligence Technology for Oil & Gas Field Development
- Cloud Platform and Cloud Native Techniques for Oil & Gas Field Development
- Digital Twins and Production Optimization Techniques Oil & Gas Field Development
- Knowledge Discovery and Machine Learning in Oil & Gas Field Exploration and Development
- Oil & Gas Field Development Application Software and Its Database Standard

IV. Requirements for Paper Collection

1. **Abstract Submission Deadline:** 30 April, 2023

Full Paper Submission Deadline: 16 May, 2023

2. Abstract Submission Guideline

A proper review of your abstract requires that it contains adequate information on which to make a judgment. An abstract must be a fully self-contained, capsule description of the paper. Written in English and containing 235-450 words, paper proposals should include the following:

- Objective/ Motivation/Scope
- Methods, Procedures, Process
- Results, Observations, Conclusions
- Technical Contributions/Novel/Additive Information
- Key words

3. Full Paper Submission Guideline

Proposal papers will be selected in accordance with the following criteria:

- a. The substance of the proposed paper or poster must not have been published previously in trade journals or in other professional or technical journals.
- b. The proposed paper or poster should contain significant new knowledge or experience in the oil and gas industry.
- c. Data in the paper proposal must be technically correct.
- d. A title is concise, yet descriptive of the primary content and application of the proposed paper.
- e. Your full paper is required to be edited strictly according to the paper template (download on website: www.ifedc.org)

4. Publication of Papers

Once accepted, your paper will be published in the proceedings by Springer Nature, which will be included by EI. In addition, excellent papers will be recommended to SCI journal.

5. Technology Exhibition

Exhibition at IFEDC 2023 offers you the opportunity to demonstrate your company's advanced technologies and expertise, increase your brand awareness and reinforce its recognition in the China and world market.

To book your exhibit space, advertisement or sponsorship, please email at paper@ifedc.org

6. Registration

- a. IFEDC will provide the attendees with paper publication service for free. All expenses incurred in publishing paper will be covered by IFEDC.
- b. At least ONE author should make presentation or at least attend the conference, otherwise the paper will NOT be published.
- c. IFEDC assumes no obligation for authors' expenses for travel, accommodation, or other incidental expenses incurred for their participation of the event.

V. Contact Information

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IFEDC Organizing Committee

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