

A wireframe globe graphic composed of intersecting lines and dots, positioned to the left of the year '2026'.

# 2026



## International Field Exploration and Development Conference

# Conference Guide

16 - 18 September, 2026  
Harbin China



# Welcome Message

Dear colleagues,

We're thrilled that you've joined us for International Field Exploration and Development Conference 2026 in Harbin, China. IFEDC, as a worldwide, efficient and professional platform to exchange views for the oil and gas industry, significantly promotes the reservoir surveillance, intelligent oilfield, unconventional reservoir development and EOR. IFEDC has become an annual high-qualified technical conference since 2011.

The theme of IFEDC 2026 is 'Advanced Technologies for Driving the Future of the Energy Industry', and it is expected to have 2500+ participants from 30+ countries, 800+ technical presentations and 30+ multi-disciplinary technical sessions from all main oil & gas field companies in China, which are mainly from PetroChina, Sinopec, CNOOC, Shaanxi Yanchang Petroleum (Group) Co. Ltd.

This remarkable gathering of thousands of engineers and professors from all over the world will provide ample opportunity to share our best practices and advances in knowledge and technology.

Welcome to IFEDC 2026. We are delighted to have you with us and hope you find the conference inspiring, engaging, and rewarding.

Sincerely,

IFEDC Organizing Committee

September 2026



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# About the Conference

2026 International Field Exploration & Development Conference (IFEDC), as a worldwide, efficient and professional platform to exchange views for the oil and gas industry, significantly promotes the reservoir surveillance, intelligent oilfield, unconventional reservoir development and EOR in the petroleum industry exploration. IFEDC has become an annual high-qualified academic conference since 2011 and it is expected to 2500+ participants from 30+ countries, 800+ technical presentations and 30+ multi-disciplinary technical sessions from all main oil & gas field companies in China, which are branches from PetroChina, Sinopec, CNOOC, Shaanxi Yanchang Petroleum (Group) Co. Ltd.

IFEDC aims to promote the application and development of new methods and achievements in oil and gas fields. It also strengthens cooperation between China and multilateral countries to achieve mutual benefit and win-win situation. Formal presentations and panel discussions will provide conference participants with a unique opportunity to engage with the leaders and engineers in these fields to explore ideas and solutions.

IFEDC will be held from 16-18 September, 2026 at Harbin Sun Island Garden Hotel, No. 869 Binghua Road, Songbei District, Harbin City, Heilongjiang Province, China

## **Join technical professionals academics specialising in:**

- Petroleum Geology and Comprehensive Exploration
- Deep and Ultra-Deep Petroleum Geological Theory and Key Technologies for Exploration and Development
- Geophysical Technology and Precision Detection
- Logging Technology and Rock Physics Innovation
- Digital Twin and Intelligent Reservoir Characterization
- High Water-Cut Oilfields and Remaining Oil Development
- Complex Structure Wells and Drilling & Completion Technology
- Reservoir Fracturing and New Stimulation Technologies
- Oil & Gas Production Technology and Intelligent Regulation
- Chemical Flooding and Gas Displacement Technology
- Shale (Tight) Oil & Gas Exploration and Development
- Efficient Development Technology for Heavy Oil and Oil Sands
- Dynamic Monitoring and Intelligent Reservoir Management
- Efficient Development of Coalbed Methane (CBM) and Coal Measure Gas
- CCUS and Frontiers of Negative Emission Technologies
- Underground Storage Facilities and Energy Hub Technologies
- Scientific Computing and Applications of Industrial Large Models

# Organization

|              |                                                                                                  |
|--------------|--------------------------------------------------------------------------------------------------|
| Organizer    | CNPC Daqing OILFIELD Limited Company                                                             |
|              | Xi'an Shiyou University                                                                          |
|              | Shaanxi Petroleum Society                                                                        |
| Executor     | Science Research Office, Xi'an Shiyou University                                                 |
|              | College of Petroleum Engineering, Xi'an Shiyou University                                        |
|              | Petroleum Engineering Professional Committee, Shaanxi Petroleum Society                          |
|              | Xi'an Sinoline Petroleum Science & Technology Co., LTD.                                          |
| Co-organizer | Heilongjiang Petroleum Society                                                                   |
|              | Jilin Petroleum Society                                                                          |
|              | Liaoning Petroleum and Petrochemical Society                                                     |
|              | Xinjiang Petroleum Society                                                                       |
|              | Northeast Petroleum University                                                                   |
|              | CNPC Logging (CPL)                                                                               |
|              | CNPC Xibu Drilling Engineering Company Limited                                                   |
|              | CNPC Chuanqing Drilling Engineering Company Limited (CCDC)                                       |
|              | BGP INC., China National Petroleum Corporation                                                   |
|              | CNPC Engineering Technology Research Institute Co., Ltd.                                         |
|              | Research Institute of Petroleum Exploration & Development (RIPED)                                |
|              | PetroChina Changqing Oilfield Company                                                            |
|              | PetroChina Tarim Oilfield Company                                                                |
|              | PetroChina Southwest Oil & Gasfield Company                                                      |
|              | PetroChina Xinjiang Oilfield Company                                                             |
|              | Sinopec Geophysical Technology Research Institute                                                |
|              | Sinopec North China Petroleum Bureau                                                             |
|              | Sinopec Exploration Company                                                                      |
|              | Sinopec Shengli Oilfield                                                                         |
|              | CNOOC (China) Co., Ltd. Tianjin Branch                                                           |
|              | Shaanxi Yanchang Petroleum (Group) Co., Ltd.                                                     |
|              | National Energy R&D Center for Sustainable Development of Continental Sandstone Mature Oilfields |
|              | National Energy R&D Center for Heavy Oil Recovery                                                |
|              | Shaanxi Provincial Key Laboratory of Special Technology Stimulation for Oil and                  |

|                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
|-----------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                 | <p>Gas Fields</p> <p>National Engineering Laboratory for Exploration and Development of Low Permeability Oil and Gas Fields</p> <p>State Key Laboratory of Reservoir Geology and Development Engineering</p> <p>National Engineering Research Center of Oil and Gas Drilling and Completion Technology</p> <p>State Key Laboratory of Multi-Resource Synergistic Green Recovery of Continental Shale Oil</p> <p>Key Laboratory of Exploration and Development of Complex and Difficult-to-Produce Oil and Gas Reservoirs, Ministry of Education</p> <p>Engineering Research Center of Development and Management for Western Low-Ultra Low Permeability</p> <p>Heilongjiang Provincial Key Laboratory of Continental Shale Oil</p> <p>Heilongjiang Provincial Key Laboratory of Reservoir Physics and Seepage Mechanics</p> <p>Heilongjiang Provincial Key Laboratory of Oil and Gas Reservoir Stimulation</p> <p>Shaanxi Cooperative Innovation Center of Unconventional Oil and Gas Exploration and Development</p> <p>Shaanxi Key Laboratory of Well Stability and Fluid &amp; Rock Mechanics in Oil and Gas Reservoirs</p> <p>Xinjiang Key Laboratory of Green and Low-Carbon Heavy Oil Development</p> <p>CNPC Key Laboratory of Conglomerate Oil and Gas Reservoir Exploration and Development</p> |
| Journal Support | <p>Springer Nature</p> <p>Oil Geophysical Prospecting</p> <p>Petroleum Exploration and Development</p> <p>Petroleum Geology &amp; Experiment</p> <p>Lithologic Reservoirs</p> <p>Fault Block Oil &amp; Gas Field</p> <p>Petroleum Drilling Techniques</p> <p>Oil Drilling &amp; Production Technology</p> <p>Drilling &amp; Production Technology</p> <p>Well Logging Technology</p> <p>Petroleum Geology and Recovery Efficiency</p> <p>Petroleum Reservoir Evaluation and Development</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |



|                  |                                                                                                                                                                                                                                                                                                                                                                                             |
|------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                  | <p>Xinjiang Petroleum Geology</p> <p>Journal of Xi'an Shiyou University</p> <p>Unconventional Oil &amp; Gas</p> <p>Xinjiang Oil &amp; Gas</p> <p>Chemical Engineering of Oil and Gas   Chem Eng Oil Gas</p> <p>Drilling Fluid and Completion Fluid   Drill Fluid Compl Fluid</p> <p>Deep Underground Science and Engineering</p> <p>World Petroleum Industry</p> <p>Natural Gas and Oil</p> |
| Media<br>Support | <p>HXAN</p> <p>China Petroleum Daily</p> <p>China Chemical Industry News</p> <p>China Reform Daily</p> <p>Science and Technology Daily</p> <p>Oilsns</p> <p>Sunpetro club</p> <p>Oil mates</p>                                                                                                                                                                                              |

# Schedule of Events

| Date                 | Meeting Room          | Session                                                                                                                  | Co-organizer                                                                         |
|----------------------|-----------------------|--------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|
| 15 September         | Hotel Lobby           | Registration and Materials Collection                                                                                    | Conference Affair Committee                                                          |
| 16 September Morning | Main Auditorium       | Opening Ceremony                                                                                                         | Academic Committee                                                                   |
|                      |                       | Keynote Presentation Sessions                                                                                            | Academic Committee                                                                   |
| 16-18 September      | 1F Songhua River Hall | <b>Session 1</b><br>Petroleum Geology and Comprehensive Exploration                                                      | Peking University;<br>Oil and Gas Resources Survey Center of China Geological Survey |
|                      | 1F Meeting Room 2     | <b>Session 2</b><br>Deep and Ultra-Deep Petroleum Geological Theory and Key Technologies for Exploration and Development | PetroChina Tarim Oilfield Company                                                    |
|                      | 2F Meeting Room 16    | <b>Session 3</b><br>Geophysical Technology and Precision Detection                                                       | Southwest Petroleum University                                                       |
|                      | 1F Meeting Room 4     | <b>Session 4</b><br>Logging Technology and Rock Physics Innovation                                                       | China University of Petroleum, Beijing                                               |
|                      | 1F VIP Room 2         | <b>Session 5</b><br>Digital Twin and Intelligent Reservoir Characterization                                              | Research Institute of Petroleum Exploration and Development (RIPED), CNPC            |
|                      | 2F Meeting Room 6     | <b>Session 6</b><br>High Water-Cut Oilfields and Remaining Oil Development                                               | CNOOC (China) Tianjin Branch                                                         |
|                      | 1F Mudanjiang Hall    | <b>Session 7</b><br>Complex Structure Wells and Drilling & Completion Technology                                         | CNPC Engineering Technology R&D Company Limited                                      |
|                      | 2F Meeting Room 15    | <b>Session 8</b><br>Reservoir Fracturing and New Stimulation Technologies                                                | China University of Petroleum (East China)                                           |
|                      | 2F Meeting Room 9     | <b>Session 9</b><br>Oil & Gas Production Technology and Intelligent Regulation                                           | Oil Production Technology Research Institute, Daqing Oilfield Co., Ltd.              |
|                      | 1F Meeting Room 5     | <b>Session 10</b><br>Chemical Flooding and Gas Displacement Technology                                                   | SINOPEC Shengli Oilfield Company;<br>PetroChina Changqing Oilfield Company           |
|                      | 2F Meeting Room 11    | <b>Session 11</b><br>Shale (Tight) Oil & Gas Exploration and Development                                                 | PetroChina Changqing Oilfield Company                                                |

|                             |                             |                                                                                          |                                                                                                      |
|-----------------------------|-----------------------------|------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------|
| 16-18 September             | 2F Meeting Room 14          | <b>Session 12</b><br>Efficient Development Technology for Heavy Oil and Oil Sands        | PetroChina Xinjiang Oilfield Company;<br>CNOOC (China) Tianjin Branch                                |
|                             | 2F Meeting Room 13          | <b>Session 13</b><br>Dynamic Monitoring and Intelligent Reservoir Management             | PetroChina Qinghai Oilfield Company;<br>Testing Technology Service Branch, Daqing Oilfield Co., Ltd. |
|                             | 2F VIP Room 4               | <b>Session 14</b><br>Efficient Development of Coalbed Methane (CBM) and Coal Measure Gas | China University of Mining and Technology                                                            |
|                             | 2F VIP Room 4               | <b>Session 15</b><br>CCUS and Frontiers of Negative Emission Technologies                | Huaneng Clean Energy Research Institute (CERI)                                                       |
|                             | 2F Meeting Room 17          | <b>Session 16</b><br>Underground Storage Facilities and Energy Hub Technologies          | PetroChina Oil & Gas and New Energy Branch                                                           |
|                             | 2F Meeting Room 17          | <b>Session 17</b><br>Scientific Computing and Applications of Industrial Large Models    | Peking University                                                                                    |
| 16 September<br>18:30~20:30 | Main Auditorium             | Excellent Paper Award Ceremony                                                           | Academic Committee                                                                                   |
| 16-18 September             | Front Porch of Meeting Room | E-poster Seminars for Sharing                                                            | Conference Organizing Committee                                                                      |
| 16-18 September             | Front Porch of Meeting Room | Technical Product Exhibitions                                                            | Conference Organizing Committee                                                                      |

Note:

1. The conference will be held at Harbin Sun Island Garden Hotel.
2. The conference will be held online and offline simultaneously.

## Opening and Keynote Presentation Sessions

|             |                                                                                                                                                                                                                                                           |
|-------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 08:30-08:50 | Host: Zhang Xinyun, Secretary-General, Shaanxi Petroleum Society<br>Welcome speech by Academician Cheng Jiecheng, CNPC Daqing OILFIELD Limited Company, Chinese Academy of Engineering<br>Welcome speech by President Wang Jinfu, Xi'an Shiyou University |
|-------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

## Keynote Presentation Session

|                                                                                                                                                                 |                                                                                                                                                                                                                                                               |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Host: Gao Hui, Xi'an Shiyou University, Professor and Vice-President<br>Li Jiangtao, China National Petroleum Corporation Qinghai Oilfield Branch, Chief Expert |                                                                                                                                                                                                                                                               |
| 08:50-09:15                                                                                                                                                     | Research Progress on the Enrichment Mechanisms of Shale Oil and Gas<br>Guo Xusheng, Chinese Academy of Engineering, Academician                                                                                                                               |
| 09:15-09:35                                                                                                                                                     | DIAM™: Decision Intelligence for “Earth” Asset Management<br>Luc D. Sandjivy, ERM.S Earth Resource Management Services, President                                                                                                                             |
| 09:35-10:00                                                                                                                                                     | ReservoirAgent: Multimodal Multi-Agent AI for Automated Reservoir Management<br>Zhang Dongxiao, Chinese Academy of Engineering, Academician                                                                                                                   |
| 10:00-10:30                                                                                                                                                     | <b>Coffee Break and E-poster Seminars for Sharing</b>                                                                                                                                                                                                         |
| 10:30-10:55                                                                                                                                                     | Complex Mass Transfer Processes Description in Reservoir Engineering of Low-Permeability Reservoirs and Fluid Systems with Active Multiphase Mass Exchange<br>Pavel Grishin, Skolkovo Institute of Science and Technology, Director for Experimental Research |
| 10:55-11:20                                                                                                                                                     | Study on Microscopic Oil Displacement Mechanism of Offshore Dual High and Dual Extra High Oilfields<br>Sun Pengxiao, CNOOC (China) Tianjin Branch, Deputy General Manager & Chief Development Engineer                                                        |
| 11:20-11:40                                                                                                                                                     | Geostatistics for Reliable Portfolio Management: Enhancing Subsurface Uncertainty Quantification and Volumetric Assessment<br>Alessandro Mannini, Seisquare Group, CEO                                                                                        |
| 11:40-12:00                                                                                                                                                     | Annular Top Kill Integrated with Automated MPD and Real-Time Hydraulic Modeling: A Well Control Contingency During Liner Running Operations<br>Jose Sebastian Munoz Restrepo, Halliburton, Business Development Leader Testing And Subsea                     |
| 12:00-14:00                                                                                                                                                     | <b>Buffet Lunch and Break</b>                                                                                                                                                                                                                                 |

# Technical Program

|                                                                                 |                               |
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| <b>Session 1</b>                                                                | <b>Songhua River Hall, 1F</b> |
| <b>Petroleum Geology and Comprehensive Exploration .....</b>                    | <b>9</b>                      |
| <b>Session 2</b>                                                                | <b>Meeting Room 2, 1F</b>     |
| <b>Deep and Ultra-Deep Petroleum Geological Theory and Key Technologies for</b> |                               |
| <b>Exploration and Development.....</b>                                         | <b>17</b>                     |
| <b>Session 3</b>                                                                | <b>Meeting Room, 2F</b>       |
| <b>Geophysical Technology and Precision Detection .....</b>                     | <b>23</b>                     |
| <b>Session 4</b>                                                                | <b>Meeting Room 4, 1F</b>     |
| <b>Logging Technology and Rock Physics Innovation .....</b>                     | <b>30</b>                     |
| <b>Session 5</b>                                                                | <b>VIP Room 2, 1F</b>         |
| <b>Digital Twin and Intelligent Reservoir Characterization .....</b>            | <b>38</b>                     |
| <b>Session 6</b>                                                                | <b>Meeting Room 6, 2F</b>     |
| <b>High Water-Cut Oilfields and Remaining Oil Development .....</b>             | <b>41</b>                     |
| <b>Session 7</b>                                                                | <b>Mudanjiang Hall, 1F</b>    |
| <b>Complex Structure Wells and Drilling &amp; Completion .....</b>              | <b>47</b>                     |
| <b>Session 8</b>                                                                | <b>Meeting Room 15, 2F</b>    |
| <b>Reservoir Fracturing and New Stimulation Technologies .....</b>              | <b>56</b>                     |
| <b>Session 9</b>                                                                | <b>Meeting Room 9, 2F</b>     |
| <b>Oil &amp; Gas Production Technology and Intelligent Regulation.....</b>      | <b>63</b>                     |
| <b>Session 10</b>                                                               | <b>Meeting Room 5, 1F</b>     |
| <b>Chemical Flooding and Gas Displacement Technology .....</b>                  | <b>71</b>                     |
| <b>Session 11</b>                                                               | <b>Meeting Room 11, 2F</b>    |
| <b>Shale (Tight) Oil &amp; Gas Exploration and Development.....</b>             | <b>76</b>                     |
| <b>Session 12</b>                                                               | <b>Meeting Room 14, 2F</b>    |
| <b>Efficient Development Technology for Heavy Oil and Oil Sands .....</b>       | <b>86</b>                     |
| <b>Session 13</b>                                                               | <b>Meeting Room 13, 2F</b>    |
| <b>Dynamic Monitoring and Intelligent Reservoir Management.....</b>             | <b>92</b>                     |
| <b>Session 14</b>                                                               | <b>VIP Room 4, 2F</b>         |
| <b>Efficient Development of Coalbed Methane (CBM) and Coal Measure Gas.....</b> | <b>96</b>                     |
| <b>Session 15</b>                                                               | <b>VIP Room 4, 2F</b>         |
| <b>CCUS and Frontiers of Negative Emission Technologies .....</b>               | <b>101</b>                    |
| <b>Session 16</b>                                                               | <b>Meeting Room 17, 2F</b>    |
| <b>Underground Storage Facilities and Energy Hub Technologies .....</b>         | <b>106</b>                    |
| <b>Session 17</b>                                                               | <b>Meeting Room 17, 2F</b>    |
| <b>Scientific Computing and Applications of Industrial Large Models.....</b>    | <b>111</b>                    |

## Session 1

## Songhua River Hall, 1F

### Petroleum Geology and Comprehensive Exploration

Co-organized by: Peking University, Oil and Gas Resources Survey Center, China Geological Survey

Convener: Zhang Yuanyin, Energy Research Institute, Peking University, Professor-level Senior Engineer

Bai Zhongkai, Oil and Gas Resources Survey Center, China Geological Survey, Professor-level

Senior Engineer

Date: 16-18 September, 2026

| 16 September 2026 (p.m.)                                                                                                                                                                                                                                                                                                                     |                                                                                                                                                                                                                                                                                                |
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| <b>Host:</b><br><b>Bai Zhongkai, Oil and Gas Resources Survey Center, China Geological Survey, Professor-level Senior Engineer, Conference Review Experts, the Convener of This Venue</b><br><b>Wei Yuanjiang, Research Institute of Petroleum Exploration &amp; Development, Professor-level Senior Engineer, Conference Review Experts</b> |                                                                                                                                                                                                                                                                                                |
| 14:00-14:20                                                                                                                                                                                                                                                                                                                                  | IFEDC202623005<br>Pre-Stack Elastic Parameter Inversion Using Mixed-Norm Regularization<br>Zhang Yuanyin, Ordos Research Institute of Energy, Peking University, Professor-Level Senior Engineer                                                                                               |
| 14:20-14:40                                                                                                                                                                                                                                                                                                                                  | Invited Presentation<br>Advances and Achievements in Seismic Exploration Technology for Carbonate Reservoirs in the Tarim Basin<br>Kong Dezheng, BGP INC., China National Petroleum Corporation, Senior Engineer                                                                               |
| 14:40-15:00                                                                                                                                                                                                                                                                                                                                  | IFEDC202622413<br>Suppression of Complex Interlayer Multiple Waves on Land Using the Marchenko Method Based on Sparse Constrained Inversion<br>Zhang Yuheng, Jilin University, Associate Professor                                                                                             |
| 15:00-15:15                                                                                                                                                                                                                                                                                                                                  | IFEDC202621826<br>Optimization of Tomographic Inversion Parameters Based on Full-Permutation Long-Offset Data: A Case Study of the Monan 2D Survey in the Junggar Basin<br>Wang Liye, Xinjiang Geophysical Exploration Branch, BGP Inc., China National Petroleum Corporation, Senior Engineer |

|             |                                                                                                                                                                                                                                                                                                                  |
|-------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 15:15-15:30 | <p>IFEDC202622683</p> <p>Optimal Layout Method of Surface Control Points Constrained by In-phase Stacking Error</p> <p>Ma Lixin, Qinghai Geophysical Exploration Branch of BGP Geoexploration Co., Ltd., CNPC</p>                                                                                                |
| 15:30-15:45 | <p>IFEDC202621567</p> <p>Study on Paleokarst Characteristics and Reservoir Development Constraints of the KT-II Carbonate Rocks in the Southern T Block, Eastern Margin of the Pre-Caspian Basin</p> <p>Zhuang Wei, CNPC Logging International Company</p>                                                       |
| 15:45-16:00 | <p>IFEDC202621152</p> <p>Mechanism and Model of Differential Reservoir Control by Thrust Faults in the Eastern Margin of the Caspian Basin</p> <p>Li Yibao, Dagang Branch, Geophysical Research Institute of BGP Inc.,CNPC, Senior Engineer</p>                                                                  |
| 16:00-16:30 | <p><b>Coffee Break and E-poster Seminars for Sharing</b></p>                                                                                                                                                                                                                                                     |
| 16:30-16:50 | <p>Invited Presentation</p> <p>Systematic Distribution of Diverse Reservoir Types and New Exploration Directions in the Coal-Bearing Petroleum System of the Tianshan Fold-and-Thrust Belt</p> <p>Zhang Ronghu, Research Institute of Petroleum Exploration and Development, Professor-Level Senior Engineer</p> |
| 16:50-17:10 | <p>IFEDC202621763</p> <p>Recent Exploration Progress in Deep-Ultra-Deep Carbonate Rock Domains of the Tarim Basin</p> <p>Geng Feng, Sinopec Northwest Oilfield Company, Vice Dean/Researcher</p>                                                                                                                 |
| 17:10-17:30 | <p>IFEDC202622839</p> <p>New Insights into Lithofacies Paleogeography of the Xiaoerbulake Formation in the Central-Northern Tarim Region and Their Geological Significance</p> <p>Zhu Mao, PetroChina Hangzhou Research Institute of Geology, Senior Engineer</p>                                                |
| 17:30-17:45 | <p>IFEDC202622518</p> <p>Fault Development Characteristics and Petroleum Geological Significance of the Central-Western Maigaiti Slope, Southwestern Tarim Basin</p> <p>Gulifeire Tulujun, SINOPEC Geophysical Research Institute Co.,Ltd.</p>                                                                   |

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| 17:45-18:00                                                                                                                                                                                                                                                                                                                             | <p>IFEDC202622435</p> <p>Analysis of Petroleum Systems and Exploration Prospects in the Northeast Java Basin, Indonesia</p> <p>Zhang Xuefeng, CNOOC EnerTech--Drilling &amp; Production Co., Ltd.</p>                                                                                                                                                            |
| 18:30-20:30                                                                                                                                                                                                                                                                                                                             | <p><b>Excellent Paper Award Ceremony (Large Conference Hall, 1F )</b></p>                                                                                                                                                                                                                                                                                        |
| <p><b>17 September 2026 (a.m.)</b></p>                                                                                                                                                                                                                                                                                                  |                                                                                                                                                                                                                                                                                                                                                                  |
| <p><b>Host:</b></p> <p><b>Zhang Yuanyin, Energy Research Institute, Peking University, Professor-level Senior Engineer, Conference Review Experts, the Convener of This Venue</b></p> <p><b>Chen Yefei, Research Institute of Petroleum Exploration and Development, Professor-Level Senior Engineer, Conference Review Experts</b></p> |                                                                                                                                                                                                                                                                                                                                                                  |
| 08:30-08:50                                                                                                                                                                                                                                                                                                                             | <p>Invited Presentation</p> <p>Progress in Public-Welfare Oil and Gas Geological Survey during the 14th Five-Year Plan and Outlook for the 15th Five-Year Plan</p> <p>Bai Zhongkai, Oil and Gas Resources Survey Center, Professor-Level Senior Engineer</p>                                                                                                     |
| 08:50-09:10                                                                                                                                                                                                                                                                                                                             | <p>IFEDC202622271</p> <p>Fault Development Characteristics and Sand-Controlling Mechanism in the Southern Western Slope Zone of the Xihu Sag</p> <p>Xu Xinyu, SINOPEC Geophysical Research Institute CO.,Ltd., Postdoctoral</p>                                                                                                                                  |
| 09:10-09:30                                                                                                                                                                                                                                                                                                                             | <p>IFEDC202622428</p> <p>Sedimentary Characteristics and Model of Shelf Deposition Under the Tectonic Setting of "Two Depressions Sandwiching One Uplift" — A Case Study of the Middle Jurassic in S Gas Field, Northern West Siberian Basin</p> <p>Chen Yefei, Research Institute of Petroleum Exploration and Development, Professor-Level Senior Engineer</p> |
| 09:30-09:45                                                                                                                                                                                                                                                                                                                             | <p>IFEDC2026219288</p> <p>Storage and Permeability Characteristics and Influencing Factors of Weakly Lithified and Weakly Consolidated Sandy Sedimentary Reservoirs of Lingshui 36-1 Area, Qiongdongnan Basin</p> <p>Dong Keliang, China University of Petroleum (Beijing)</p>                                                                                   |

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| 09:45-10:00                                                                                                                                                                                                                                                                 | <p>IFEDC202622907</p> <p>Control of Strike-Slip Fault Combinations on Hydrocarbon Migration and Accumulation in the Xintan Area of the Bohai Bay Basin, Tan-Lu Fault Zone</p> <p>Xie Zongkui, Shengli Oilfield Branch Company, Principal Geologist</p> |
| 10:00-10:30                                                                                                                                                                                                                                                                 | <p><b>Coffee Break and E-poster Seminars for Sharing</b></p>                                                                                                                                                                                           |
| 10:30-10:50                                                                                                                                                                                                                                                                 | <p>IFEDC202622156</p> <p>A Seismic Vibrator for Complex Surface Exploration</p> <p>Ma Hongwei, The R&amp;D of Geophysical Vibrator</p>                                                                                                                 |
| 10:50-11:10                                                                                                                                                                                                                                                                 | <p>IFEDC202621606</p> <p>Buoyancy-Driven Hydrocarbon Accumulation Depth for Myanmar Salin Sub-Basin</p> <p>Nyan Tun, Myanma Oil and Gas Enterprise, Fomer Managing Director of MOGE</p>                                                                |
| 11:10-11:30                                                                                                                                                                                                                                                                 | <p>IFEDC202623014</p> <p>Study on Laws of Component Transfer and parameter optimization for CO<sub>2</sub> Flooding in Low-Permeability Reservoirs</p> <p>CuiChuanzhi, China University of Petroleum (East China), Professor</p>                       |
| 11:30-11:45                                                                                                                                                                                                                                                                 | <p>IFEDC202620959</p> <p>The Sedimentary Microfacies Characteristics and Geological Significance of the Carboniferous Bachu Formation in the Eastern Tarim Basin</p> <p>Cui Hanchi, Yangtze University</p>                                             |
| 11:45-12:00                                                                                                                                                                                                                                                                 | <p>IFEDC202622031</p> <p>Application of Digital Intelligence in TOC Prediction in Low-Exploration Areas</p> <p>Xu Wenjing, Research Institute of Exploration and Development, PetroChina Dagang Oilfield</p>                                           |
| 12:00-14:00                                                                                                                                                                                                                                                                 | <p><b>Buffet Lunch and Break</b></p>                                                                                                                                                                                                                   |
| <p><b>17 September 2026 (p.m.)</b></p>                                                                                                                                                                                                                                      |                                                                                                                                                                                                                                                        |
| <p><b>Host:</b></p> <p><b>Zhou Jibing, No. 9 Brigade, Geological Bureau, Xinjiang Uyghur Autonomous Region, Professor-level Senior Engineer</b></p> <p><b>Han Jianfa, PetroChina Tarim Oilfield Company, Professor-Level Senior Engineer, Conference Review Experts</b></p> |                                                                                                                                                                                                                                                        |

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| 14:00-14:15 | <p>Invited Presentation</p> <p>Innovations in Petroleum Geological Theory and Breakthroughs in Oil and Gas Exploration around the Bogda Mountains</p> <p>Zhou Jibing, No. 9 Brigade, Geological Bureau, Xinjiang Uyghur Autonomous Region, Professor-level Senior Engineer</p>                                                      |
| 14:15-14:30 | <p>Invited Presentation</p> <p>Resource Potential for Oil and Gas Exploration in New Exploration Areas of the Tarim Basin</p> <p>Cheng Minghua, Bureau of Geophysical Prospecting INC., Senior Engineer</p>                                                                                                                         |
| 14:30-14:45 | <p>IFEDC202622696</p> <p>Study on the Occurrence State of Uranium in Sandstone-Type Uranium Deposits of the Neogene Shawan Formation in the Chepaizi Area, Western Junggar Basin</p> <p>Ji Tianxiao, Shengli Oilfield Company, SINOPEC, Postdoctoral</p>                                                                            |
| 14:45-15:00 | <p>IFEDC202621552</p> <p>A New Method of Microbial Oil and Gas Detection and Its Application in Oil and Gas Exploration in New Area</p> <p>Hao Chun, Advanced Environmental &amp; Energy Technology, Professor-Level Senior Engineer</p>                                                                                            |
| 15:00-15:15 | <p>IFEDC202621428</p> <p>Characteristics, Genesis, and Development Insights of Shale Condensate Gas Reservoir in the Lianggaoshan Formation, Northeast Sichuan</p> <p>Huang Kexiang, Exploration and Development Research Institute of Daqing Oilfield Company, PetroChina</p>                                                      |
| 15:15-15:30 | <p>IFEDC202622977</p> <p>The Structural Pattern and Sedimentary Filling Characteristics of Eocene in the Panyu Low Uplift, Pearl River Mouth Basin</p> <p>Xu Xinming, CNOOC China Limited, Shenzhen Branch</p>                                                                                                                      |
| 15:30-15:45 | <p>IFEDC202622985</p> <p>Characteristics and Potential Analysis of Permian Source Rocks in the Yining Sag, Yili Basin</p> <p>Sun Xiangcan, Oil &amp; Gas Survey, China Geological Survey, Senior Engineer</p>                                                                                                                       |
| 15:45-16:00 | <p>IFEDC202622956</p> <p>Sedimentary Response and Lithologic Hydrocarbon Exploration Potential under the Control of Provenance Transition and Strike-Slip Activity in the Third Member of the Dongying Formation, Southern Liaozhong Sub-sag</p> <p>Ji Xinyuan, China National Offshore Oil Corporation Limited, Tianjin Branch</p> |

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| 16:00-16:30 | <b>Coffee Break and E-poster Seminars for Sharing</b>                                                                                                                                                                                                                                                      |
| 16:30-16:45 | <p>IFEDC202622275</p> <p>Research and Application of Quantitative Karst Paleogeomorphology Methods in the Mid-to-Late Stable Production Stage of Jingbian Gas Field, Ordos Basin</p> <p>Liu Haifeng, Changqing Oilfield Company, PetroChina, Senior Engineer</p>                                           |
| 16:45-17:00 | <p>IFEDC202621322</p> <p>Recent Developments in Oil and Gas Exploration in the Liaohe Oilfield</p> <p>Wang Jialin, petrochina liaohe oilfield company, Senior Engineer</p>                                                                                                                                 |
| 17:00-17:15 | <p>IFEDC202622551</p> <p>Sedimentary Characteristics of Beach and Bar-Salt Lake of the Fourth Member of Shahejie Formation in Lijin Area, Dongying Depression</p> <p>Zhang Qian, Exploration and Development Research Institute of Shengli Oilfield Branch Company Ltd., SINOPEC, Associate Researcher</p> |
| 17:15-17:30 | <p>IFEDC202621840</p> <p>Pore characteristics and influencing factors of deep shale reservoirs in southeastern Sichuan Basin</p> <p>Liu Xingzheng, School of Geosciences, China University of Petroleum (East China)</p>                                                                                   |
| 17:30-17:45 | <p>IFEDC202622541</p> <p>Influencing Factors of Hydrocarbon Migration and Adjustment at the Edge of a Stable Cratonic Basin: Implications from Fluid Inclusions, Quantitative Fluorescence Techniques, and Geochemical Tracing</p> <p>Yang Zhengqi, Department of Geology, Northwest University</p>        |
| 17:45-18:00 | <p>IFEDC202622607</p> <p>Research and Application of Artificial Intelligence Fault Interpretation Technology in New Depression Complex Structural Areas</p> <p>Ren Lijuan, Research Institute, Hainan Branch, CNOOC (China) Co., Ltd.</p>                                                                  |
| 18:30-20:30 | <b>Buffet Dinner</b>                                                                                                                                                                                                                                                                                       |

| 18 September 2026 (a.m.)                                                                                                                                                                                                                               |                                                                                                                                                                                                                                                                       |
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| <b>Host:</b><br><b>Zhang Ronghu, Research Institute of Petroleum Exploration &amp; Development, Professor-level Senior Engineer</b><br><b>Liu Yalei, Oil and Gas Resources Survey Center, China Geological Survey, Professor-Level Senior Engineer</b> |                                                                                                                                                                                                                                                                       |
| 08:30-08:50                                                                                                                                                                                                                                            | IFEDC202622955<br>Hydrocarbon Accumulation and Exploration Directions in the Deep Strata and Piedmont Zones of Large Superimposed Basins in Western China<br>Liu Yalei, Oil and Gas Resources Survey Center, China Geological Survey, Professor-Level Senior Engineer |
| 08:50-09:10                                                                                                                                                                                                                                            | IFEDC202621672<br>Study on Rock Core Image Label Segmentation Method of SAM3 Based on LoRA Fine-Tuning<br>Yang Shifu, Research Institute of Petroleum Exploration & Development-Northwest (NWGI), PetroChina                                                          |
| 09:10-09:30                                                                                                                                                                                                                                            | IFEDC202620563<br>Structural Style and Trap-Forming Role of Thick Mudstone in the Cretaceous Shushanhe Formation, Kuqa Depression<br>Mei Yongxu, China University of Petroleum-Beijing at Karamay                                                                     |
| 09:30-09:45                                                                                                                                                                                                                                            | IFEDC202622646<br>Sedimentary System Evolution in the Foz Do Amazonas Basin under Regional Tectonic Control<br>Wang Xiao, PetroChina Hangzhou Research Institute of Geology                                                                                           |
| 09:45-10:00                                                                                                                                                                                                                                            | IFEDC202622927<br>Initiation of the Altyn Tagh Fault and the Tectonic Valve Mechanism in the Early-Middle Jurassic Source-to-Sink System: Insights from the Southeastern Tarim Basin<br>Liu Yingjie, China Geological Survey                                          |
| 10:00-10:30                                                                                                                                                                                                                                            | <b>Coffee Break and E-poster Seminars for Sharing</b>                                                                                                                                                                                                                 |

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| 10:30-10:50 | <p>IFEDC202623060</p> <p>Lithofacies Types and Reservoir-controlling Mechanism of Coal Measure Reservoirs in the Longtan Formation, Western Chongqing</p> <p>LuoJun, Changqing Oilfield Company, CNPC</p>                                                                                                                                              |
| 10:50-11:10 | <p>IFEDC202621812</p> <p>Characteristics and Controlling Factors of Callovian-Oxfordian Platform and Gentle Slope Reservoirs in the Central-Western Part of Right Bank of Amu Darya</p> <p>Wang Qiang, Geological Exploration and Development Research Institute, CNPC</p> <p>Chuanqing Drilling Engineering Company Limited, First-Class Engineer</p> |
| 11:10-11:30 | <p>IFEDC202622838</p> <p>Reservoir Connectivity Patterns in Deepwater Mud-Rich Field with Complex Fault Networks in West Africa</p> <p>Lv Wenrui, Cnooc International</p>                                                                                                                                                                              |
| 11:30-11:45 | <p>IFEDC202622577</p> <p>Evaluation of Petroleum Geological Characteristics and Undiscovered Resources along the Southwestern Coast of Africa</p> <p>Bian Haiguang, Research Institute of Petroleum Exploration and Development, CNPC, Senior Engineer</p>                                                                                             |
| 11:45-12:00 | <p>IFEDC202623065</p> <p>Identification of Hydrocarbon Migration Pathways by Integrating Organic and Inorganic Geochemistry and Its Application on the Southern Slope of the Dongying Sag</p> <p>Niu Zicheng, Shengli Oil field company, Sinopec, Senior Engineer</p>                                                                                  |
| 12:00-14:00 | <p><b>Buffet Lunch and Break</b></p>                                                                                                                                                                                                                                                                                                                   |

## Session 2

## Meeting Room 2, 1F

### Deep and Ultra-Deep Petroleum Geological Theory and Key Technologies for Exploration and Development

C-organized by: PetroChina Tarim Oilfield Company

Convener: Zhang Yintao, PetroChina Tarim Oilfield Company, Senior Expert

Date: 16-18 September, 2026

| 16 September 2026 (p.m.)                                                                                                                                                                               |                                                                                                                                                                                                                                                                 |
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| <b>Host:</b><br><b>Zhang Yintao, PetroChina Tarim Oilfield Company, Senior Expert, the Convener of This Venue</b><br><b>Bi Jianjun, China University of Mining and Technology (Beijing), Professor</b> |                                                                                                                                                                                                                                                                 |
| 14:00-14:25                                                                                                                                                                                            | Invited Presentation<br>Sweet-Spot Prediction and Traceability Exploration Technology for Ultra Deep Reservoirs<br>Bi Jianjun, China University of Mining and Technology (Beijing), Professor                                                                   |
| 14:25-14:50                                                                                                                                                                                            | Invited Presentation<br>Fine Description Methods and Prospects for Ultra-Deep Heterogeneous Oil and Gas Reservoirs<br>Li Xiangwen, Bureau of Geophysical Prospecting INC., Senior Engineer                                                                      |
| 14:50-15:15                                                                                                                                                                                            | Invited Presentation<br>Differential Characterization Technology for Internal Structure and Connectivity Paths of Ultra Deep Fault Controlled Hydrocarbon Reservoirs<br>Chang Shaoying, China Petroleum Hangzhou Geological Research Institute, Senior Engineer |
| 15:15-15:30                                                                                                                                                                                            | IFEDC202621733<br>Study on the Sealing Failure Behavior of Cement Sheath under Cyclic Loading<br>Wang Peng, PetroChina Tarim Oilfield Company, Senior Engineer                                                                                                  |
| 15:30-15:45                                                                                                                                                                                            | IFEDC202621685<br>Research on Water Invasion Paths and Synergetic Water Control Strategies for Fractured Edge-Water Gas Reservoirs: A Case Study of the KS2 Gas Reservoir<br>Zhang Aolin, Southwest Petroleum University                                        |

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| 15:45-16:00 | <p>IFEDC202620774</p> <p>A Study on the Main Controlling Factors and Development Patterns of Pore-Vuggy Karst Reservoirs in the Lower Permian Maokou Formation, Southern Sichuan</p> <p>Yao Qianying, PetroChina Hangzhou Research Institute of Geology (HIPG), Senior Engineer</p>                                                  |
| 16:00-16:30 | <p><b>Coffee Break and E-poster Seminars for Sharing</b></p>                                                                                                                                                                                                                                                                         |
| 16:30-16:50 | <p>Invited Presentation</p> <p>Three-Dimensional Hydrocarbon Accumulation Process of Multi-Series Strata in Azhong Area, Tarim Basin</p> <p>Ping Hongwei, China University of Geosciences (Wuhan), Professor and Doctoral supervisor</p>                                                                                             |
| 16:50-17:10 | <p>IFEDC2026224596</p> <p>Research Progress on the Deep Marine Carbonate Rock Depositional Evolution in the Cratonic Basins of China</p> <p>Zhou Jingao, Petrochina Hangzhou institute of geology, Professor-Level Senior Engineer</p>                                                                                               |
| 17:10-17:30 | <p>IFEDC202622478</p> <p>Types and Sedimentary Characteristics of Bioherms in Liuhua Oilfield, Pearl River Mouth Basin, South China Sea</p> <p>Liu Yu, CNOOC China Limited, Shenzhen Branch, Senior Engineer</p>                                                                                                                     |
| 17:30-17:45 | <p>IFEDC202621727</p> <p>Hydrogeochemical Characteristics of Formation Water in Fracture-Cavity Reservoirs of the Halahatang Oilfield and Implications for Hydrocarbon Accumulation and Development</p> <p>Yang Haoran, Research Institute of Exploration and Development, PetroChina Tarim Oilfield Company</p>                     |
| 17:45-18:00 | <p>IFEDC202622567</p> <p>Fluid Phase Behavior Characterization and Evolution Mechanism of Ultra-High Pressure Near-Critical Gas Reservoirs in Deepwater Pre-salt Carbonate Rocks Controlled by Gravity Segregation</p> <p>Xu Runzi, China Petroleum Exploration and Development Research Institute Hangzhou Institute of Geology</p> |

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| 18:30-20:30                                                                                                                                                                                               | <b>Excellent Paper Award Ceremony (Large Conference Hall, 1F )</b>                                                                                                                                                                                                                 |
| <b>17 September 2026 (a.m.)</b>                                                                                                                                                                           |                                                                                                                                                                                                                                                                                    |
| <b>Host:</b><br><b>Ping Hongwei, China University of Geosciences, Wuhan, Professor, Doctoral Supervisor</b><br><b>Zhang Gulan, Southwest Petroleum University, Level-2 Professor, Doctoral Supervisor</b> |                                                                                                                                                                                                                                                                                    |
| 08:30-08:50                                                                                                                                                                                               | Invited Presentation<br>Effective Frequency Band-Driven High-Resolution Processing Method and Its Application for Deep Seismic Data<br>Zhang Gulan, Southwest Petroleum University, Level-2 Professor, Doctoral Supervisor                                                         |
| 08:50-09:10                                                                                                                                                                                               | Invited Presentation<br>High-Quality Prediction Technology for Ultra-Deep Carbonate Rocks<br>Huang Handong, China University of Petroleum (Beijing), Professor, Doctoral Supervisor                                                                                                |
| 09:10-09:30                                                                                                                                                                                               | IFEDC202622050<br>Key Technologies and Practices of Seismic Acquisition and Processing for Fractured Deep Buried Hills in the Bohai Sea<br>Wang Jianli, Tianjin Branch of CNOOC Ltd.                                                                                               |
| 09:30-09:45                                                                                                                                                                                               | IFEDC202621531<br>Research on Multi-stage Throttling Process of Supercritical Fluid at Oil and Gas Wellheads<br>Liu Yuxin, Oil Production Technology Research Institute of PetroChina Xinjiang Oilfield                                                                            |
| 09:45-10:00                                                                                                                                                                                               | IFEDC202621565<br>Instability Mechanism of Permian Bauxitic Mudstone in Northwestern Sichuan Basin and Technical Countermeasures of High-Performance Water-Based Drilling Fluid<br>Wang Jiali, PetroChina Southwest Oil & Gasfield Company Oil & Gas Technology Research Institute |
| 10:00-10:30                                                                                                                                                                                               | <b>Coffee Break and E-poster Seminars for Sharing</b>                                                                                                                                                                                                                              |

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| 10:30-10:50                                                                                                                                                                                                          | <p>Invited Presentation</p> <p>Configuration Mode and Geological Modeling of Fault-Controlled Reservoir Bodies in Ultra-Deep Formations of Tarim Basin</p> <p>Zhang Guoyin, China University of Petroleum (East China), Associate Professor</p>     |
| 10:50-11:10                                                                                                                                                                                                          | <p>IFEDC202622825</p> <p>Genesis of Thermal Fluids in Deep Tight Clastic Reservoirs Offshore</p> <p>Zang Chunyan, CNOOC Research and Experiment Center, Senior Engineer</p>                                                                         |
| 11:10-11:30                                                                                                                                                                                                          | <p>IFEDC202622232</p> <p>Hydrocarbon Accumulation Conditions and Accumulation Model of the Second Member of Kongdian Formation in the Cangdong Deep Sag, Bohai Bay Basin</p> <p>Chen Jiaxu, PetroChina Dagang Oilfield Company, Senior Engineer</p> |
| 11:30-11:45                                                                                                                                                                                                          | <p>IFEDC202622093</p> <p>Optimization and Slimming of Ultra-deep Wellbore Structure on The Northern Slope of Tianshan Mountains</p> <p>Li Ping, CNPC Engineering Technology R&amp;D Company Limited, Senior Engineer</p>                            |
| 11:45-12:00                                                                                                                                                                                                          | <p>IFEDC202622374</p> <p>A Pre-Stack Gather Reconstruction Method for Ultra-Deep Reservoirs Based on AVO Theory</p> <p>Xiong Lei, Sinopec Geophysical Research Institute Co., Ltd.</p>                                                              |
| 12:00-14:00                                                                                                                                                                                                          | <p><b>Buffet Lunch and Break</b></p>                                                                                                                                                                                                                |
| <p><b>17 September 2026 (p.m.)</b></p>                                                                                                                                                                               |                                                                                                                                                                                                                                                     |
| <p><b>Host:</b></p> <p><b>Huang Handong, China University of Petroleum (Beijing), Professor, Doctoral Supervisor</b></p> <p><b>Zhang Guoyin, China University of Petroleum (East China), Associate Professor</b></p> |                                                                                                                                                                                                                                                     |
| 14:00-14:20                                                                                                                                                                                                          | <p>IFEDC202621827</p> <p>Deep Learning for Porosity Prediction in Fault-Controlled Fractured-Vuggy Reservoirs: Method and Application</p> <p>Wang Mengxiu, PetroChina Hangzhou Research Institute of Geology</p>                                    |
| 14:20-14:40                                                                                                                                                                                                          | <p>IFEDC202622618</p> <p>Numerical Simulation of Resistivity Response and Evaluation Method of Saturation Index n for Fractured-vuggy Dolomite Reservoirs</p> <p>Yi Xinyi, Xi'an Shiyou University, Associate Professor</p>                         |

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| 14:40-15:00 | <p>IFEDC202621958</p> <p>Seismic Characterization of Fluvial-Shallow Water Delta Deposits in Deep Offshore Gas Reservoirs</p> <p>Huang Derong, Research Institute of Petroleum Exploration and Development</p>                                                                                                                              |
| 15:00-15:20 | <p>IFEDC202621203</p> <p>Key Technologies and Application Practice for Full-Life-Cycle Development of Deep, Medium-to-High Permeability Sandstone Reservoirs in Bayan Oilfield</p> <p>Wang Shengliang, PetroChina Huabei Oilfield Company, Senior Engineer</p>                                                                              |
| 15:20-15:40 | <p>IFEDC202621838</p> <p>Differential Logging Evaluation Method and Application for Fault-Controlled Carbonate Reservoirs in Fuman Oilfield</p> <p>Sun Kang, PetroChina Tarim Oilfield Company</p>                                                                                                                                          |
| 15:40-16:00 | <p>IFEDC202622034</p> <p>Wellbore Stability Evaluation for Fractured Carbonate Formations in Luzhou Block, Southern Sichuan: Incorporating Dynamic Tectonic Strain and Fracture Properties</p> <p>Wang Zhihui, Chengdu University of Technology</p>                                                                                         |
| 16:00-16:30 | <p><b>Coffee Break and E-poster Seminars for Sharing</b></p>                                                                                                                                                                                                                                                                                |
| 16:30-16:50 | <p>IFEDC202622218</p> <p>The Genesis Model of Argillaceous Fillings in the Yijianfang Formation in the Tabei Area of the Tarim Basin and its Exploration Implications</p> <p>Xiong Chang, PetroChina Tarim Oilfield Company, Deputy Manager of the Basin Area Exploration Project of the Exploration and Development Research Institute</p> |
| 16:50-17:10 | <p>IFEDC202620740</p> <p>Dynamic Characteristics and Development Strategies for Ultra-Deep, Ultra-High Pressure Fractured Tight Sandstone Reservoirs</p> <p>Yang Min, PetroChina Tarim Oilfield Company, Senior Engineer</p>                                                                                                                |
| 17:10-17:30 | <p>IFEDC202620671</p> <p>Provenance analysis and geological significance of sandstone reservoir in Wen 5 section of Lufeng sag</p> <p>Yang Jiao, CNOOC China Limited, Shenzhen Branch, Principal Engineer</p>                                                                                                                               |

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| 17:30-17:45 | <p>IFEDC202623010</p> <p>Preparation of Silica-Encapsulated Inositol Phase Change Material and Analytical Modeling of Wellbore Temperature Field</p> <p>Li Lizong, China University of Petroleum (East China)</p> |
| 17:45-18:00 | <p>IFEDC202621194</p> <p>Synthesis and Application of High-Strength Solidified Lost Circulation Agent</p> <p>Zhou Shuangjun, China University of Petroleum (East China)</p>                                       |
| 18:30-20:30 | <p><b>Buffet Dinner</b></p>                                                                                                                                                                                       |



## Session 3

## Meeting Room 16, 2F

### Geophysical Technology and Precision Detection

Co-organized by: Southwest Petroleum University

Convener: Huang Xuri, Southwest Petroleum University, Professor & Academic Dean

Zhao Haibo, Daqing Oilfield Exploration and Development Institute, Vice Dean

Shi Yin, Harbin University of Science and Technology, Vice-President

Date: 16-17 September, 2026

| 16 September 2026 (p.m.)                                                                                                                                                                  |                                                                                                                                                                                     |
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| <b>Host:</b><br><b>Huang Xuri, Southwest Petroleum University, Professor &amp; Academic Dean, the Convener of This Venue</b><br><b>Chen Wenchao, Xi'an Jiaotong University, Professor</b> |                                                                                                                                                                                     |
| 14:00-14:20                                                                                                                                                                               | Invited Presentation<br>Research on Fluid Identification Technology Based on Seismic-Electromagnetic Integration<br>Meng Chao, Hunan Geosun Hi-technology Co., Chairman's Assistant |
| 14:20-14:40                                                                                                                                                                               | Invited Presentation<br>Practice and Reflections on Intelligent Processing of Seismic Exploration Data<br>Chen Wenchao, Xi'an Jiaotong University, Professor                        |
| 14:40-15:00                                                                                                                                                                               | Invited Presentation<br>Research Progress on Full-Waveform Inversion of Acoustoelectric Well Logging<br>Guan Wei, Harbin Institute of Technology, Professor                         |
| 15:00-15:15                                                                                                                                                                               | IFEDC202621866<br>Qinghai-Tibet Plateau Well-Developed Permafrost Poor Homogeneity Strong Folding Low S/N<br>Han Zhixiong, BGP, CNPC, Senior Engineer                               |

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| 15:15-15:30 | <p>IFEDC202622619</p> <p>Geophysically Informed Network for Footprint Attenuation in Sparse Seismic Velocity Inversion</p> <p>Wang Shenghou, Geophysical Research Institute, China Oilfield Services Limited, Senior Engineer</p>       |
| 15:30-15:40 | <p>IFEDC202622486</p> <p>Application of Imaging-Domain Least-Squares Migration Technology in High-Resolution Seismic Data Processing of Eastern China</p> <p>Geng Hui, BGP Research Institute, China National Petroleum Corporation</p> |
| 15:40-15:50 | <p>IFEDC202623081</p> <p>SSRCD: A Seismic Super-Resolution Cold Diffusion Model for Seismic Data Resolution Enhancement</p> <p>Cao Zhixun, Geophysical Research Institute, China Oilfield Services Ltd.</p>                             |
| 15:50-16:00 | <p>IFEDC202621642</p> <p>Research on Elastic Wavefield Separation and Seismic Illumination Analysis Methods in VTI Media</p> <p>Guo Xiaoling, BGP, CNPC</p>                                                                             |
| 16:00-16:30 | <p><b>Coffee Break and E-poster Seminars for Sharing</b></p>                                                                                                                                                                            |
| 16:30-16:45 | <p>Invited Presentation</p> <p>Research on Novel Methods for Seismic Imaging in Foothill Belts</p> <p>Chen Xiaochun, Southwest Petroleum University, Lecturer</p>                                                                       |
| 16:45-17:00 | <p>IFEDC202622543</p> <p>Intelligent 3D Seismic Fault Recognition Method Based on NFA-Net</p> <p>Bao Xiangsheng, Guangdong University of Petrochemical Technology, Professor</p>                                                        |
| 17:00-17:15 | <p>IFEDC202622268</p> <p>Technology for Identifying Deep Strike-Slip Faults Based on OVT Domain Seismic Data</p> <p>Ban Li, Exploration and Development Research Institute of Sinopec Shengli Oilfield, Associate Researcher</p>        |
| 17:15-17:30 | <p>IFEDC202622350</p> <p>Research on Multi-scale Fracture Recognition Based on Attribute Fusion of Isolation Forest Algorithm</p> <p>Liang Jiali, Sinopec Geophysical Research Institute Co., Ltd.</p>                                  |

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| 17:30-17:45                                                                                                                                                                                                                                                     | <p>IFEDC202621396</p> <p>Comparative Study of Optimal Transport and L2 Objective Functions in Multiparameter Full Waveform Inversion Based on the Generalized Wave Equation</p> <p>Zhao Wuju, Beijing University of Chemical Technology</p>             |
| 17:45-18:00                                                                                                                                                                                                                                                     | <p>IFEDC202621555</p> <p>Low-Order Fault Detection in Ultra-Deep Carbonate Reservoirs Based on Sample-Optimized Deep Learning</p> <p>Liang Shuyuan, Sinopec Geophysical Research Institute Co., Ltd.</p>                                                |
| 18:30-20:30                                                                                                                                                                                                                                                     | <p><b>Excellent Paper Award Ceremony (Large Conference Hall, 1F )</b></p>                                                                                                                                                                               |
| <p><b>17 September 2026 (a.m.)</b></p>                                                                                                                                                                                                                          |                                                                                                                                                                                                                                                         |
| <p><b>Host:</b></p> <p><b>Zhao Haibo, Daqing Oilfield Exploration and Development Institute, Vice Dean, the Convener of This Venue</b></p> <p><b>Sun Junhe, Bureau of Geophysical Prospecting INC., China National Petroleum Corporation, Senior Expert</b></p> |                                                                                                                                                                                                                                                         |
| 08:30-08:50                                                                                                                                                                                                                                                     | <p>Invited Presentation</p> <p>Seismic Prediction Technology and Practical Application for Heterogeneous Reservoir Bodies</p> <p>Sun Xiping, Research Institute of Petroleum Exploration and Development, Professor-Level Senior Engineer</p>           |
| 08:50-09:15                                                                                                                                                                                                                                                     | <p>IFEDC202622841</p> <p>Application of Deep Learning-Based Multivariate Seismic Attribute Reservoir Prediction Technology in Fractured-Vuggy Reservoir Identification</p> <p>Wang Ziao, Bureau of Geophysical Prospecting Research Institute, CNPC</p> |
| 09:15-09:30                                                                                                                                                                                                                                                     | <p>IFEDC202621790</p> <p>Key Technologies and Applications of 3D Seismic Sweet Spots Prediction for Shale Oil in Qingcheng</p> <p>Ding Qian, Research Institute of Petroleum Exploration and Development of Changqing Oilfield Company, PetroChina</p>  |
| 09:30-09:40                                                                                                                                                                                                                                                     | <p>IFEDC202621424</p> <p>A Rock Physics-driven AVO Inversion Method for Tight Sandstone Reservoirs</p> <p>Wu Si, SINOPEC Geophysical Research Institute Co., Ltd.</p>                                                                                   |

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| 09:40-09:50 | <p>IFEDC202621136</p> <p>Research on Prediction Methods for Pore-fracture Type Reservoir of Weathered Crust: A Case Study of Basement in Paleo-Central Uplift Belt of Northern Songliao Basin</p> <p>Chen Hongan, Exploration and Development Research Institute of Daqing Oilfield Company</p> |
| 09:50-10:00 | <p>IFEDC202622566</p> <p>Application of Anisotropic Velocity Field-Based 3D Geological Modeling in the JQX08 Well Block</p> <p>Dai Yunjie, BGP,CNPC, Senior Engineer</p>                                                                                                                        |
| 10:00-10:30 | <p><b>Coffee Break and E-poster Seminars for Sharing</b></p>                                                                                                                                                                                                                                    |
| 10:30-10:45 | <p>IFEDC202622786</p> <p>3D Seismic Acquisition Technology of “Two Widths and Two Heights” in the Ordos Basin</p> <p>Du Zhongdong, BGP CNPC, Advanced Specialist</p>                                                                                                                            |
| 10:45-11:00 | <p>IFEDC202622842</p> <p>Quantitative Characteristics of Wind Noise and Analysis of Impact on Seismic Acquisition Data</p> <p>Cai Peiying, BGP DQ GEO. EXP. BRANCH, Vice Director</p>                                                                                                           |
| 11:00-11:15 | <p>IFEDC202620632</p> <p>Prediction Research on Multi-type Reservoir Bodies of Ordovician Carbonate Rocks in Central Tarim Area, Tarim Basin</p> <p>Yin Tianhao, SINOPEC Geophysical Research Institute Co.,Ltd., Deputy Director</p>                                                           |
| 11:15-11:30 | <p>IFEDC202622879</p> <p>Automatic Identification of String Induction Noise in Vibroseis Correlated Records Based on Reverse Sweep Cross-Correlation</p> <p>Sun Zhe, Chengdu University of Technology, State Key Laboratory of Oil &amp; Gas Reservoir Geology and Exploitation</p>             |
| 11:30-11:40 | <p>IFEDC202622116</p> <p>Deep Learning Recognition Method for Wellhead Markers of Pending Shots Based on YOLO26</p> <p>Wang Dapeng, BGP.Daqing geophysical exploration branch, Senior Engineer</p>                                                                                              |

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| 11:40-11:50                                                                                                                                                                                      | <p>IFEDC202621756</p> <p>Underwater Multi-Beam Positioning Technology for Complex Water Areas</p> <p>Wang Yunlei, BGP inc, cnpc, Senior Engineer</p>                                                                                                           |
| 11:50-12:00                                                                                                                                                                                      | <p>IFEDC202621604</p> <p>Development and Application of Wireless Monitoring and Alarm Device for Pressure of Vibrator Accumulator</p> <p>Xu Yongan, BGP International, CNPC, Senior Engineer</p>                                                               |
| 12:00-14:00                                                                                                                                                                                      | <p><b>Buffet Lunch and Break</b></p>                                                                                                                                                                                                                           |
| <p><b>17 September 2026 (p.m.)</b></p>                                                                                                                                                           |                                                                                                                                                                                                                                                                |
| <p><b>Host:</b></p> <p><b>Shi Yin, Harbin University of Science and Technology, Vice-President, the Convener of This Venue</b></p> <p><b>Yang Xiao, BGP, Professor-Level Senior Engineer</b></p> |                                                                                                                                                                                                                                                                |
| 14:00-14:15                                                                                                                                                                                      | <p>IFEDC202622110</p> <p>Machine Learning-Based Intelligent Well-Seismic Integration Method for Delta Reservoir Prediction and Its Application</p> <p>Dan Lingling, CNOOC, Energy Technology-Drilling&amp;Production Company, Senior Engineer</p>              |
| 14:15-14:30                                                                                                                                                                                      | <p>IFEDC202622501</p> <p>Quantitative Evaluation Method for Consistency of Tomographic Inversion Velocity Model Based on Near-Surface Data</p> <p>Wu Wei, BGP Hebei Acquisition Technology Branch, CNPC</p>                                                    |
| 14:30-14:45                                                                                                                                                                                      | <p>IFEDC202622431</p> <p>Sequence Stratigraphic Analysis and Detailed Sedimentary Facies Interpretation Driven by RGT Technology: A Case Study of the F03 Block in the Dutch North Sea</p> <p>Su Yiqing, PetroChina Hangzhou Research Institute of Geology</p> |
| 14:45-15:00                                                                                                                                                                                      | <p>IFEDC2026224617</p> <p>Potential of Combined Marine Electrical Prospecting Technology in Hydrocarbon Exploration: Theory and Practice.</p> <p>Marina G. Persova, Novosibirsk State Technical University</p>                                                 |

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| 15:00-15:15 | <p>IFEDC202622564</p> <p>A High-Speed 3D Seismic INPEFA Attribute Calculation Engine: A Leap from Single-Well Analysis to Full-Space Continuous Characterization</p> <p>Zhang Xiaomeng, Shengli Oilfield (Qingdao) Technology Research and Development Center Co.</p>                                  |
| 15:15-15:30 | <p>IFEDC202622437</p> <p>Integrated Gravity-Magnetic-Seismic Study on the Tectonic Framework of the Guyana-Suriname Basin</p> <p>Zhang Qianwen, PetroChina Hangzhou Research Institute of Geology</p>                                                                                                  |
| 15:30-15:45 | <p>IFEDC202620814</p> <p>Breaking the Fluid Detection Limit of Thin Reservoirs: Novel Geophysical Methods for Complex Gas Reservoirs in the Longwangmiao Formation</p> <p>Shi Xiaohui, Northwest Branch, PetroChina Research Institute of Petroleum Exploration &amp; Development, Senior Engineer</p> |
| 15:45-16:00 | <p>IFEDC202622476</p> <p>Application of Deep Learning-Based Spectral Ground Object Recognition Technology in Seismic Acquisition</p> <p>Lv Jialing, BGP Inc., China National Petroleum Corporation</p>                                                                                                 |
| 16:00-16:30 | <p><b>Coffee Break and E-poster Seminars for Sharing</b></p>                                                                                                                                                                                                                                           |
| 16:30-16:45 | <p>IFEDC202622794</p> <p>Three Dimensional Seismic Acquisition Technology and Effect of Converted Waves in Loess Mountainous Areas</p> <p>Du Hao, BGP CNPC</p>                                                                                                                                         |
| 16:45-17:00 | <p>IFEDC202621394</p> <p>An Improved CMA-ES-Based Method for Optimizing Staggered-Grid Finite-Difference Coefficients in the Generalized Wave Equation</p> <p>Gong Hongwei, Beijing University of Chemical Technology</p>                                                                              |
| 17:00-17:15 | <p>IFEDC202621099</p> <p>Seismic Response Characteristics and Imaging Effects of Explosive and Vibroseis Sources</p> <p>Fan Limin, BGP, Senior Engineer</p>                                                                                                                                            |

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| 17:15-17:30 | <p>IFEDC202622887</p> <p>Optimization of Borehole Source Excitation Parameters Based on Numerical Simulation From Homogeneous Media to Sand-Mud Interbedded Strata</p> <p>Jing Longjiang, BGP Inc., CNPC, Senior Engineer</p>                                      |
| 17:30-17:45 | <p>IFEDC202622409</p> <p>High-Precision Prediction of Lacustrine Carbonate Reservoirs Using Facies-Constrained Frequency-Divided Inversion: A Case Study from the Yingxi Area, Qaidam Basin</p> <p>Guo Jian, PetroChina Hangzhou Research Institute of Geology</p> |
| 17:45-18:00 | <p>IFEDC202622489</p> <p>Data-Driven Inverse-Weighted Parabolic Radon Transform for Multiple Suppression</p> <p>Shi Wei, Xinjiang Research Institute of the Huairou Laboratory</p>                                                                                 |
| 18:30-20:30 | <p><b>Buffet Dinner</b></p>                                                                                                                                                                                                                                        |

## Session 4

## Meeting Room 4, 1F

### Logging Technology and Rock Physics Innovation

Co-organized by: China University of Petroleum (Beijing)

Convener: Yue Wenzheng, China University of Petroleum (Beijing), Professor

Date: 16-18 September, 2026

| 16 September 2026 (p.m.)                                                                                                                                                                                |                                                                                                                                                                                                              |
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| <b>Host:</b><br><b>Yue Wenzheng, China University of Petroleum (Beijing), Professor, the Convener of This Venue</b><br><b>Wang Kewen, Logging Technology Institute, Professor-level Senior Engineer</b> |                                                                                                                                                                                                              |
| 14:00-14:20                                                                                                                                                                                             | Invited Presentation<br>Current Status and Challenges in Logging Rock Physics Research of Heterogeneous Complex Reservoirs<br>Wang Kewen, Logging Technology Institute, Professor-level Senior Engineer      |
| 14:20-14:40                                                                                                                                                                                             | Invited Presentation<br>Simulation Study on the Influence of Temperature and Pressure on Rock Conductivity Based on Digital Core<br>Nie Xin, China University of Petroleum (Beijing), Professor              |
| 14:40-15:00                                                                                                                                                                                             | Invited Presentation<br>Study on Seismic Rock-Physics Model of Pressure Solution Gas Reservoirs<br>Ba Jing, Hohai University, Professor                                                                      |
| 15:00-15:20                                                                                                                                                                                             | Invited Presentation<br>Advances and Applications of 3D Far-field Acoustic Imaging Logging<br>Xu Xiaokai, Geological Measurement and Control Technology Research, Vice Dean, Professor-Level Senior Engineer |
| 15:20-15:40                                                                                                                                                                                             | Invited Presentation<br>Analysis and Application of Differences in Laboratory, Well Site, and Downhole Nuclear Magneti<br>Su Junlei, Logging Department, Director                                            |

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| 15:40-16:00 | <p>IFEDC202621284</p> <p>Elastic Moduli Measurements at Seismic Frequencies Using Quasi-Distributed Fiber Optic Strain Sensing System under Different Pressures</p> <p>Liu Qijun, Sinopec Co., Ltd. Jiangnan Oil Field Branch, Senior Engineer</p>                                                                              |
| 16:00-16:30 | <p><b>Coffee Break and E-poster Seminars for Sharing</b></p>                                                                                                                                                                                                                                                                    |
| 16:30-16:50 | <p>Invited Presentation</p> <p>Borehole External Acoustic Field Induced by Stoneley Waves and Its Investigation Depth for Permeability</p> <p>Hu Hengshan, Harbin Institute of Technology, Professor</p>                                                                                                                        |
| 16:50-17:10 | <p>Invited Presentation</p> <p>Progress in Theory and Imaging Technology of Casing Well Hole Sound Field</p> <p>Liu Yang, Tianjin University, Professor</p>                                                                                                                                                                     |
| 17:10-17:30 | <p>IFEDC202620789</p> <p>Improvement and Application Evaluation of RAS Full Spectrum Saturation Logging Interpretation Method Coupled with Lithology and Wellbore Correction</p> <p>Liu Jihui, PetroChina logging Co., Ltd., Liaohe branch, Senior Engineer</p>                                                                 |
| 17:30-17:45 | <p>IFEDC202621598</p> <p>Experimental Study on the Acoustic Characteristics and Their Change Laws of Shale after High-temperature Heat Treatment</p> <p>Qiu Bihan, Exploration and Development Research Institute of Daqing Oilfield Co Ltd.</p>                                                                                |
| 17:45-18:00 | <p>IFEDC202621622</p> <p>Key Logging Evaluation Technologies and Applications for Shale Oil “Three Qualities” in Junggar Basin-A Case Study of Permian Fengcheng Formation in Mahu Sag</p> <p>Wang Wei, Research Institute of Petroleum Exploration and Development, Xinjiang Oilfield Company, PetroChina, Senior Engineer</p> |
| 18:30-20:30 | <p><b>Excellent Paper Award Ceremony (Large Conference Hall, 1F )</b></p>                                                                                                                                                                                                                                                       |

| 17 September 2026 (a.m.)                                                                                                                 |                                                                                                                                                                                                                                                                                 |
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| <b>Host:</b><br><b>Tan Maojin, China University of Geosciences, Beijing, Professor</b><br><b>Liu Yang, Tianjin University, Professor</b> |                                                                                                                                                                                                                                                                                 |
| 08:30-08:50                                                                                                                              | Invited Presentation<br>Digital Rock Physics: When Digital Core Meets Artificial Intelligence<br>Tan Maojin, China University of Geosciences (Beijing), Professor                                                                                                               |
| 08:50-09:10                                                                                                                              | IFEDC202623049<br>Rock Mineral Scanned Image Recognition Technology Based on MCAU-Net++ Model<br>Song Guoqing, Xi'an Shiyou University, Associate Professor                                                                                                                     |
| 09:10-09:30                                                                                                                              | IFEDC202622287<br>Research on Intelligent Interpretation Method for TOC Logging of Basin-Level Source Rocks--Taking the Chang 7 Member of the Ordos Basin as an Example<br>Wei Hongyuan, Research Institute of Exploration & Development, PetroChina Changqing Oilfield Company |
| 09:30-09:45                                                                                                                              | IFEDC202623028<br>Transferable Machine-Learning Models for Predicting Poisson's Ratio and Elastic Attributes in Geologically Contrasting Reservoirs<br>Dr. Ahmed Bakry, Northeast Petroleum University                                                                          |
| 09:45-10:00                                                                                                                              | IFEDC202621715<br>Intelligent Core-Log Depth Matching and MOA-Optimized LightGBM for Porosity Prediction of Tight Sandstone Reservoirs in the Xu-6 Member, Guang'an Area<br>Liao Zheyuan, College of Energy, Chengdu University of Technology                                   |
| 10:00-10:30                                                                                                                              | <b>Coffee Break and E-poster Seminars for Sharing</b>                                                                                                                                                                                                                           |
| 10:30-10:50                                                                                                                              | IFEDC202621516<br>Research on the Early-warning Method for Oil and Gas Well Casing Damage Based on DNA Sequencing Identification<br>Ju Yafeng, Changqing Oilfield Company, PetroChina, Senior Engineer                                                                          |

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| 10:50-11:10                                                                                                                                                       | <p>IFEDC202621116</p> <p>High-Precision Spectroscopy Analysis for CO<sub>2</sub> and Gas Compositions in Downhole Environments</p> <p>Yu Qiang, COSL, Professor-Level Senior Engineer</p>                                                         |
| 11:10-11:30                                                                                                                                                       | <p>IFEDC202621482</p> <p>Research on Recyclable Protective Cover Storage Logging Technology and Its Application in Small Hole Horizontal Wells</p> <p>Ji Benhao, Changqing Branch, China National Logging Corporation</p>                         |
| 11:30-11:45                                                                                                                                                       | <p>IFEDC202620900</p> <p>Identification and Classification Evaluation of Low-Resistivity Oil Layers in Y Oilfield</p> <p>Li Xiaojiao, PetroChina Huabei Oilfield Company, Senior Engineer</p>                                                     |
| 11:45-12:00                                                                                                                                                       | <p>IFEDC202621094</p> <p>Analysis on Influencing Factors of Spontaneous Potential Abnormalities in High Water Cut Period of Laojunmiao Oilfield</p> <p>Wu Chun, Tuha Branch, China Petroleum logging Co. LTD</p>                                  |
| 12:00-14:00                                                                                                                                                       | <p><b>Buffet Lunch and Break</b></p>                                                                                                                                                                                                              |
| <p><b>17 September 2026 (p.m.)</b></p>                                                                                                                            |                                                                                                                                                                                                                                                   |
| <p><b>Host:</b></p> <p><b>Nie Xin, China University of Petroleum, Beijing, Professor</b></p> <p><b>Hu Hengshan, Harbin Institute of Technology, Professor</b></p> |                                                                                                                                                                                                                                                   |
| 14:00-14:20                                                                                                                                                       | <p>IFEDC202622779</p> <p>A Calculation Method for the Permeability of Fracture-Vuggy Carbonate Reservoirs Constrained by Production Well Logging Data</p> <p>Sun Ligu, China National Logging Corporation, Senior Engineer</p>                    |
| 14:20-14:40                                                                                                                                                       | <p>IFEDC202622656</p> <p>Fine Log Interpretation and Classification Evaluation of Complex Carbonate Reservoirs in the R Gas Field</p> <p>Ren Jie, Zhongyuan Oilfield Exploration and Development Research Institute, SINOPEC, Senior Engineer</p> |

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| 14:40-15:00 | <p>IFEDC202621654</p> <p>High-Precision Rock Mechanics Modeling Based on Core Dual-Energy CT Scanning and Acoustic Anisotropy Measurement</p> <p>Shi Yaoli, Exploration &amp; Development Research Institute of Xinjiang Oilfield, Director</p>                                                                      |
| 15:00-15:15 | <p>IFEDC202621420</p> <p>Secondary Porosity of Carbonate Reservoir Calculated by Electrical Imaging Logging-Automatic Matching Cut-Off Value Algorithm Based on Morphological Characteristics of Porosity Spectrum</p> <p>Fu Meinan, Exploration and Development Research Institute of Daqing Oilfield Co., Ltd.</p> |
| 15:15-15:30 | <p>IFEDC202620861</p> <p>Analysis of Main Control Factors of Reservoir and Research on Fluid Identification Method in S Oilfield</p> <p>Li Hui, Exploration and Development Research Institute of PetroChina Huabei Oilfield, Senior Engineer</p>                                                                    |
| 15:30-15:45 | <p>IFEDC202621830</p> <p>Experimental Analysis of Elastic Responses of Mixed Sedimentary Rocks to Pore Pressure Variations across Seismic Frequencies-A Case Study from the Qianjiang Formation, Jiangnan Basin</p> <p>Yi Shengbo, China University of Petroleum, Beijing</p>                                        |
| 15:45-16:00 | <p>IFEDC202622450</p> <p>Multi-Scale Pore Structure Characterization and Fluid Mobility Evaluation of Continental Shale Based on FIB-SEM and Micro-CT Digital Core</p> <p>Pan Yuling, Key Laboratory for Enhanced Oil &amp; Gas Recovery of the Ministry of Education, Northeast Petroleum University</p>            |
| 16:00-16:30 | <p><b>Coffee Break and E-poster Seminars for Sharing</b></p>                                                                                                                                                                                                                                                         |
| 16:30-16:50 | <p>IFEDC202621564</p> <p>Innovative Logging and Measurement Methods for Rapid Prediction of Collapse Pressure in Mud Shale Formations and Their Applications</p> <p>Zhang Heng, Jiangnan Logging Company, Sinopec Matrix Corporation, Senior Engineer</p>                                                            |

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| 16:50-17:10                                                                                                                                                                                       | <p>IFEDC202622452</p> <p>Study on Fracture Effectiveness in Deeply Buried Carbonate Rock Reservoirs</p> <p>Hong Jing, North China Branch, China National Logging Corporation, Senior Engineer</p>                                              |
| 17:10-17:30                                                                                                                                                                                       | <p>IFEDC202622932</p> <p>Rock Electrical-Microcapillary Pressure Joint Measurement Constraints for Gas Reservoir Core Saturation Index Model</p> <p>Guo Lei, Engineering Technology Branch of CNOOC Energy Development Co., Ltd.</p>           |
| 17:30-17:45                                                                                                                                                                                       | <p>IFEDC202622341</p> <p>Radial Complex Velocity Profile Inversion Method for Borehole Surroundings Based on Array Acoustic Logging Data</p> <p>Li Siyuan, China university of petroleum, Beijing.</p>                                         |
| 17:45-18:00                                                                                                                                                                                       | <p>IFEDC202620725</p> <p>Neutron-Density Cross Porosity method application and effectiveness evaluation in South Sulige Block</p> <p>Wang He, PetroChina Changqing Oilfield South Sulige Operating Company, Senior Engineer</p>                |
| 18:30-20:30                                                                                                                                                                                       | <p><b>Buffet Dinner</b></p>                                                                                                                                                                                                                    |
| <p><b>18 September 2026 (a.m.)</b></p>                                                                                                                                                            |                                                                                                                                                                                                                                                |
| <p><b>Host:</b></p> <p><b>Ba Jing, Hohai University, Professor</b></p> <p><b>Su Junlei, Well Logging Institute, SINOPEC Petroleum Exploration and Production Research Institute, Director</b></p> |                                                                                                                                                                                                                                                |
| 08:30-08:50                                                                                                                                                                                       | <p>IFEDC202622395</p> <p>Analysis and Evaluation of NMR Measurement Methods for Shale Porosity: A Case Study of Gulong Shale Oil</p> <p>Sun Fujing, Oil Reservoir Dynamic Monitoring Center Shengli Oilfield Company Sinopec, Postdoctoral</p> |

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| 08:50-09:10 | <p>IFEDC202621626</p> <p>Key Log Evaluation Technologies for Interbedded Shale Oil Sweet Spots in the Lianggaoshan Formation, Central Sichuan Basin</p> <p>Xie Bing, Research Institute of Exploration and Development Southwest Oil and Gasfield Company, PetroChina</p> |
| 09:10-09:30 | <p>IFEDC202621142</p> <p>Study on Characteristics of Deep Sandstone Reservoirs and Methods for Determining the Lower Limit of Oil-Bearing Layers</p> <p>Yang Shaoxin, Exploration and Development Research Institute of PetroChina Huabei Oilfield, Senior Engineer</p>   |
| 09:30-09:45 | <p>IFEDC202621688</p> <p>Methane Adsorption Characteristics of Different Shale Types in the Qiongzhusi Formation, Ziyang Area, Sichuan Basin</p> <p>Lei Canru, Shale Gas Research Institute of PetroChina Southwest Oil &amp; Gas Felid Company</p>                       |
| 09:45-10:00 | <p>IFEDC202622422</p> <p>The variation of tortuosity in reservoir rocks based on digital cores: A comparison of sandstone, carbonate, and shale</p> <p>Liu Yizhuo, China University of Petroleum(Beijing)</p>                                                             |
| 10:00-10:30 | <p><b>Coffee Break and E-poster Seminars for Sharing</b></p>                                                                                                                                                                                                              |
| 10:30-10:45 | <p>IFEDC202620866</p> <p>The Logging Response Mechanism of Asphalt-Gravel Reservoirs and the Evaluation Methods for Oil and Water Layers</p> <p>Lin Jingqi, College of Earth Sciences, China University of Petroleum (Beijing), Senior Engineer</p>                       |
| 10:45-11:00 | <p>IFEDC202620847</p> <p>A Study on Logging Evaluation Method for Gas-Bearing Property of Over-Mature Shale in the Qiongzhusi Formation, Ziyang Area, Sichuan Basin</p> <p>Qiu Xiaoxue, Shale Gas Research Institute, PetroChina Southwest Oil &amp; Gasfield Company</p> |

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| 11:00-11:15 | <p>IFEDC202621830</p> <p>Experimental Analysis of Elastic Responses of Mixed Sedimentary Rocks to Pore Pressure Variations across Seismic Frequencies: A Case Study from the Qianjiang Formation, Jiangnan Basin</p> <p>Yi Shengbo, China University of Petroleum, Beijing</p> |
| 11:15-11:30 | <p>IFEDC202621960</p> <p>Research on Non-intrusive Tubing Leak Location Technology Based on Coupled Simulation of Flow Field and Sound Field</p> <p>Xu Kewei, Oil &amp; Gas Technology Research Institute, PetroChina Southwest Oil &amp; Gas field Company</p>                |
| 11:30-11:45 | <p>IFEDC202621682</p> <p>Petrophysical Experimental Testing and Analysis of Reservoir Shale at Seismic Frequency Band</p> <p>Ni Jingyang, China University of Petroleum, Beijing</p>                                                                                           |
| 11:45-12:00 | <p>IFEDC202621712</p> <p>Research on Geomechanical Modeling and Four-Dimensional Stress Field Numerical Simulation of Vuggy Reservoirs</p> <p>Fu Weihao, China University of Petroleum</p>                                                                                     |
| 12:00-14:00 | <p><b>Buffet Lunch and Break</b></p>                                                                                                                                                                                                                                           |



## Session 5

## VIP Room 2, 1F

### Digital Twin and Intelligent Reservoir Characterization

Co-organized by: PetroChina Research Institute of Petroleum Exploration & Development

Convener: Gong Renbin, PetroChina Research Institute of Petroleum Exploration & Development, Professor & Former Chief Expert

Jia Ailin, PetroChina Research Institute of Petroleum Exploration & Development, Chief Expert

Date: 16 September, 2026

| 16 September 2026 (p.m.)                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                                                                                                        |
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| <b>Host:</b><br><b>Jia Ailin, PetroChina Research Institute of Petroleum Exploration &amp; Development, Chief Expert, the Convener of This Venue</b><br><b>Yang Wuyang, Northwest Branch of PetroChina Exploration and Development Research Institute, Professor-Level Senior Engineer, Conference Review Experts</b> |                                                                                                                                                                                                                                                                                        |
| 14:00-14:15                                                                                                                                                                                                                                                                                                           | IFEDC202622930<br>Study on Micro-pore Structure and Water Flooding Characteristics by Digital Core<br>Li Fangfang, CNOOC EnerTech Drilling & Production Co., Senior Engineer                                                                                                           |
| 14:15-14:30                                                                                                                                                                                                                                                                                                           | IFEDC202622295<br>A Multiscale Workflow Integrating Molecular Dynamics and Digital Rock Physics for Predicting Mineral-Controlled Wettability and Multiphase Flow<br>Dr. Anastasia Ivanova, Center for Hydrocarbon Recovery                                                            |
| 14:30-14:45                                                                                                                                                                                                                                                                                                           | IFEDC202621435<br>A Novel Method for Digital Core Construction and Gas-Water Flow Simulation under High Pressure in Fracture-Cavity Carbonate Gas Reservoir<br>Wang Rong, Exploration and Development Research Institute, PetroChina Southwest Oil & Gasfield Company, Senior Engineer |
| 14:45-15:00                                                                                                                                                                                                                                                                                                           | IFEDC202622310<br>Intelligent Regulation of Fluid Flow in Heterogeneous Reservoirs Via Transformer-Based Pore Network Characterization<br>Daniel Eshimiakhe, Northeast Petroleum University                                                                                            |

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| 15:00-15:15 | <p>IFEDC202621342</p> <p>Study on the Rock Cutting and Fragmentation Mechanisms of a PDC Cutter Based on Digital Rock Mechanics</p> <p>Shen Xinyu, Oil and Gas Technology Research Institute of Southwest Oil &amp; Gas Field Company, PetroChina, Director</p>                                                |
| 15:15-15:30 | <p>IFEDC202623025</p> <p>Automated Petrophysical Characterization and Reservoir KPI Visualization through an Integrated Python-JS Framework</p> <p>Ernesto J Guerrero, Independent, Petroleum Engineer</p>                                                                                                     |
| 15:30-15:45 | <p>IFEDC202621768</p> <p>A Physics-Constrained Deep-Learning-Assisted Homogenization Method for Permeability Upscaling in Porous Media</p> <p>Dang Dafeng, China University of Petroleum (East China)</p>                                                                                                      |
| 15:45-16:00 | <p>IFEDC202621267</p> <p>Technical System and Application Practice of Knowledge Intellectualization in Oil and Gas Exploration and Development</p> <p>Zeng Qian, Research Institute of Petroleum Exploration and Development, PetroChina, Senior Engineer</p>                                                  |
| 16:00-16:30 | <p><b>Coffee Break and E-poster Seminars for Sharing</b></p>                                                                                                                                                                                                                                                   |
| 16:30-16:45 | <p>IFEDC2026224593</p> <p>The Large-Scale Efficient Reservoir Simulation Technology and Software of Offshore Oilfields</p> <p>Wei Zhijie, State Key Laboratory of Offshore Oil and Gas Exploitation, CNOOCR EsearchInstitute Co.Ltd., Director</p>                                                             |
| 16:45-17:00 | <p>IFEDC202621782</p> <p>Intelligent Prediction Technology and Application of Geological Model for Complex Strongly Heterogeneity Carbonate Gas Reservoirs</p> <p>Wang Bei, Research Institute of Petroleum Exploration and Development, PetroChina Southwest Oil &amp; Gas Field Company, Senior Engineer</p> |
| 17:00-17:15 | <p>IFEDC202623032</p> <p>Variable-Rate Decline Digital Twins for Intelligent Reservoir Characterization: Conventional and Unconventional Systems</p> <p>Branimir Cvetkovic, National University &amp; Laquo</p>                                                                                                |

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| 17:15-17:30 | <p>IFEDC202622578</p> <p>Modeling of Multi-scale Fracture Network in the Lower-Amu Darya River Right Bank Area and Prediction of Gas and Water Distribution</p> <p>Huang Ye, Chengdu University of Technology</p>        |
| 17:30-17:45 | <p>IFEDC202622565</p> <p>Intelligent Recognition Method for Multi-scale Logging Facies Based on Multimodal Large Models</p> <p>Sun Chaoqi, Shengli Oilfield (Qingdao) Technology Research and Development Center Co.</p> |
| 17:45-18:00 | <p>IFEDC202621109</p> <p>Lost Circulation Detection And Diagnosis Based On Domain Knowledge Guided Time Series Analysis</p> <p>Shi Xiaoyan, CNPC Engineering Technology R&amp;D Company Limited</p>                      |
| 18:30-20:30 | <p><b>Excellent Paper Award Ceremony (Large Conference Hall, 1F )</b></p>                                                                                                                                                |



## Session 6

## Meeting Room 6, 2F

### High Water-Cut Oilfields and Remaining Oil Development

Co-organized by: CNOOC (China) Co., Ltd. Tianjin Branch

Convener: Cai Hui, CNOOC (China) Co., Ltd. Tianjin Branch Liaodong Operating Company, Chief Engineer

Date: 16-17 September, 2026

| 16 September 2026 (p.m.)                                                                                                                                                                                                                                                                                        |                                                                                                                                                                                                                                                              |
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| <b>Host:</b><br><b>Cai Hui, CNOOC (China) Co., Ltd. Tianjin Branch Liaodong Operating Company, Chief Engineer, the Convener of This Venue</b><br><b>You Chunmei, Exploration and Development Research Institute of Daqing Oilfield Company Ltd., professor-Level Senior Engineer, Conference Review Experts</b> |                                                                                                                                                                                                                                                              |
| 14:00-14:25                                                                                                                                                                                                                                                                                                     | Invited Presentation<br>Research and Practice on Continuous Enhancement of High Water Cut Oilfield in Chengbei Area<br>Chen Jianbo, Tianjin Branch of CNOOC (China), Senior Engineer                                                                         |
| 14:25-14:50                                                                                                                                                                                                                                                                                                     | IFEDC202620757<br>Residual Oil Recovery Technology Based on Detailed Description of Sand Body Outcrops on Erosional Surfaces<br>Wu Gang, Exploration and Development Research Institute, Shengli Oilfield Company, SINOPEC, Institute Experts and Researcher |
| 14:50-15:15                                                                                                                                                                                                                                                                                                     | IFEDC202620921<br>Re-Saturated Oil Identification in Swept Reservoir and Its Applications in Nearly Depleted Mature Oilfield<br>Lv Xiaoguang, C&C Reservoirs, Chief Reservoir Engineer                                                                       |
| 15:15-15:40                                                                                                                                                                                                                                                                                                     | IFEDC202622736<br>Characteristics of Interlayer in Delta Front Reservoirs of Oilfield C in the Pearl River Mouth Basin and Their Controlling Effect on Remaining Oil<br>Chen Chen, Shenzhen Branch of CNOOC Limited                                          |

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| 15:40-16:00 | <p>IFEDC202621634</p> <p>A study on the Quantitative Evaluation of Reservoir Producing Degree Using the Petrel Numerical Simulation Grid Method and Its Application</p> <p>Ma Xiaoxiao, Exploration and Development Research Institute, PetroChina Liaohe Oilfield Company</p>  |
| 16:00-16:30 | <p><b>Coffee Break and E-poster Seminars for Sharing</b></p>                                                                                                                                                                                                                    |
| 16:30-16:50 | <p>IFEDC202621870</p> <p>Characterization-Driven Identification and Remediation of Ineffective Water Circulation Based on Preferential Water Flow Channels</p> <p>Wang You Hui, Liaohe Oilfield Company, CNPC, Deputy Director</p>                                              |
| 16:50-17:10 | <p>IFEDC202622438</p> <p>Multi-Scale Pore Structure Characterization and Microscopic Occurrence Patterns of Remaining Oil in Ultra-Low Permeability Reservoirs</p> <p>Zhang Yimin, Exploration and Development Research Institute of PetroChina, Changqing Oilfield Company</p> |
| 17:10-17:30 | <p>IFEDC202621491</p> <p>Application of Oxygen Activation Technique in Flow Identification Using Full? Spectrum Saturation Logging</p> <p>Mao Haitao, China National Logging Corporation, Senior Engineer</p>                                                                   |
| 17:30-17:45 | <p>IFEDC202621078</p> <p>Development and Performance Research of Modified Cellulose Nanofibrils Reinforced Gel System</p> <p>Ao Wenjun, CNOOC Energy Development Co., Ltd. Engineering Technology Branch, Senior Engineer</p>                                                   |
| 17:45-18:00 | <p>IFEDC202621680</p> <p>Study on the Combined Profile Control and Flooding Performance of Three-Phase Foam and Nanoparticle-Enhanced Foam</p> <p>Liu Aojue, China University of Petroleum (East China)</p>                                                                     |
| 18:30-20:30 | <p><b>Excellent Paper Award Ceremony (Large Conference Hall, 1F )</b></p>                                                                                                                                                                                                       |

| 17 September 2026 (a.m.)                                                                                                                                                                                                                                                                                   |                                                                                                                                                                                                                                                                     |
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| <b>Host:</b><br><b>Wu Gang, Exploration and Development Research Institute, Shengli Oilfield Company, SINOPEC, Institute Experts and Researcher, Conference Review Experts</b><br><b>Liu Bin, Shaanxi Yanchang Petroleum (Group) Co., Ltd., Professor-level Senior Engineer, Conference Review Experts</b> |                                                                                                                                                                                                                                                                     |
| 08:30-08:50                                                                                                                                                                                                                                                                                                | IFEDC202622445<br>Optimization Method for Injection-Production Parameters in Offshore Unconsolidated Sandstone Reservoirs<br>Liu Chen, CNOOC Research Institute Co., Ltd., Senior Engineer                                                                          |
| 08:50-09:10                                                                                                                                                                                                                                                                                                | IFEDC202621349<br>Research on Separate Layer Water Injection Fitting Method Based on the Water Absorption Factor<br>Chen Wenruo, No.2 Oil Production Plant, Daqing Oilfield Co., Ltd., Senior Engineer                                                              |
| 09:10-09:30                                                                                                                                                                                                                                                                                                | IFEDC202620765<br>Technology for Layer Series and Well Pattern Optimization in Chemical Flooding of Strong Heterogeneity and Large-Span Reservoirs<br>Gu Yujie, Exploration and Development Research Institute, PetroChina Huabei Oilfield Company, Senior Engineer |
| 09:30-09:45                                                                                                                                                                                                                                                                                                | IFEDC202621973<br>Optimization of Waterflood Development Layer Series for Super-thick Carbonate Reservoirs in the Mishrif Formation, Oilfield A, Middle East<br>Liu Yincheng, Research Institute of Petroleum Exploration and Development                           |
| 09:45-10:00                                                                                                                                                                                                                                                                                                | IFEDC202622802<br>Study on the Role of Fine Reservoir Characterization in Tapping Remaining Oil Potential<br>XueXue, Jidong Oilfield Nanpu Operating Area                                                                                                           |
| 10:00-10:30                                                                                                                                                                                                                                                                                                | <b>Coffee Break and E-poster Seminars for Sharing</b>                                                                                                                                                                                                               |

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| 10:30-10:50                                                                                                                                                                                                                   | <p>IFEDC202620940</p> <p>Establishment of Gas-drive Characteristic Curve and Theoretical Chart Derivation in a Continuous Gas-flooding Reservoir</p> <p>Huanglan, Sichuan Natural Resources Investment Group Co., Ltd., Vice of Minister of Mineral Resources</p>                                            |
| 10:50-11:10                                                                                                                                                                                                                   | <p>IFEDC202622067</p> <p>A Study on the Influencing Factors and Mechanism of Gel Profile Control System Performance in Offshore Fluvial Sandstone Reservoirs</p> <p>Wang Nan, Bohai Petroleum Research Institute, Tianjin Branch, CNOOC (China) Limited, Senior Engineer</p>                                 |
| 11:10-11:30                                                                                                                                                                                                                   | <p>IFEDC202622007</p> <p>Multi-Scale Experimental Study and Injection-Production Optimization of CO<sub>2</sub> Miscible Flooding in Strongly Heterogeneous Reservoirs</p> <p>Zhao Boya, Research Institute of Exploration and Development, Senior Engineer</p>                                              |
| 11:30-11:45                                                                                                                                                                                                                   | <p>IFEDC202621836</p> <p>Research and Practice of Enhanced Oil Recovery Technologies in Low-Permeability Reservoirs: A Case Study of the ND26 Block, Ningdong Oilfield</p> <p>Gao Dun, No. 1 Oil Production Plant, Sinopec North China Oil &amp; Gas Company, Vice Director of Institute for development</p> |
| 11:45-12:00                                                                                                                                                                                                                   | <p>IFEDC202621147</p> <p>“Secondary-Tertiary Combination” Layered Well Pattern Reconstruction Technology applied in Dagang X Fault Block</p> <p>Lv Lin, PetroChina Dagang Oilfield Company</p>                                                                                                               |
| 12:00-14:00                                                                                                                                                                                                                   | <p><b>Buffet Lunch and Break</b></p>                                                                                                                                                                                                                                                                         |
| <p><b>17 September 2026 (p.m.)</b></p>                                                                                                                                                                                        |                                                                                                                                                                                                                                                                                                              |
| <p><b>Host:</b></p> <p><b>Chen Jianbo, CNOOC (China) Tianjin Branch, Senior Engineer</b></p> <p><b>Lv Hengyu, Research Institute of Petroleum Exploration and Development, Senior Engineer, Conference Review Experts</b></p> |                                                                                                                                                                                                                                                                                                              |

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| 14:00-14:20 | <p>IFEDC202621237</p> <p>Research on Quantitative Evaluation Method of Inter-well Connectivity in Marine Sandstone Reservoirs Based on Deep Learning Coupled with B-L Equation</p> <p>Li Fan, College of Petroleum Engineering, China University of Petroleum, Senior Engineer</p>                         |
| 14:20-14:40 | <p>IFEDC202621066</p> <p>Research and Application of Balanced Sweep Control Technology Based on Remaining Displaceable Oil Method</p> <p>Kong Chaojie, Bohai Petroleum Research Institute, Tianjin Branch, CNOOC (China) Co., Ltd.</p>                                                                     |
| 14:40-15:00 | <p>IFEDC202623046</p> <p>Impact of Facies Upscaling Weighting Schemes on Oil Displacement Efficiency Prediction under Geological Uncertainty</p> <p>Olena Volodymyrivna Martus, National University “Yuri Kondratyuk Poltava Polytechnic”, Poltava, Ukraine</p>                                            |
| 15:00-15:20 | <p>IFEDC202622405</p> <p>A Machine Learning-Based Method for Remaining Oil Classification, Grading, and Precise Potential Tapping in High Water-Cut Mature Oilfields</p> <p>Yin Shize, Key Laboratory for Enhanced Oil &amp; Gas Recovery of the Ministry of Education, Northeast Petroleum University</p> |
| 15:20-15:40 | <p>IFEDC202620881</p> <p>Integrated Modeling-Simulation Technology for Efficient Development of Large-Scale Oilfields</p> <p>Yang Yongliang, PetroChina Liaohe Oilfield Company, Vice Director</p>                                                                                                         |
| 15:40-16:00 | <p>IFEDC2026224606</p> <p>Micro-Scale Seepage and Imbibition Mechanisms of Remaining Oil in Low-Permeability Reservoirs</p> <p>Liu Gaowen, School of Petroleum Engineering, China University of Petroleum (East China)</p>                                                                                 |
| 16:00-16:30 | <p><b>Coffee Break and E-poster Seminars for Sharing</b></p>                                                                                                                                                                                                                                               |
| 16:30-16:50 | <p>IFEDC202622657</p> <p>Deep Profile Control Mechanism and Field Application of Nano-Micron Dispersed Composite Gel Profile Control Agent</p> <p>Ding Tingji, China Oilfield Services Limited Oilfield Production Division</p>                                                                            |

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| 16:50-17:10 | <p>IFEDC202621206</p> <p>Well Pattern Reconstruction in Multi-Layer Combined Production Reservoirs during Middle-Late Development</p> <p>Zhao Yuzhi, PetroChina Huabei Oilfield Company</p>                                                                                           |
| 17:10-17:30 | <p>IFEDC202621359</p> <p>Study on Remaining Oil Distribution Law and Potential Tapping Countermeasures in a High Water-Cut Block</p> <p>Li Zhongmin, No.8 Oil Production Plant of Daqing Oilfield Co., Ltd.</p>                                                                       |
| 17:30-17:45 | <p>IFEDC202621163</p> <p>Research on Main Controlling Factors and Prediction of Water Breakthrough Patterns in Horizontal Wells Integrating Morphological Clustering and DNN Architecture</p> <p>Yu Wenjie, School of Petroleum and Natural Gas Engineering, Changzhou University</p> |
| 17:45-18:00 | <p>IFEDC202621714</p> <p>Research on a Multi-Well Joint Prediction Method for Oil Well Water Cut in Ultra-High Water-Cut Stage</p> <p>Cao Nan, School of Petroleum Engineering, China University of Petroleum (East China)</p>                                                        |
| 18:30-20:30 | <p><b>Buffet Dinner</b></p>                                                                                                                                                                                                                                                           |

## Session 7

## Mudanjiang Hall, 1F

### Complex Structure Wells and Drilling & Completion Technology

Co-organized by: CNPC Engineering Technology R&D Institute Co., Ltd.

Convener: Liu Wei, CNPC Engineering Technology R&D Institute Co., Ltd., Senior Corporate Expert

Date: 16-18 September, 2026

**16 September 2026 (p.m.)**

#### Host:

**Liu Wei, CNPC Engineering Technology R&D Institute Co., Ltd., Senior Corporate Expert, the Convener of This Venue**

**Dou Liangbin, College of Petroleum Engineering, Xi'an Petroleum University, Vice Dean, Conference Review Experts**

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| 14:00-14:20 | <p>Invited Presentation</p> <p>Research on Stick-Slip Vibration and Speed Reduction Mechanism of Drilling Rod and Drill Bit in Ultra-Deep Wells</p> <p>Liu Yonghui, China Petroleum Engineering Technology Research Institute, Senior Engineer</p>                                |
| 14:20-14:40 | <p>Invited Presentation</p> <p>Study on Rheological Stability of Polymer Reinforced Water-Based Drilling Fluids</p> <p>Xu Lin, Zhejiang Ocean University, Professor</p>                                                                                                           |
| 14:40-15:00 | <p>IFEDC202622714</p> <p>Mechanistic Understanding, Modeling Approaches, and Technical Challenges of High-Frequency Torsional Oscillations in Bottom Hole Assemblies</p> <p>Guo Huijuan, CNPC Engineering Technology R&amp;D Company Limited, Professor-Level Senior Engineer</p> |
| 15:00-15:15 | <p>IFEDC202621670</p> <p>Numerical Simulation of the Wellbore Temperature Field During Deep Shale Gas Drilling Considering Drill Bit Frictional Heating</p> <p>Liu Ziqing, China University of Petroleum (East China)</p>                                                         |

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| 15:15-15:30 | <p>IFEDC202621863</p> <p>Parameter Sensitivity Analysis of Rubber Sleeve in Equal Wall Thickness Screw Motors under Different Meshing Conditions</p> <p>Zhu Wenchao, Beijing Petroleum Machinery Co.</p>                             |
| 15:30-15:45 | <p>IFEDC202620707</p> <p>Optimization Design of Hydraulic Parameters of Two-Stage Bit Based on DEM-CFD Coupling Method</p> <p>Hu Huaigang, CNPC Engineering Technology R&amp;D Company Limited, Senior Engineer</p>                  |
| 15:45-16:00 | <p>IFEDC202621816</p> <p>Development and Application of a Real-Time Intelligent Analysis Platform for Drilling Operation Efficiency</p> <p>Gao Song, CNOOC EnerTech-Drilling &amp; Production Co.</p>                                |
| 16:00-16:30 | <p><b>Coffee Break and E-poster Seminars for Sharing</b></p>                                                                                                                                                                         |
| 16:30-16:45 | <p>Invited Presentation</p> <p>Research on Dynamic Characteristics of Drill String Lift-off Initiation in Complex Wellbores</p> <p>Li Siqi, Northeast Petroleum University, Professor</p>                                            |
| 16:45-17:00 | <p>Invited Presentation</p> <p>Monitoring, Early Warning and Detection Technology for Well Leakage during Drilling</p> <p>Zhu Zhongxi, Yangtze University, Professor</p>                                                             |
| 17:00-17:15 | <p>IFEDC202621778</p> <p>Shallow Formation Losses While Drilling: Case Studies and Evaluation of Important Factors and Parameters</p> <p>Ding Danhong, CNPC National Elite Institute of Engineering, Senior Engineer</p>             |
| 17:15-17:30 | <p>IFEDC202622517</p> <p>Mitigating Wellbore Instability In Fractured Formations Using Microcapsule-based Cementing Agents</p> <p>Song Nana, School of Petroleum Engineering, China University of Petroleum (East China), Doctor</p> |

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| 17:30-17:45                                                                                                                                                                                  | <p>IFEDC202622194</p> <p>Simulation of Gas Kick Control in Precise Managed Pressure Drilling Based on the Eulerian-Moment Method</p> <p>Li Xingyu, China University of Petroleum Beijing</p>                                                                                  |
| 17:45-18:00                                                                                                                                                                                  | <p>IFEDC202622339</p> <p>Development and Application of an Early Warning System for Drilling Overflow and Leakage Monitoring</p> <p>He Xianjie, Drilling &amp; Production Engineering Technology Research Institute, CNPC Chuanqing Drilling Engineering Co.Ltd.</p>          |
| 18:30-20:30                                                                                                                                                                                  | <p><b>Excellent Paper Award Ceremony (Large Conference Hall, 1F )</b></p>                                                                                                                                                                                                     |
| <p><b>17 September 2026 (a.m.)</b></p>                                                                                                                                                       |                                                                                                                                                                                                                                                                               |
| <p><b>Host:</b></p> <p><b>Ge Yunhua, CNPC Engineering Technology R&amp;D Company Limited, Professor-level Senior Engineer</b></p> <p><b>Xu Lin, Zhejiang Ocean University, Professor</b></p> |                                                                                                                                                                                                                                                                               |
| 08:30-08:50                                                                                                                                                                                  | <p>Invited Presentation</p> <p>AI-Enabled Drilling Site Diagnosis Technology</p> <p>Han Xiaosong, Jilin University, Professor</p>                                                                                                                                             |
| 08:50-09:10                                                                                                                                                                                  | <p>IFEDC202622527</p> <p>Field Analysis of Wellbore Temperature and Pressure Profiles from Drilling Micro-Measurer Data with a GRU Neural Network</p> <p>Li Mu, China University of Petroleum-Beijing, CNPC Engineering Technology R&amp;D Company Limited, Vice Director</p> |
| 09:10-09:30                                                                                                                                                                                  | <p>IFEDC2026216897</p> <p>Annular Top Kill Integrated with Automated MPD and Real-Time Hydraulic Modeling: A Well Control Contingency During Liner Running Operations</p> <p>Jose Sebastian Munoz Restrepo, Halliburton, Business Development Leader Testing And Subsea</p>   |

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| 09:30-09:45 | <p>IFEDC202622458</p> <p>Research and Application of Intelligent Control Technology for Drilling Rock-Breaking Parameters</p> <p>Yu Yang, CNPC Engineering Technology R&amp;D Company Limited, Deputy Manager/Senior Engineer</p>                                                                        |
| 09:45-10:00 | <p>IFEDC202621615</p> <p>Research and Application of Post-Fracturing Coring Technology for Coal-Rock Gas Wells in the Ordos Basin: A Case Study of Well E9-1</p> <p>Dang Hui, PetroChina Jidong Oilfield Company, Senior Engineer</p>                                                                    |
| 10:00-10:30 | <p><b>Coffee Break and E-poster Seminars for Sharing</b></p>                                                                                                                                                                                                                                             |
| 10:30-10:45 | <p>IFEDC202621659</p> <p>Current Status and Field Practice of Water-Based Drilling Fluids for Horizontal Wells in Continental Facies Shale Gas</p> <p>Wang Bo, Natural Gas Research Institute Company, Shaanxi Yanchang Petroleum (Group) Co., Ltd., Deputy Director/Professor-Level Senior Engineer</p> |
| 10:45-11:00 | <p>IFEDC202620616</p> <p>Progress and Prospect of Drilling and Completion Technology for Coalbed Methane Horizontal Wells in Changqing Oilfield</p> <p>Duan Zhifeng, Oil &amp; Gas Technology Research Institute of PetroChina Changqing Oilfield Company, Senior Engineer</p>                           |
| 11:00-11:15 | <p>IFEDC202621518</p> <p>Study on Completion Parameters of Variable Density Liner in Deep and Ultra-Deep Well</p> <p>Zeng Song, Oil and Gas Technology Research Institute of PetroChina Southwest Oil &amp; Gasfield Company</p>                                                                         |
| 11:15-11:30 | <p>IFEDC202622835</p> <p>Adaptive Learning Method For Predicting Geomechanical Parameters From Heterogeneous Formation Images Based On Deep Learning</p> <p>Sun Zhengxin, CNPC Engineering Technology R &amp; D Company Limited</p>                                                                      |
| 11:30-11:45 | <p>IFEDC202620795</p> <p>The Mechanism of Fracturing Hit Affecting the Performance of Oil-Based Drilling Fluids</p> <p>Li Mao, Southwest Petroleum University</p>                                                                                                                                        |

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| 11:45-12:00                                                                                                                                                                                                            | <p>IFEDC202622760</p> <p>Experimental Study on Early Identification of While-Drilling Overflow Based on Acoustic-Electrical Composite Measurement</p> <p>Tang Gui, Drilling and Production Engineering Technology Research Institute, CNPC Chuanqing Drilling Engineering Co., Ltd.</p> |
| 12:00-14:00                                                                                                                                                                                                            | <b>Buffet Lunch and Break</b>                                                                                                                                                                                                                                                           |
| <b>17 September 2026 (p.m.)</b>                                                                                                                                                                                        |                                                                                                                                                                                                                                                                                         |
| <p><b>Host:</b></p> <p><b>Han Xiaosong, Jilin University, Professor</b></p> <p><b>Guo Huijuan, CNPC Engineering Technology R&amp;D Company Limited, Professor-Level Senior Engineer, Conference Review Experts</b></p> |                                                                                                                                                                                                                                                                                         |
| 14:00-14:20                                                                                                                                                                                                            | <p>IFEDC202622377</p> <p>Experimental Study on Optimization of Drilling and Completion Fluid Systems for the Guantao Formation Reservoir in a Bohai Oilfield</p> <p>Sun Longfei, CNOOC(China) Tianjin Branch, Senior Engineer</p>                                                       |
| 14:20-14:40                                                                                                                                                                                                            | <p>IFEDC202622633</p> <p>Equivalent Method of Detonation Load and Mechanical Response Simulation Analysis for Test String in Ultra-Deep Well</p> <p>Wang Baodong, CNPC Engineering Technology R&amp;D Company Limited, Senior Engineer</p>                                              |
| 14:40-15:00                                                                                                                                                                                                            | <p>IFEDC202622429</p> <p>Frictional Resistance Calculation for Directional Perforation Tunnels in Bohai C Oilfield's TAML Level 4 Completion</p> <p>Bai Senlin, CNOOC China Limited, Tianjin Branch</p>                                                                                 |
| 15:00-15:15                                                                                                                                                                                                            | <p>IFEDC202623026</p> <p>Enhancing the Mechanical Properties of Bismuth-based Alloys for Optimal and Sustainable Plugging of Oil &amp; Gas Wells</p> <p>Malik Ahmed Yosif, Independent</p>                                                                                              |

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| 15:15-15:30 | <p>IFEDC202621648</p> <p>Cementing Technology for Deep Horizontal Wells in Ganchai Gou of Qinghai Oilfield</p> <p>Li Zongyao, CNPC Tianjin Bo-Xing Engineering Science and Technology Company Ltd.</p>                                                                                               |
| 15:30-15:45 | <p>IFEDC202623033</p> <p>Data-Driven Detection, Prediction, and Mitigation of Underground Blowout and Drilling Fluid Crossflow Risks During Drilling Operations</p> <p>Umrul Ismayilov, China University of Petroleum (Beijing)</p>                                                                  |
| 15:45-16:00 | <p>IFEDC202622229</p> <p>Construction and Application of an Ultra-Low Temperature High-Early-Strength Cement Slurry System</p> <p>Tang Yutong, China Oilfield Services Limited</p>                                                                                                                   |
| 16:00-16:30 | <p><b>Coffee Break and E-poster Seminars for Sharing</b></p>                                                                                                                                                                                                                                         |
| 16:30-16:50 | <p>IFEDC202622078</p> <p>Research on the Mechanical Properties and Failure Mechanisms of Shale under Coupled Effects of Weak-Plane Dip Angle and Foliation-Structure Loading Angle</p> <p>Cui Shuai, Shale Gas Research Institute, PetroChina Southwest Oil &amp; Gasfield Company, Postdoctoral</p> |
| 16:50-17:10 | <p>IFEDC202621640</p> <p>Performance Study of 240°C-Resistant Cement Slurry System Based on Molecular-Micro-Macro Correlation</p> <p>Wang Fuyun, Engineering Technology Research Institute of PetroChina Southwest Oil &amp; Gasfield Company, Senior Engineer</p>                                   |
| 17:10-17:30 | <p>IFEDC202621028</p> <p>Cracking Catalyst Wastes as Cement Raw Materials for Well Completion: A low Carbon Emission Option in Oil &amp; Gas Extraction</p> <p>Jian Hou, Aramco Asia Beijing Research Center, Senior Petroleum Engineer</p>                                                          |
| 17:30-17:45 | <p>IFEDC202621336</p> <p>Application of Multi-Dimensional Anti-Leakage and Large Temperature Difference Cementing Technology in Offshore Oilfields</p> <p>Shi Wei, CNPC Tianjin Bo-Xing Engineering Science and Technology Company Ltd., Deputy General Manager</p>                                  |

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| 17:45-18:00                                                                                                                                                                                                               | <p>IFEDC2026224595</p> <p>Preparation and Fracture-Sealing Evaluation of a Reversibly Temperature-Responsive Oil-Swellable Lost Circulation Material for Oil-Based Drilling Fluids</p> <p>Jiang Xuntao, China University of Petroleum (East China)</p>                                                 |
| 18:30-20:30                                                                                                                                                                                                               | <b>Buffet Dinner</b>                                                                                                                                                                                                                                                                                   |
| <b>18 September 2026 (a.m.)</b>                                                                                                                                                                                           |                                                                                                                                                                                                                                                                                                        |
| <p><b>Host:</b></p> <p><b>Yang Zhiguo, Kunlun Digital Technology Co., Ltd., Chief Engineer, Conference Review Experts</b></p> <p><b>Li Siqu, Northeast Petroleum University, Professor, Conference Review Experts</b></p> |                                                                                                                                                                                                                                                                                                        |
| 08:30-08:45                                                                                                                                                                                                               | <p>IFEDC202623058</p> <p>Experimental Study on Cuttings Transport in the Horizontal Section of Extended-Reach Wells</p> <p>Li Ze, China Oilfield Services Limited</p>                                                                                                                                  |
| 08:45-09:00                                                                                                                                                                                                               | <p>IFEDC202622575</p> <p>An Improved Structural Design and Preliminary Field Verification of Titanium Alloy Flexible Shaft for High-Inclination Well Positive Displacement Motor</p> <p>Zhang Honglin, CNPC Engineering Technology R&amp;D Co.,Ltd., Senior Engineer</p>                               |
| 09:00-09:15                                                                                                                                                                                                               | <p>IFEDC202621620</p> <p>Research and Field Application of a Multi-Functional Integrated Wellbore Cleaning Operation Tool for Multiple Composite Casing</p> <p>Wang Feiwen, PetroChina Xinjiang Oilfield Company</p>                                                                                   |
| 09:15-09:30                                                                                                                                                                                                               | <p>IFEDC202621005</p> <p>An Efficient Optimization Model for Helical Flow Channels in Turbine Drilling Tools</p> <p>Liu Bin, CNPC Engineering Technology R&amp;D Company Limited</p>                                                                                                                   |
| 09:30-09:45                                                                                                                                                                                                               | <p>IFEDC202620572</p> <p>Research on flow field simulation and structural optimization of ground variable-diameter choke in oil &amp; gas well based on fluid dynamics</p> <p>Tong Shaokai, Changqing Downhole Technology Operation Company, CNPC Chuanqing Drilling Engineering Co., Ltd., Doctor</p> |

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| 09:45-10:00 | <p>IFEDC202622626</p> <p>Simulation and Experimental Study on the Performance of Soft Metal Packer Sealing Elements</p> <p>Sun Jia, CNPC Engineering Technology R&amp;D Company Limited</p>                                                                    |
| 10:00-10:30 | <b>Coffee Break and E-poster Seminars for Sharing</b>                                                                                                                                                                                                          |
| 10:30-10:45 | <p>IFEDC202622941</p> <p>A Study on the Preparation and Performance of a Star-Shaped Polymer Fluid Loss Reducer for High-Temperature and High-Pressure Oil-Based Drilling Fluids</p> <p>Li Wenbiao, China University of Petroleum (East China)</p>             |
| 10:45-11:00 | <p>IFEDC202621957</p> <p>An Approach for Energy Conservation by Using N-Doped Carbon Quantum Dot Nanofluid in High-Temperature Oil and Gas Wells</p> <p>Tang Wenyue, CNPC CCDC Drilling &amp; Production Technology Research Institute</p>                     |
| 11:00-11:15 | <p>IFEDC202621944</p> <p>Development and Evaluation of a High-Performance Emulsifier for Deepwater Wide-Temperature-Range Synthetic-Based Drilling Fluids</p> <p>Bai Bingbing, School of Petroleum Engineering, China University of Petroleum (East China)</p> |
| 11:15-11:30 | <p>IFEDC202621730</p> <p>Synthesis and Performance of a Crosslinked Xylan-Based Drilling Fluid Additive with Environmentally Friendly and High-Temperature Resistant Properties</p> <p>Wei Ziman, Xi'an Shiyou University</p>                                  |
| 11:30-11:40 | <p>IFEDC202621605</p> <p>Research Status and Application Progress of Synthetic-Based Drilling Fluids</p> <p>Xu Guiqin, China University of Petroleum (East China)</p>                                                                                          |
| 11:40-11:50 | <p>IFEDC202621038</p> <p>Study on Comb Polymer Rheology Modifier for CO<sub>2</sub>-Resistant Water-Based Drilling Fluids</p> <p>Deng Xuefei, China University of Petroleum East China - Qingdao Campus</p>                                                    |
| 11:50-12:00 | <p>IFEDC202622453</p> <p>Research Progress and Prospects of High Temperature Resistant and Cooling Drilling Fluid Technologies for Ultra-Deep Well</p> <p>Ding Yang, China University of Petroleum (East China)</p>                                            |
| 12:00-14:00 | <b>Buffet Lunch and Break</b>                                                                                                                                                                                                                                  |



## Session 8

## Meeting Room 15, 2F

### Reservoir Fracturing and New Stimulation Technologies

Co-organized by: China University of Petroleum (East China)

Convener: Guo Tiankui, College of Petroleum Engineering, China University of Petroleum (East China) ,  
Professor and Vice Dean

He Jiayuan, Sinopec Petroleum Exploration and Production Research Institute, Professor-level  
Senior Engineer

Date: 16-18 September, 2026

| 16 September 2026 (p.m.)                                                                                                                                                                                                                                     |                                                                                                                                                                                                                                                 |
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| <b>Host:</b><br><b>Guo Tiankui, College of Petroleum Engineering, China University of Petroleum (East China), Professor and Vice Dean, the Convener of This Venue</b><br><b>Dong Zhenzhen, Xi'an Shiyou University, Professor, Conference Review Experts</b> |                                                                                                                                                                                                                                                 |
| 14:00-14:20                                                                                                                                                                                                                                                  | Invited Presentation<br>Research on Characteristics of Shale Oil Fracture Network and Optimization of Production Parameters<br>Zhao Wanchun, Northeast Petroleum University, Professor, Deputy Director of the Discipline Construction Division |
| 14:20-14:40                                                                                                                                                                                                                                                  | Invited Presentation<br>Construction of Flowback Fluid Recycling System for Unconventional Reservoir Fracturing<br>Wang Qingguo, Daqing Oil Production Engineering Institute, Corporate Expert                                                  |
| 14:40-15:00                                                                                                                                                                                                                                                  | IFEDC202622832<br>Evaluation of the Enhancement Characteristics of CO <sub>2</sub> in Shale Oil Reservoirs<br>Sun Yanchun, China Oilfield Services Limited                                                                                      |
| 15:00-15:20                                                                                                                                                                                                                                                  | IFEDC202622278<br>Study on Fracture Propagation Law and Main Controlling Factors of Hydraulic Fracturing in Lacustrine Shale<br>Huang Zhiwen, Sinopec Petroleum Exploration and Production Research Institute, Director                         |

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| 15:20-15:40 | <p>IFEDC202622260</p> <p>Design Method and Performance Evaluation of a Precision Fracturing Scheme for Longdong Shale Oil</p> <p>Ouyang Weiping, Changqing Downhole Technology Company, CNPC Chuanqing Drilling Engineering Company Limited</p>                      |
| 15:40-16:00 | <p>IFEDC202621677</p> <p>Research and Application of Fracturing Technology for Onshore Deep Gleiutenite Reservoir</p> <p>Chen Huanpeng, Sinopec Shengli Oilfield Company Limited</p>                                                                                 |
| 16:00-16:30 | <p><b>Coffee Break and E-poster Seminars for Sharing</b></p>                                                                                                                                                                                                         |
| 16:30-16:50 | <p>Invited Presentation</p> <p>Research on Multi-scale Expansion Mechanism of Hydraulic Fractures in Deep Reservoirs</p> <p>Huang Liuke, Southwest Petroleum University, Young Chang Jiang Scholar</p>                                                               |
| 16:50-17:10 | <p>IFEDC202621478</p> <p>Research and Application of Targeted Fracturing Technology for Wellbore Reconstruction</p> <p>Dong Weidong, No.4 Oil Production Plant of Daqing Oilfield Co., Ltd., Chief Engineer</p>                                                      |
| 17:10-17:30 | <p>IFEDC202622519</p> <p>Hydraulic Fracture Propagation Mechanisms in Multi-lithologic Stacked Reservoirs: Insights from Experiments and FEM Simulation</p> <p>Wang Fei, Research Institute of Exploration and Development, PetroChina Xinjiang Oilfield Company</p> |
| 17:30-17:45 | <p>IFEDC202622358</p> <p>Fracture Propagation of Explosion-Hydraulic Combined Fracturing in Horizontal Wells of Shale Gas Reservoirs: a Numerical Study</p> <p>Wang Haiyang, China University of Petroleum (East China)</p>                                          |
| 17:45-18:00 | <p>IFEDC202621883</p> <p>Analysis of the Effect of Complex Natural Fractures on Hydraulic Fracturing Behavior: Based on Natural Outcrop Data from Shunbei-1 Area</p> <p>Zhao Huan, Northeast Petroleum University</p>                                                |

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| 18:30-20:30                                                                                                                                                                                                                                              | <b>Excellent Paper Award Ceremony (Large Conference Hall, 1F )</b>                                                                                                                                                    |
| <b>17 September 2026 (a.m.)</b>                                                                                                                                                                                                                          |                                                                                                                                                                                                                       |
| <b>Host:</b><br><b>Wang Yanling, China University of Petroleum (East China), Professor, Conference Review Experts</b><br><b>Zhao Wanchun, Northeast Petroleum University, Professor and Deputy Director of the Department of Discipline Construction</b> |                                                                                                                                                                                                                       |
| 08:30-08:50                                                                                                                                                                                                                                              | IFEDC202621073<br>A High-Efficient CO <sub>2</sub> -Responsive Chemical Formulation for Potential High-Temperature Fracturing Applications<br>Chen Shaohua, Aramco Asia - Beijing Research Center, Senior Engineer    |
| 08:50-09:10                                                                                                                                                                                                                                              | IFEDC202621416<br>Research and Field Application of Solid Super Retarded Acid for Deep Carbonate Reservoir<br>Ren Guangcong, Engineering Technology R&D Company Limited, CNPC, Senior Engineer                        |
| 09:10-09:30                                                                                                                                                                                                                                              | IFEDC202622918<br>Hydrophobic Associative Polymer Thickener for High-Temperature and High-Salinity Fracturing Fluids<br>Zhang Bo, China University of Petroleum (East China)                                          |
| 09:30-09:45                                                                                                                                                                                                                                              | IFEDC202622788<br>Study on the Experimental Method for Evaluating the Plugging Performance of Multi-Morphology Soluble Temporary Plugging Agents<br>Li Ya, Xinjiang Oilfield Production Technology Research Institute |
| 09:45-10:00                                                                                                                                                                                                                                              | IFEDC202622503<br>Preparation and Rheological Evaluation of the Seawater-Based High-Temperature-Resistant Guar Gum Fracturing Fluid System<br>Li Xin, China University of Petroleum (East China)                      |
| 10:00-10:30                                                                                                                                                                                                                                              | <b>Coffee Break and E-poster Seminars for Sharing</b>                                                                                                                                                                 |

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| 10:30-10:50                                                                                                                                                                                                                                                                                                                          | <p>IFEDC202622336</p> <p>Research on the Back-Flow Mechanism of Proppants in Fractures and Sand Control in the Condition of Large Scale and Fully Measurable Flow Field</p> <p>Chen Yixin, PetroChina Southwest Oil and Gas Field Company, Senior Engineer</p> |
| 10:50-11:10                                                                                                                                                                                                                                                                                                                          | <p>IFEDC202621619</p> <p>Intelligent Parameter Calibration of Fiber-Proppant Systems Based on Contact Behavior Characterization for Hydraulic Fracturing</p> <p>Liu Yuxuan, School of Petroleum and Natural Gas Engineering, Southwest</p>                     |
| 11:10-11:30                                                                                                                                                                                                                                                                                                                          | <p>IFEDC202621108</p> <p>Experimental Study and Countermeasures for Reservoir Damage Caused by Micro-bubble Fluid Workover</p> <p>Gao Xinping, Oil and Gas Technology Institute of PetroChina Southwest Oil&amp;Gasfield Company, Senior Engineer</p>          |
| 11:30-11:45                                                                                                                                                                                                                                                                                                                          | <p>IFEDC202621315</p> <p>A Method for Calculating Critical Production Differential Pressure in Extended Reach and Gravel-Packed Wells</p> <p>Zhang Shuai, CNOOC China Limited, Tianjin Branch</p>                                                              |
| 11:45-12:00                                                                                                                                                                                                                                                                                                                          | <p>IFEDC202621033</p> <p>Fracture Propagation Patterns and Parameter Optimization Technology for Refracturing of Horizontal Wells in Low-Permeability Sandstone</p> <p>Chen Xiaoshan, Daqing Oilfield Co., Ltd. No.8 Oil Production Plant</p>                  |
| 12:00-14:00                                                                                                                                                                                                                                                                                                                          | <p><b>Buffet Lunch and Break</b></p>                                                                                                                                                                                                                           |
| <p><b>17 September 2026 (p.m.)</b></p>                                                                                                                                                                                                                                                                                               |                                                                                                                                                                                                                                                                |
| <p><b>Host:</b></p> <p><b>He Jiayuan, Sinopec Petroleum Exploration and Production Research Institute, Professor-Level Senior Engineer, the Convener of This Venue</b></p> <p><b>Liu Yuxuan, School of Petroleum and Natural Gas Engineering, Southwest Petroleum University, Associate Professor, Conference Review Experts</b></p> |                                                                                                                                                                                                                                                                |

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| 14:00-14:20 | <p>IFEDC202622933</p> <p>Study on the Effects and Applications of the Controllable Shock Wave-Induced Rock Fracturing</p> <p>Ding Jianghui, CNPC Engineering Technology R&amp;D Company Limited, Senior Engineer</p>                                                                                                                    |
| 14:20-14:40 | <p>IFEDC202622512</p> <p>Development and Field Application of Large-Displacement High-Precision Intelligent Electric-Driven Sand Mixing Unit</p> <p>Chai Long, CNPC Chuanqing Drilling Engineering Company Limited Changqing Downhole Technology Company</p>                                                                            |
| 14:40-15:00 | <p>IFEDC202621573</p> <p>Research on Differential Fracturing Optimization for Coal-Rock Gas Reservoir Based on Geology-Engineering Integration: A Case Study of Block A, Shenfu Area, Ordos Basin</p> <p>Zi Jingyu, CNOOC Research Institute Ltd.</p>                                                                                   |
| 15:00-15:15 | <p>IFEDC202622144</p> <p>Study on Far-Field Strain Response Characteristics of Offset-well Optical Fiber Monitoring during Hydraulic Fracturing of Ultra-deep Shale Gas Reservoirs in the Qiongzhusi Formation, Sichuan Basin</p> <p>Xiong Zhuang, Shale Gas Research Institute of PetroChina Southwest Oil &amp; Gas Field Company</p> |
| 15:15-15:30 | <p>IFEDC202621358</p> <p>Evaluation of the Effect of Oil Well Steering Fracturing and Potential Analysis</p> <p>Ran Nannan, No.8 Oil Production Plant of Daqing Oilfield Co., Ltd.</p>                                                                                                                                                  |
| 15:30-15:45 | <p>IFEDC202622122</p> <p>Aqueous and Non-Aqueous Fracturing Fluid Systems for Western Siberia Oil Shales</p> <p>Elena Mukhina, Skolkovo Institute of Science and Technology, Leading Research Scientist</p>                                                                                                                             |
| 15:45-16:00 | <p>IFEDC202621507</p> <p>Quantitative Characterization of Acid-Etched Wormhole in Carbonate Rock Using Low-Field Nuclear Magnetic Resonance Technology</p> <p>Lai Jie, State Key Laboratory of Oil and Gas Reservoir Geology and Exploitation, Southwest Petroleum University</p>                                                       |

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| 16:00-16:30 | <b>Coffee Break and E-poster Seminars for Sharing</b>                                                                                                                                                                                                                                                       |
| 16:30-16:45 | <p>IFEDC202621230</p> <p>Experiments and Applications on Perforation Tunnel Response Variation under Oriented Control: Syner-gizing Cable-Conveyed Oriented Perforation with Controlled Shockwaves</p> <p>Zhang Weimin, Testing Branch PetroChina Daqing Oilfield Co. Ltd., Senior Engineer</p>             |
| 16:45-17:00 | <p>IFEDC202622831</p> <p>Research on the main controlling factors of tight oil production in horizontal wells of the Shixi Miao Formation in the Sichuan Basin and the production prediction model</p> <p>Zhao Feng, Engineering Technology Research Institute of Southwest Oil &amp; Gas Field Company</p> |
| 17:00-17:15 | <p>IFEDC202621527</p> <p>A Case Study of Engineering and Geological Factors for Abnormal Treating Behavior in Deep Shale Gas Yi202 Well Block</p> <p>Xu Ersi, Shale Gas Research Institute</p>                                                                                                              |
| 17:15-17:30 | <p>IFEDC202621391</p> <p>Fracture width complex function inversion method based on adjacent well fiber-optic strain</p> <p>Wang Su, CNPC Engineering Technology R&amp;D Company Limited</p>                                                                                                                 |
| 17:30-17:45 | <p>IFEDC2026216906</p> <p>Optimization Design of High Temperature and High Pressure Test Device for Acid-Etched Fracture Conductivity</p> <p>Liu Xu, Oil &amp; Gas Technology Research Institute, PetroChina Southwest Oil &amp; Gasfield Company</p>                                                       |
| 17:45-18:00 | <p>IFEDC202621525</p> <p>Water Resources Management Practices in Oil and Gas Development in the Sichuan Basin</p> <p>He Qiping, CNPC Chuanqing Drilling Engineering Co, Senior Engineer</p>                                                                                                                 |
| 18:30-20:30 | <b>Buffet Dinner</b>                                                                                                                                                                                                                                                                                        |

| 18 September 2026 (a.m.)                                                                                                                                                                                     |                                                                                                                                                                                                                                                      |
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| <b>Host:</b><br><b>Wang Yanling, China University of Petroleum (East China), Professor, Conference Review Experts</b><br><b>Huang Liuke, SouthWest Petroleum University, the Young Yangtze River Scholar</b> |                                                                                                                                                                                                                                                      |
| 08:30-08:50                                                                                                                                                                                                  | IFEDC202621628<br>Synthesis of Polypseudorotaxane Precursor for Plugging Gels with Precisely Controlled Cyclodextrin Threading<br>Song Ronghao, CNPC Engineering Technology R&D Company Limited                                                      |
| 08:50-09:10                                                                                                                                                                                                  | IFEDC202620698<br>Optimization Technology for On-Site Detection Indicators of Acidizing Fluid and Evaluation of Its On-Site Application Effect<br>Hu Jinyu, Oil and Gas Process Research Institute of PetroChina Southwest Oil and Gas Field Company |
| 09:10-09:30                                                                                                                                                                                                  | IFEDC202622846<br>Numerical Simulation of Activation Mechanisms of Natural Fractures during In-Fracture Multi-Stage Temporary Plugging Fracturing<br>Zhang Guchang, China University of Petroleum (East China)                                       |
| 09:30-09:45                                                                                                                                                                                                  | IFEDC202620957<br>Numerical Simulation Study on Fracture Propagation in Conglomerate Reservoir Fracturing Based on Large-Scale Physical Modeling Experiments<br>Zhang Yupeng, Engineering Research Institute, PetroChina Xinjiang Oilfield Company   |
| 09:45-10:00                                                                                                                                                                                                  | IFEDC202622860<br>Study on Hydraulic Fracture Propagation Behavior in Multi-Lithology Composite Reservoirs<br>Niu Tianyu, School of Petroleum Engineering, China University of Petroleum (East China)                                                |
| 10:00-10:30                                                                                                                                                                                                  | <b>Coffee Break and E-poster Seminars for Sharing</b>                                                                                                                                                                                                |

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| 10:30-10:50 | <p>IFEDC202621970</p> <p>Research on Supporting Fracturing Technology for Efficient Development of Pebbly Sandstone Reservoirs</p> <p>Liang Yuzhu, Sinopec Shengli Oilfield Company Limited</p>                                                                 |
| 10:50-11:10 | <p>IFEDC202621365</p> <p>Evaluation experiment and Field application of wide-mesh sand for coal and rock gas fracturing</p> <p>Wujun, China National Petroleum Corporation Jidong Oilfield Production Institute</p>                                             |
| 11:10-11:30 | <p>IFEDC202620656</p> <p>Research on the Degradation Performance and Applicability of Degradable Cloth Acid Tools Materials for Uniform Acidification at Sea</p> <p>Wang Yuxin, School of Petroleum Engineering, China University of Petroleum (East China)</p> |
| 11:30-11:45 | <p>IFEDC202621945</p> <p>Optimization of Proppant Gradation in Tight Oil Fracturing-A Case Study of the Dingbian Luopangyuan Area</p> <p>Li Lu, CCDC Changqing Downhole technology company</p>                                                                  |
| 11:45-12:00 | <p>IFEDC202622973</p> <p>Numerical Investigation of Cross-Layer Hydraulic Fracture Propagation in Marine Natural Gas Hydrate Reservoirs</p> <p>Zhou Wang, School of Petroleum Engineering</p>                                                                   |
| 12:00-14:00 | <p><b>Buffet Lunch and Break</b></p>                                                                                                                                                                                                                            |

## Session 9

## Meeting Room 9, 2F

### Oil & Gas Production Technology and Intelligent Regulation

Co-organized by: Oil Production Technology Research Institute, Daqing Oilfield Limited Company, CNPC

Convener: Song Xingliang, Oil Production Technology Research Institute, Daqing Oilfield Limited Company, CNPC, Assistant to the Dean

Date: 16-18 September, 2026

| 16 September 2026 (p.m.)                                                                                                                                                                                                                   |                                                                                                                                                                                                                                                                                         |
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| <b>Host:</b><br><b>Song Xingliang, Oil Production Technology Research Institute, Daqing Oilfield Limited Company, CNPC, Assistant to the Dean,</b><br><b>Huang Hai, Graduate School of Xi'an Shiyou University, Professor and Director</b> |                                                                                                                                                                                                                                                                                         |
| 14:00-14:20                                                                                                                                                                                                                                | Invited Presentation<br>Development and application of Cable-Controlled Multi-Zone Injection Technology<br>Zhu Zhenkun, Daqing Oilfield Drilling and Production Technology Research Institute, Technical Expert                                                                         |
| 14:20-14:40                                                                                                                                                                                                                                | Invited Presentation<br>Research and Application on the Bidirectional Transmission Method of Electromagnetic Waves Based on Intelligent Water Injection<br>Yang Zhiqiang, China Electronics Technology Group Corporation No.22 Research Institute, Deputy Chief Engineer and Researcher |
| 14:40-15:00                                                                                                                                                                                                                                | Invited Presentation<br>Technical Progress and Further Research Directions of Downhole Oil-Water Separation and In Well Injection Production Technology<br>Zheng Guoxing, Daqing Oilfield Drilling and Production Technology Research Institute, First-Level Engineer                   |
| 15:00-15:20                                                                                                                                                                                                                                | IFEDC202620933<br>Exploration and Application of Wax Removal and Prevention Technology for Injection and Production in the Same Well<br>Zhu Xiufeng, No. 8 Oil Production Plant of Daqing Oilfield Co.,Ltd., Senior Engineer                                                            |

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| 15:20-15:40                            | <p>IFEDC202620601</p> <p>Development and Application of a New Type of Adjustable Partial Pressure Tool for Chemical Flooding</p> <p>Wang Chao, Daqing Oilfield Production Technology Institute</p>                         |
| 15:40-16:00                            | <p>IFEDC202622061</p> <p>From Empirical Dosing To Production Optimization: A Machine Learning Framework For HeavyCrude Emulsion Control</p> <p>Israel Arias González, Mitrachem S.A. de C.V., Chief Technology Officer</p> |
| 16:00-16:30                            | <p><b>Coffee Break and E-poster Seminars for Sharing</b></p>                                                                                                                                                               |
| 16:30-16:50                            | <p>Invited Presentation</p> <p>BiSn-based Low-Melting-Point Alloy Underground Sealing Material</p> <p>Fu Zhiqiang, China University of Geosciences (Beijing), Professor</p>                                                |
| 16:50-17:10                            | <p>Invited Presentation</p> <p>Research and Development of Microbial Agents for Well Stimulation in Oilfields</p> <p>Ren Guoling, Daqing Normal University, Director and Professor</p>                                     |
| 17:10-17:30                            | <p>Invited Presentation</p> <p>Research Progress on Chemical Profile Control Technology in Daqing Oilfield</p> <p>Li Guo, Daqing Oilfield Drilling and Production Technology Research Institute, Technical Expert</p>      |
| 17:30-17:45                            | <p>IFEDC202621804</p> <p>Temperature Resistance of Enhanced Polyacrylamide Hydrogels for Heterogeneous Reservoir Profile Control</p> <p>Wang Shunhui, Southwest Petroleum University, Associate Professor</p>              |
| 17:45-18:00                            | <p>IFEDC202621081</p> <p>Analysis of Influencing Factors and Countermeasures of System Efficiency of Low Liquid Production Wells</p> <p>Teng Rui, No. 8 Oil Production Plant of Daqing Oilfield</p>                        |
| 18:30-20:30                            | <p><b>Excellent Paper Award Ceremony (Large Conference Hall, 1F )</b></p>                                                                                                                                                  |
| <p><b>17 September 2026 (a.m.)</b></p> |                                                                                                                                                                                                                            |

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| <b>Host:</b><br><b>Fu Zhiqiang, China University of Geosciences, Beijing, Professor</b><br><b>Gao Qinghua, Research Institute of Yanchang Petroleum (Group) Co. Ltd., Professor-level Senior Engineer, Conference Review Experts</b> |                                                                                                                                                                                                                                                              |
| 08:30-08:50                                                                                                                                                                                                                          | Invited Presentation<br>Insights and Prospect on the Combined Recovery of Heavy Oil, Gas (CO <sub>2</sub> ) and Agent<br>Wang Chunsheng, Northeast Petroleum University, Professor                                                                           |
| 08:50-09:10                                                                                                                                                                                                                          | IFEDC202620867<br>Practice of Dual-Fluid-Mobility Control Technology in Heterogeneous Heavy Oil Reservoirs<br>Xiong Ying, Dagang Oilfield Company, PetroChina, Professor-Level Senior Engineer                                                               |
| 09:10-09:30                                                                                                                                                                                                                          | IFEDC202620925<br>Simulation Study on Horizontal Well Huff and Puff Energy Supplement and Production Increase<br>Gao Qinghua, Research Institute of Shaanxi Yanchang Petroleum (Group) Co., Professor-Level Senior Engineer                                  |
| 09:30-09:45                                                                                                                                                                                                                          | IFEDC202620816<br>Field Practice of Gas Injection for Liquid Lock Removal in Well XX, Tazhong I Gas Field<br>Lin Ruopeng, China Petroleum Tarim Oilfield Branch                                                                                              |
| 09:45-10:00                                                                                                                                                                                                                          | IFEDC202622808<br>Microscopic Simulation Study and Field Test of Solid-Phase Nano Oil Displacement System in Offshore Low Permeability Reservoir<br>Feng Qing, China Oilfield Services Limited Oilfield Production Optimization Institution, Senior Engineer |
| 10:00-10:30                                                                                                                                                                                                                          | <b>Coffee Break and E-poster Seminars for Sharing</b>                                                                                                                                                                                                        |
| 10:30-10:50                                                                                                                                                                                                                          | IFEDC202622677<br>Simulation and Experimental Study on the Series Twin-screw System of Submersible Progressive Cavity Pump<br>Chen Bin, CNOOC (China) Tianjin Branch, Senior Engineer                                                                        |

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| 10:50-11:10                                                                                                                                                     | <p>IFEDC202621224</p> <p>An Intelligent Diagnostic Method for Oil Pump Indicator Diagrams Based on VGGNet and Engineering Feature Fusion</p> <p>Zhao Jiliang, No.2 Oil Production Plant of Daqing Oilfield Co.,Ltd., Director</p>  |
| 11:10-11:30                                                                                                                                                     | <p>IFEDC202621853</p> <p>Research on Digital Twin Control System for Intermittent Production Wells</p> <p>Wang Cai, RIPED PetroChina, Senior Engineer</p>                                                                          |
| 11:30-11:45                                                                                                                                                     | <p>IFEDC202621489</p> <p>A Time Series-Based Algorithm for Electric Submersible Pump Operating Condition Diagnosis</p> <p>Wang Jingxin, PetroChina Huabei Oilfield Digital and Intelligent Technology Company, Senior Engineer</p> |
| 11:45-12:00                                                                                                                                                     | <p>IFEDC202621351</p> <p>Mechanism of Paraffin Deposition and Dynamic Methods for Paraffin Removal Application and Promotion</p> <p>Wu Qingfeng, Daqing Oilfield Co., Ltd. No. 2 Oil Production Plant</p>                          |
| 12:00-14:00                                                                                                                                                     | <p><b>Buffet Lunch and Break</b></p>                                                                                                                                                                                               |
| <p><b>17 September 2026 (p.m.)</b></p>                                                                                                                          |                                                                                                                                                                                                                                    |
| <p><b>Host:</b></p> <p><b>Wang Chunsheng, Northeast Petroleum University, Professor</b></p> <p><b>Yao Liming, Harbin Institute of Technology, Professor</b></p> |                                                                                                                                                                                                                                    |
| 14:00-14:20                                                                                                                                                     | <p>Invited Presentation</p> <p>Application of Additive Manufacturing Technology in the Petroleum and Petrochemical Industry</p> <p>Yao Liming, Harbin Institute of Technology, Professor</p>                                       |
| 14:20-14:40                                                                                                                                                     | <p>IFEDC202621477</p> <p>A New Online Calibration Method for Downhole RTU</p> <p>Xie Ronghua, PetroChina Daqing Oilfield, Professor-Level Senior Engineer</p>                                                                      |

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| 14:40-15:00 | <p>IFEDC202621762</p> <p>Early Diagnosis of Wellbore Restriction in Deep Gas Wells Driven by the Synergy of Normalized Pressure Drop and Throttling Effect: A Case Study of WellX in the Sichuan Basin</p> <p>Ye Cuilian, Etroleum Engineering Technology Research Institute of Sinopec Southwest Oil &amp; Gas Company, Senior Engineer</p> |
| 15:00-15:20 | <p>IFEDC202620731</p> <p>Multiphase Flow Wellhead Measurement and Original Well Site Dehydration Analysis in Yanchang Oilfield</p> <p>Qi Xiaoxia, Wuqi Oilfield of Yanchang Petroleum Co., Ltd., Senior Engineer</p>                                                                                                                         |
| 15:20-15:40 | <p>IFEDC202622586</p> <p>Study of the Temperature's Influence on the Critical Flow Velocity for Packer Element Setting under High Annular Flow Rate</p> <p>Wei Ruitao, China Oilfield Services Ltd. Tianjin Branch</p>                                                                                                                       |
| 15:40-16:00 | <p>IFEDC202622009</p> <p>Research And Application of Diversified Paraffin Removal And Prevention Technology for Low-Pressure Lost-Circulation Wells in Mahu Oilfield</p> <p>Zhang Xiao, Baikouquan Oil Production Plant, Xinjiang Oilfield Company</p>                                                                                       |
| 16:00-16:30 | <p><b>Coffee Break and E-poster Seminars for Sharing</b></p>                                                                                                                                                                                                                                                                                 |
| 16:30-16:50 | <p>IFEDC202622085</p> <p>Research on Well Selection Technology and Supporting Processes for Negative Pressure Gas Production</p> <p>Hong Yinghe, Oil and Gas Technology Research Institute of PetroChina Southwest Oil and Gasfield Comoany, Senior Engineer</p>                                                                             |
| 16:50-17:10 | <p>IFEDC202623029</p> <p>An Approach to Managing a Gas-Condensate Field to Increase Condensate Recovery Whilst Maintaining a Fixed Gas Production Rate</p> <p>Azat A Gimazov, Gazprom Group</p>                                                                                                                                              |
| 17:10-17:30 | <p>IFEDC202620612</p> <p>Experimental Study on Applicability Limits of Solid Foaming Agent for Drainage Gas Recovery Technology</p> <p>Zhang Ting, Engineering Technology Research Institute, PetroChina Southwest Oil &amp; Gasfield Company, Senior Engineer</p>                                                                           |

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| 17:30-17:45                                                                                                                                                  | <p>IFEDC202621123</p> <p>Numerical Simulation Study on Development Mechanism of Bottom Watercondensate Gas Reservoir</p> <p>Gao Yufeng, PetroChina Huabei Oilfield Company</p>                                                                                                                    |
| 17:45-18:00                                                                                                                                                  | <p>IFEDC202621138</p> <p>A Study on the Multi-Parameter Response Mechanisms and Optimization Strategies for Wellhead Pressure Reduction in Shale Gas Wells: A CN Block Case Study</p> <p>Chen Yi, Oil and Gas Technology Research Institute, PetroChina Southwest Oil &amp; Gasfield Company</p>  |
| 18:30-20:30                                                                                                                                                  | <b>Buffet Dinner</b>                                                                                                                                                                                                                                                                              |
| <b>18 September 2026 (a.m.)</b>                                                                                                                              |                                                                                                                                                                                                                                                                                                   |
| <p><b>Host:</b></p> <p><b>Ren Guoling, Daqing Normal University, Dean and Professor</b></p> <p><b>Zhu Chaofan, Jilin University, Associate Professor</b></p> |                                                                                                                                                                                                                                                                                                   |
| 08:30-08:50                                                                                                                                                  | <p>Invited Presentation</p> <p>Local Chemical In-Situ Conversion Technology and Pilot Tests</p> <p>Zhu Chaofan, Jilin University, Associate Professor</p>                                                                                                                                         |
| 08:50-09:10                                                                                                                                                  | <p>IFEDC202620681</p> <p>Application Research and Practice of Coiled Tubing Workover Technology</p> <p>Chi Hongtao, No.8 Oil Production Plant of Daqing Oilfield Co., Ltd., Senior Engineer</p>                                                                                                   |
| 09:10-09:30                                                                                                                                                  | <p>IFEDC202622191</p> <p>Technical Practice and Development Recommendations for Water Plugging in Tahe Fractured-Vuggy Carbonate Reservoirs</p> <p>Qinfei, China University of Petroleum (East China); SINOPEC Northwest Company of China Petroleum and Chemical Corporation, Oilfield Expert</p> |
| 09:30-09:45                                                                                                                                                  | <p>IFEDC202622598</p> <p>Thermal Compensation Mechanism in Laboratory-Scale Methane Hydrate Dissociation under Combined Depressurization and Thermal Stimulation</p> <p>Xiong Hongwu, State Key Laboratory of Intelligent Deep Metal Mining and Equipment, Northeastern University</p>            |

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| 09:45-10:00 | <p>IFEDC202621225</p> <p>Research and Application of Supporting Technologies for Precise Parameter Adjustment in the Late Stages of Mature Oilfield Development</p> <p>Cao Cundong, No.2 Oil Production Plant of Daqing Oilfield Co., Ltd.</p>                                                               |
| 10:00-10:30 | <p><b>Coffee Break and E-poster Seminars for Sharing</b></p>                                                                                                                                                                                                                                                 |
| 10:30-10:45 | <p>IFEDC202622244</p> <p>Preparation and Performance Evaluation of Micro-Scale Solid Core Particle Profile Control Chemical for High Water Cut Offshore Oilfield</p> <p>Xu Guorui, China Oilfield Services Ltd. (COSL Production Optimization)</p>                                                           |
| 10:45-11:00 | <p>IFEDC202622743</p> <p>Research and Application of MphaseSim Steady-State Flow Simulator for Oil and Gas Wellbores</p> <p>Sun Yuxun, China University of Petroleum (Beijing)</p>                                                                                                                           |
| 11:00-11:15 | <p>IFEDC202622416</p> <p>Ultrasound Intensified Thermochemical Demulsification of Crude Oil Emulsions under High Water Cut Conditions</p> <p>Liu Mengli, China University of Petroleum (East China)</p>                                                                                                      |
| 11:15-11:30 | <p>IFEDC202622924</p> <p>Experimental Study on Enhanced Recovery by Gas Injection and Revaporization in Condensate Gas Reservoirs</p> <p>Tu Yuanzhuo, Sinopec Zhongyuan Oilfield Company</p>                                                                                                                 |
| 11:30-11:45 | <p>IFEDC202620565</p> <p>Energy Consumption Optimization of Natural Gas Sweetening Unit by Plackett-Burman Design and Response Surface Methodology</p> <p>Yin Xiaoyun, Safety, Environment and Technology Supervision Research Institute of PetroChina Southwest Oil and Gas Field Company, Postdoctoral</p> |
| 11:45-12:00 | <p>IFEDC202621548</p> <p>Study on Salting Out Regulation and Plugging Characteristics of a High-Temperature Induced Calcium Salt Precipitation System</p> <p>Cheng Qian, China University of Petroleum (East China)</p>                                                                                      |
| 12:00-14:00 | <p><b>Buffet Lunch and Break</b></p>                                                                                                                                                                                                                                                                         |

## Session 10

## Meeting Room 5, 1F

### Chemical Flooding and Gas Displacement Technology

Co-organized by: Shengli Oilfield Branch Company, China Petroleum & Chemical Corporation;  
Changqing Oilfield Branch Company, China National Petroleum Corporation

Convener: Shu Qinglin, China Petroleum & Chemical Corporation, Senior Expert in Oil and Gas  
Development

GaoChunning, Changqing Oilfield Branch Company, China National Petroleum Corporation,  
Chief Expert

Date: 16-17 September, 2026

| 16 September 2026 (p.m.)                                                                                                                                                                                                            |                                                                                                                                                                                                                                                                         |
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| <b>Host:</b><br><b>Guo Hun, Quality Inspection and Analytical Testing Research Center, Henan Academy of Sciences, Researcher, Conference Review Experts</b><br><b>Xu Xuejuan, CNOOC (China) Tianjin Branch, EOR Senior Engineer</b> |                                                                                                                                                                                                                                                                         |
| 14:00-14:20                                                                                                                                                                                                                         | IFEDC202621769<br>Optimum Viscosity Determination for Polymer Flooding in L Oilfield<br>Wang Haigeng, Tianjin Branch of CNOOC Ltd., Senior Engineer                                                                                                                     |
| 14:20-14:40                                                                                                                                                                                                                         | IFEDC202622303<br>Next-Gen Polymer Flooding: Deploying Delayed Viscosity Polymers in Shengli's Gudao Field<br>Franck Kayser, Project Manager, SNF (China) Flocculant Co., Ltd.                                                                                          |
| 14:40-15:00                                                                                                                                                                                                                         | IFEDC202621150<br>Study on Microscopic Seepage Characteristics of Heavy Oil During Huff and Puff with Gas-Assisted Viscosity Reducer<br>Bin Zou, China University of Petroleum (East China), Senior Engineer                                                            |
| 15:00-15:20                                                                                                                                                                                                                         | IFEDC202620639<br>Application of Targeted Oil Displacement Technology in Low-Permeability Reservoirs: A Case Study of the Y19 Reservoirs<br>Shangguan Yangnan, Exploration and Development Research Institute of PetroChina Changqing Oilfield Company, Senior Engineer |

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| 15:20-15:40 | <p>IFEDC202621593</p> <p>Development Characteristics and Response Mechanisms of CO<sub>2</sub> Miscible Flooding in Low-Permeability Reservoirs</p> <p>Yang ZhiKai, Chunliang Oil Production Plant, Sinopec Shengli Oilfield Company</p>                                                                 |
| 15:40-16:00 | <p>IFEDC202621751</p> <p>Optimization of Injection Parameters for Microgel Particles/Polymer Heterogeneous Combination Flooding</p> <p>Chen Yingjie, China University of Petroleum (East China)</p>                                                                                                      |
| 16:00-16:30 | <p><b>Coffee Break and E-poster Seminars for Sharing</b></p>                                                                                                                                                                                                                                             |
| 16:30-16:50 | <p>IFEDC202622701</p> <p>Study on Seepage Behavior and Quantitative Modeling of Polymer Flooding Under Coupled Effects of Screen Size and Injection Rate</p> <p>Xu Xuejuan, CNOOC China Tianjin Branch, EOR Senior Engineer</p>                                                                          |
| 16:50-17:10 | <p>IFEDC202622160</p> <p>Dynamic Evolution Law of Oil-Water Relative Permeability in Tight Sandstone Under High-Pressure Injection</p> <p>Yuan Kaitao, Department of Geology, Northwest University, Senior Engineer</p>                                                                                  |
| 17:10-17:30 | <p>IFEDC202621086</p> <p>Study on the Synergistic Effect of Dynamic Water-Alternating-Gas Parameters on Oil Displacement and Storage in CO<sub>2</sub> Flooding</p> <p>Li Xiao, Exploration and Development Research Institute of Shengli Oilfield Company, Sinopec</p>                                  |
| 17:30-17:45 | <p>IFEDC202623038</p> <p>Experimental Investigation of the Impact of Stabilized Emulsion on Enhanced Oil Recovery in Sandstone Reservoirs</p> <p>Masoud Riazi, Nazarbayev University</p>                                                                                                                 |
| 17:45-18:00 | <p>IFEDC202620696</p> <p>Research and Field Application of Integrated Treatment Technology for Condensate Blockage in Condensate Gas Well</p> <p>Zheng Lichen, Ultra-deep Complex Oil and Gas Reservoir Exploration and Development Technology Research Center, China National Petroleum Corporation</p> |
| 18:30-20:30 | <p><b>Excellent Paper Award Ceremony (Large Conference Hall, 1F )</b></p>                                                                                                                                                                                                                                |

| 17 September 2026 (a.m.)                                                                                                                                                                                                           |                                                                                                                                                                                                                                                                                  |
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| <b>Host:</b><br><b>GaoChunning, Changqing Oilfield Branch Company, China National Petroleum Corporation, Chief Expert, the Convener of This Venue</b><br><b>Qin Fei, Sinopec Group Northwest Petroleum Branch, Oilfield Expert</b> |                                                                                                                                                                                                                                                                                  |
| 08:30-08:50                                                                                                                                                                                                                        | IFEDC202621271<br>Study on Nitrogen Microbubble Flooding for Enhanced Oil Recovery and Its Adaptability Evaluation<br>He Lingpu, PetroChina Changqing Oilfield Company, Senior Engineer                                                                                          |
| 08:50-09:10                                                                                                                                                                                                                        | IFEDC202622480<br>Study and Application of Operating System Optimization Method for Reduced Oxygen Air Foam Flooding: A Case Study of the Chang 6 Reservoir in Ganyizi Oilfield<br>Shang Qinghua, Research Institute of Yanchang Petroleum (Group) Co., Ltd., Senior Engineer    |
| 09:10-09:30                                                                                                                                                                                                                        | IFEDC202623041<br>Low Tension Gas Flooding: From Laboratory Studies To Pilot<br>Pavel Belovus, Gazpromneft NTC                                                                                                                                                                   |
| 09:30-09:45                                                                                                                                                                                                                        | IFEDC202622798<br>Parameter Optimization of Nitrogen Foam Flooding in Ultra-Low Permeability Reservoirs Based on Laboratory Experiments and Orthogonal Simulation<br>Gao Zhuolin, Research Institute of Yanchang Petroleum Group                                                 |
| 09:45-10:00                                                                                                                                                                                                                        | IFEDC202622555<br>Experimental Study on the Reduction of CO <sub>2</sub> Flooding Miscible Pressure by Hydrocarbon Surfactants<br>Zhao Jiawei, China University of Petroleum (East China)                                                                                        |
| 10:00-10:30                                                                                                                                                                                                                        | <b>Coffee Break and E-poster Seminars for Sharing</b>                                                                                                                                                                                                                            |
| 10:30-10:50                                                                                                                                                                                                                        | IFEDC202622115<br>Experimental Study on CO <sub>2</sub> Injection for Enhancing Recovery in tight conglomerate reservoirs of Upper Urho Formation in Mahu Well Block 1.<br>Wang Qixiang, PetroChina Research Institute of Exploration and Development, Xinjiang Oilfield Company |

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| 10:50-11:10                                                                                                                                                                                                                | <p>IFEDC202621989</p> <p>Study On Enhanced Oil Recovery And Carbon Sequestration Effects of Supercritical-CO<sub>2</sub> Fracturing in Low-permeability Reservoirs</p> <p>Xu Tianhan, Daqing Oilfield Exploration &amp; Development Research Institute, CNPC</p>                              |
| 11:10-11:30                                                                                                                                                                                                                | <p>IFEDC202622134</p> <p>The Adsorption Study of Short Hydrophobe Extended Anionic Surfactant at the Polymethyl Methacrylate–Solution Interface</p> <p>Wang Chenguang, China University of Petroleum (East China)</p>                                                                         |
| 11:30-11:45                                                                                                                                                                                                                | <p>IFEDC202600907</p> <p>Silica Nanoparticle-Assisted Demulsification for Oil–Water Separation in Refinery Wastewater Treatment Sagidull in Zhanibek</p> <p>Kazakh-British Technical University (KBTU), Almaty, Kazakhstan</p>                                                                |
| 11:45-12:00                                                                                                                                                                                                                | <p>IFEDC202622121</p> <p>Effects of Polyether Surfactants with Hydrophilic Groups on CO<sub>2</sub> Breakthrough in Aqueous Barriers: Insights from Molecular Dynamics Simulations</p> <p>Zhang Huan, China University of Petroleum (East China)</p>                                          |
| 12:00-14:00                                                                                                                                                                                                                | <p><b>Buffet Lunch and Break</b></p>                                                                                                                                                                                                                                                          |
| <p><b>17 September 2026 (p.m.)</b></p>                                                                                                                                                                                     |                                                                                                                                                                                                                                                                                               |
| <p><b>Host:</b></p> <p><b>Liu Huaizhu, PetroChina Jidong Oilfield Company, Professor-level Senior Engineer, Conference Review Experts</b></p> <p><b>Mao Zhenqiang, Sinopec Shengli Oilfield Company, Senior Expert</b></p> |                                                                                                                                                                                                                                                                                               |
| 14:00-14:20                                                                                                                                                                                                                | <p>IFEDC202621068</p> <p>Laboratory Evaluation of Heavy Crude Oil Displacement Effectiveness by A Micromodel Approach</p> <p>Chen Shaohua, Aramco Asia - Beijing Research Center</p>                                                                                                          |
| 14:20-14:40                                                                                                                                                                                                                | <p>IFEDC202621609</p> <p>Study on the Long-term Enhanced Oil Recovery Mechanism of Enhanced Viscosity-Reducing Composite Foam in Continental Facies Strongly Heterogeneous Ultra-deep Heavy Oil Reservoirs</p> <p>Zou Chenglin, Lukeqin Oil Production Plant, Tuha Oilfield Company, CNPC</p> |

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| 14:40-15:00 | <p>IFEDC2026216901</p> <p>Molecular Dynamics Simulation of the Viscosity-Contributing Mechanism of Heavy Fractions in Heavy Oil</p> <p>Yuan Haoqiang, China University of Petroleum</p>                                                                                                        |
| 15:00-15:15 | <p>IFEDC202621671</p> <p>Research and Application of “Dual-Drive-Drainage” Enhanced Oil Recovery Technology in Unconformity Heavy Oil Reservoirs</p> <p>Mao Jinxin, Chengdu University of Technology</p>                                                                                       |
| 15:15-15:30 | <p>IFEDC202621348</p> <p>Research on the Application of Synergistic Technology of Oilfield Chemical Profile Control and Viscosity Reduction in the Development of Heavy Oil in Ji7 Well Area</p> <p>Qin Jiamin, Jiqing Oilfield Operation Area, Xinjiang Oilfield Company</p>                  |
| 15:30-15:45 | <p>IFEDC202621497</p> <p>Optimization of Injection Parameters for Polymer Flooding in Offshore Horizontal Wells Under Pressure Constraints Based on SLSQP Algorithm</p> <p>Dong Liyuan, CNOOC Energy Technology &amp; Services-Engineering &amp; Technology Services Co.</p>                   |
| 15:45-16:00 | <p>IFEDC202621984</p> <p>Evaluation of The Development Effect of N<sub>2</sub> Assisted Viscosity Reducer Huff-n-Puff under Different Injection Methods</p> <p>Zhao Xirui, China University of Petroleum (East China)</p>                                                                      |
| 16:00-16:30 | <p><b>Coffee Break and E-poster Seminars for Sharing</b></p>                                                                                                                                                                                                                                   |
| 16:30-16:45 | <p>IFEDC202622616</p> <p>Research on Optimal Design of Injection Slug for Early Chemical Flooding in Conventional Heavy Oil Reservoirs</p> <p>Huang Wei, Research Institute of Exploration and Development, Huabei Oilfield Company, China National Petroleum Corporation, Senior Engineer</p> |
| 16:45-17:00 | <p>IFEDC202622027</p> <p>Structural-Selective Regulation of the Oil–Water Interfacial Tension Window and Emulsion Phase Behavior by Poly (ethylene oxide)/Poly (propylene oxide) Block Length</p> <p>Qu jiepeng, China Petroleum Exploration and Development Research Institute</p>            |

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| 17:00-17:15 | <p>IFEDC202621911</p> <p>Performance Evaluation and Parameter Optimization of Composite Diverting Systems for In-fracture Diversion in Tahe Oilfield</p> <p>Zhang Zhaonian, School of Petroleum Engineering, China University of Petroleum (East China)</p>                   |
| 17:15-17:30 | <p>IFEDC202621903</p> <p>Performance Evaluation of Zr-doped Dendritic Mesoporous Silica Nanofluid Oil-displacing System for High-temperature and High-salinity Reservoirs</p> <p>Zhang Yu, China University of Petroleum (East China)</p>                                     |
| 17:30-17:45 | <p>IFEDC202621013</p> <p>Study on the Microscopic Migration Characteristics of Crude Oil Following CO<sub>2</sub> Flooding and Water Flooding in Tight Sandstone Reservoirs</p> <p>Xue Junjie, Oil and Gas Technology Institute of Changqing Oilfield Company, PetroChina</p> |
| 17:45-18:00 | <p>IFEDC202622091</p> <p>Synthesis of Novel Amphiphilic Janus Nano-Silica Particles Through Microfluidic Technology</p> <p>Wang Zheng, China University of Petroleum (East China)</p>                                                                                         |
| 18:30-20:30 | <p><b>Buffet Dinner</b></p>                                                                                                                                                                                                                                                   |

## Session 11

## Meeting Room 11, 2F

### Shale (Tight) Oil & Gas Exploration and Development

Co-organized by: Daqing OILFIELD Limited Company

Convener: Cui Baowen, Daqing OILFIELD Limited Company, Technical Consultant

Date: 16-18 September, 2026

| 16 September 2026 (p.m.)                                                                                                                                                                                                                                           |                                                                                                                                                                                                                                                                                         |
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| <b>Host:</b><br><b>Cui Baowen, Daqing Oilfield Limited Company, Technical Consultant, the Convener of This Venue</b><br><b>Sun Xiping, Research Institute of Petroleum Exploration and Development, Professor-level Senior Engineer, Conference Review Experts</b> |                                                                                                                                                                                                                                                                                         |
| 14:00-14:20                                                                                                                                                                                                                                                        | IFEDC2026216908<br>Productivity and Development Technology Policy of Deep High-Pressure Fault-Fold Fractured Tight Sandstone Gas Reservoir<br>Liu Hua, Petroleum Exploration and Production Research Institute, Sinopec, Researcher                                                     |
| 14:20-14:40                                                                                                                                                                                                                                                        | IFEDC202622738<br>Early-Flowback Productivity Evaluation and Application for Deep Shale Gas Wells in the Luzhou Block<br>Mei Zilai, Research Institute of Geological Exploration and Development, Chuanqing Drilling Engineering Co., Ltd., PetroChina                                  |
| 14:40-15:00                                                                                                                                                                                                                                                        | IFEDC202622784<br>Research and Application of High-Fidelity and High-Resolution Seismic Processing Technology for Tight Gas Reservoirs in the Ordos Basin<br>Li Fei, Exploration and Development Research Institute, PetroChina Changqing Oilfield Co., Professor-Level Senior Engineer |

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| 15:00-15:20 | <p>IFEDC202621663</p> <p>Simulation Study on Elastic Development Mechanism and Influencing Factors of Shale oil Reservoirs in Jiyang Depression</p> <p>Chen Jianxun, Exploration and Development Research Institute of Shengli Oilfield Company, Doctor</p> |
| 15:20-15:40 | <p>IFEDC2026218181</p> <p>Research and Application of a Transformer–XGBoost-Based Hybrid Model for Hydraulic Fracturing Performance Prediction in Shale Oil Reservoirs</p> <p>Lin Boyang, CNPC Engineering Technology R&amp;D Company Limited</p>           |
| 15:40-16:00 | <p>IFEDC202621137</p> <p>Practice and Theory of Three-Dimensional Development for Jiyang Shale Oil in Shengli Oilfield</p> <p>Yang Yuxuan, School of Petroleum Engineering, China University of Petroleum(East China)</p>                                   |
| 16:00-16:30 | <p><b>Coffee Break and E-poster Seminars for Sharing</b></p>                                                                                                                                                                                                |
| 16:30-16:50 | <p>IFEDC202620625</p> <p>Thermophysical behavior by the pyrolysis of low-maturity shale oil to hydrocarbons</p> <p>Wan Tao, China University of Petroleum (Beijing) at karamay, Professor</p>                                                               |
| 16:50-17:10 | <p>IFEDC202621299</p> <p>Desorption Mechanism of Deep Shale Gas in Southern Sichuan</p> <p>Wu Jianfa, Shale Gas Research Institute, Southwest Oil &amp; Gas Field Company, PetroChina, Dean</p>                                                             |
| 17:10-17:30 | <p>IFEDC202622570</p> <p>Prediction of Permeability in Tight Sandstone Reservoirs Based on the Hyperopt-GBRT Method</p> <p>Liu Haojun, Xi'an Shiyou University, Associate Professor</p>                                                                     |
| 17:30-17:45 | <p>IFEDC202622375</p> <p>An Approach Estimate Permeability in Principle of Unstable Gas-Seepage Flow under High Pressure Pulse Decay</p> <p>Li Qi, CNOOC EnerTech-Drilling &amp; Production Co.</p>                                                         |

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| 17:45-18:00                                                                                                                                                                                         | <p>IFEDC202621572</p> <p>Research on Fracturing Fluid Damage Characteristics of Tight Reservoir in Western Qaidam Basin</p> <p>Liao Hao, Southwest Petroleum University</p>                                                                                |
| 18:30-20:30                                                                                                                                                                                         | <p><b>Excellent Paper Award Ceremony (Large Conference Hall, 1F )</b></p>                                                                                                                                                                                  |
| <p><b>17 September 2026 (a.m.)</b></p>                                                                                                                                                              |                                                                                                                                                                                                                                                            |
| <p><b>Host:</b></p> <p><b>Jia Ying, Petroleum Exploration and Production Research Institute, Sinopec, Researcher</b></p> <p><b>Wan Tao, China University of Petroleum at Karamay, Professor</b></p> |                                                                                                                                                                                                                                                            |
| 08:30-08:45                                                                                                                                                                                         | <p>IFEDC202622482</p> <p>Research on Fracture Characteristics Analysis and Intelligent Prediction Method of Stimulated Reservoir Volume in Tight Gas Fracturing</p> <p>Zhou Longgang, CNOOC Energy Tech-Drilling &amp; Production Co., Senior Engineer</p> |
| 08:45-09:00                                                                                                                                                                                         | <p>IFEDC202622397</p> <p>Research on the Consistency Between Post-Fracturing Coring and Fracture Monitoring via Microseismic in Shale Oil Hydraulic Fracturing Test Sites</p> <p>Lin He, BGP, Senior Engineer</p>                                          |
| 09:00-09:15                                                                                                                                                                                         | <p>IFEDC202622394</p> <p>Quantitative Characterization and Evaluation for Frac Hit in Deep Shale Gas Wells</p> <p>Wan Yujin, PetroChina Research Institute of Petroleum Exploration &amp; Development, Enterprise Technical Expert</p>                     |
| 09:15-09:30                                                                                                                                                                                         | <p>IFEDC202621019</p> <p>Research and Application of Shale Natural Fracture Modeling and Seismic Fracturing Simulation Technology</p> <p>Qing Qi, Sinopec Geophysical Research Institute Co., Ltd., Senior Engineer</p>                                    |
| 09:30-09:45                                                                                                                                                                                         | <p>IFEDC202621981</p> <p>The Law of Combined Lithologic Fracture Height Propagation Based on Mine Field Well Temperature Correction</p> <p>Wang Tao, Oil and Gas Technology Research Institute, PetroChina Southwest Oil and Gas Field Company</p>         |

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| 09:45-10:00 | <p>IFEDC202622717</p> <p>A New Material Balance Method for Deep Shale Gas Considering Fracturing Fluid Retention and Abnormal High Pressure</p> <p>Li Baichen, China University of Petroleum (Beijing)</p>                                                                                  |
| 10:00-10:30 | <p><b>Coffee Break and E-poster Seminars for Sharing</b></p>                                                                                                                                                                                                                                |
| 10:30-10:45 | <p>IFEDC202621886</p> <p>Effects of Salting-Out Induced by Different Injection Media on Reservoir Physical Properties in Inter-Salt Shale Oil Reservoirs</p> <p>Wang Shuozhen, Exploration and Development Research Institute, Researcher</p>                                               |
| 10:45-11:00 | <p>IFEDC202621411</p> <p>Molecular Dynamics Simulation and Optimization Study of CO<sub>2</sub>-Responsive Functionalized Acrylamide Copolymers for Fracturing Fluids</p> <p>Fan Qiao, College of Petroleum Engineering, China University of Petroleum (East China)</p>                     |
| 11:00-11:15 | <p>IFEDC202621387</p> <p>Development and Application of a Small-Diameter Retrievable Downhole Choke for Tight Gas Wells: A Case Study of the Jinqiu Block, Tianfu Gas Field</p> <p>Li Kui, Oil &amp; Gas Technology Research Institute, PetroChina Southwest Oil &amp; Gasfield Company</p> |
| 11:15-11:30 | <p>IFEDC202622398</p> <p>Numerical Simulation of Nonlinear Seepage in Microfractured Tight Oil Reservoirs and Block-Scale Validation</p> <p>Ma Fang, Key Laboratory for Enhanced Oil &amp; Gas Recovery of the Ministry of Education, Northeast Petroleum University</p>                    |
| 11:30-11:45 | <p>IFEDC202622220</p> <p>The Influence of Organic Matter on Oil-Gas Two-Phase Flow in Shale Rocks: Integrating Experimental and Computational Approaches</p> <p>Aliya Mukhametdinova, Skolkovo Institute of Science and Technology, Leading Research Scientist</p>                          |
| 11:45-12:00 | <p>IFEDC202620758</p> <p>Fault Characteristics and Exploration Implications of the Qiongzhusi Formation in the Ziyang Area, Sichuan Basin</p> <p>Wang Yanqi, Research Institute of Petroleum Exploration and Development</p>                                                                |

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| 12:00-14:00                                                                                                                                                                                                                                                        | <b>Buffet Lunch and Break</b>                                                                                                                                                                                                                                                              |
| <b>17 September 2026 (p.m.)</b>                                                                                                                                                                                                                                    |                                                                                                                                                                                                                                                                                            |
| <b>Host:</b><br><b>Yang Yu, College of Energy, Chengdu University of Technology, Professor, Conference Review Experts</b><br><b>Wei Jianguang, Institute of Unconventional Oil &amp; Gas, Northeast Petroleum University, Professor, Conference Review Experts</b> |                                                                                                                                                                                                                                                                                            |
| 14:00-14:20                                                                                                                                                                                                                                                        | IFEDC202620744<br>Three-Property Evaluation and Sweet Spots Selection of Bazhenov Shale Formation in the Northeastern Area of the West Siberian Basin<br>Fan Leyuan, International Company of China National Logging Corporation (CNLC), Senior Engineer                                   |
| 14:20-14:40                                                                                                                                                                                                                                                        | IFEDC202622353<br>Characteristics of Natural Fracture Development in Deep Shale of the Qiongzhusi Formation in the Southern Sichuan Basin and Its Petroleum Geological Significance<br>Tian He, Shale Gas Research Institute, PetroChina Southwest Oil & Gasfield Company, Senior Engineer |
| 14:40-15:00                                                                                                                                                                                                                                                        | IFEDC202621904<br>Comprehensive Evaluation of the “Sweet Spot” for Chang 9 Tight Oil in the Middle and Southern Ordos Basin<br>Liu Zhaoyang, National Key Laboratory of Deep Oil and Gas, China University of Petroleum (East China), Professor-Level Senior Engineer                      |
| 15:00-15:15                                                                                                                                                                                                                                                        | IFEDC202622968<br>Sweet Spot Re-evaluation and High-yield Controlling Factors Analysis for Shale Oil Horizontal Wells Based on Dual-Dimension Coupling Evaluation<br>Li Hong, Xi’an Shiyou University                                                                                      |
| 15:15-15:30                                                                                                                                                                                                                                                        | IFEDC202622581<br>Intelligent Evaluation of Shale Oil Sweet Spots Using Logging Data Mining and Machine Learning: A Case Study of the Lucaogou Formation in the Jimsar Shale Oil Reservoir<br>Peng Tianhao, Petrochina Xinjiang Oilfield Company                                           |

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| 15:30-15:45 | <p>IFEDC202622040</p> <p>Differential Tectono-Sedimentary Evolution of the Wufeng-Longmaxi Formation in the Weiyuan Area, Southern Sichuan, and Its Control on Shale Gas Enrichment</p> <p>Liu Yi, Southwest Oil &amp; Gasfield Company, PetroChina</p>                                        |
| 15:45-16:00 | <p>IFEDC202621251</p> <p>Mechanical Properties and Brittleness Evaluation Method of Shale Based on a D–P Criterion-Coupled Cohesive Model</p> <p>Shangguan Ziran, School of Petroleum Engineering, Southwest Petroleum University, College Counselor</p>                                       |
| 16:00-16:30 | <p><b>Coffee Break and E-poster Seminars for Sharing</b></p>                                                                                                                                                                                                                                   |
| 16:30-16:45 | <p>IFEDC202621498</p> <p>Characteristics of Shale Oil Occurrence and Mobility Evaluation of the Fengcheng Formation in the Mahu Sag</p> <p>Xie An, College of Geosciences, China University of Petroleum (Beijing), Senior Engineer</p>                                                        |
| 16:45-17:00 | <p>IFEDC202622639</p> <p>Dynamic Optimization of Heating Strategies in Oil Shale In-Situ Conversion Based on Reinforcement Learning</p> <p>Tan Qizhi, China University of Petroleum (East China)</p>                                                                                           |
| 17:00-17:15 | <p>IFEDC202621718</p> <p>Unveiling the Dual Effect of CO<sub>2</sub> on Shale Oil Mobilization within Nanoconfined Water-Bearing Kerogen: a Molecular Dynamics Study</p> <p>Wang Bo, China University of Geosciences</p>                                                                       |
| 17:15-17:30 | <p>IFEDC202620876</p> <p>Phase Equilibrium Prediction and Micro-Nanofluidic Experiments for Shale Reservoir Fluids</p> <p>Xu Lilong, School of Petroleum Engineering -- China University of Petroleum (East China)</p>                                                                         |
| 17:30-17:45 | <p>IFEDC202622483</p> <p>Study on Formation Mechanism and Potential Tapping Methods of Microscopic Remaining Oil in Low-Permeability Tight Oil Reservoirs</p> <p>He Tairan, Key Laboratory for Enhanced Oil&amp; Gas Recovery of the Ministry of Education, Northeast Petroleum University</p> |

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| 17:45-18:00                                                                                                                                                                                           | IFEDC202622141<br>Study on the Mechanism Model of Drilling Fluid Invasion in Stratified Shale<br>Li Daigang, Lanzhou City University                                                                                                                                      |
| 18:30-20:30                                                                                                                                                                                           | <b>Buffet Dinner</b>                                                                                                                                                                                                                                                      |
| <b>18 September 2026 (a.m.)</b>                                                                                                                                                                       |                                                                                                                                                                                                                                                                           |
| <b>Host:</b><br><b>Qu Hongyan, China University of Petroleum (Beijing), Professor, Conference Review Experts</b><br><b>Liu Zhaoyang, Yanchang Oilfield Co., Ltd., Professor-Level Senior Engineer</b> |                                                                                                                                                                                                                                                                           |
| 08:30-08:45                                                                                                                                                                                           | IFEDC202623050<br>Hydrocarbon micro-migration channel identification and activity time constraint of shale series in continental faulted basin<br>Wang Xin, Exploration and Development Research Institute, Shengli Oilfield Branch Company, SINOPEC, Senior Engineer     |
| 08:45-09:00                                                                                                                                                                                           | IFEDC202621698<br>Enrichment and Exploration Direction of Tight Gas in the Shahezi Formation of Xujiaweizi Fault Depression in the Northern Songliao Basin<br>Yang Liang, Exploration and Production Research Institute, Daqing Oilfield Limited Company, Senior Engineer |
| 09:00-09:15                                                                                                                                                                                           | IFEDC202622203<br>Mechanisms of Marine Transgression-Driven Continental Shale Reservoir Formation: A Case Study of the Upper Es4 to Lower Es3 Submembers in the Dongying Depression<br>Miao Zhuowei, Sinopec Shengli Oilfield Company, Senior Engineer                    |
| 09:15-09:30                                                                                                                                                                                           | IFEDC202621743<br>Research on the Causes and Mechanisms of Lost Circulation During Drilling of the Longmaxi Formation Shale in the Northwestern Weiyuan Area<br>Ren Zhuoxin, Petro China Southwest Oil And Gasfield Company                                               |

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| 09:30-09:45 | <p>IFEDC202622559</p> <p>Multi-scale Characterization of Reservoir Pore Spaces in the Lower Es3–Upper Es4 Submember Shale, Dongying Sag</p> <p>Tian Wen, Exploration and Development Research Institute, Shengli Oilfield Branch Company, SINOPEC</p>                                                                                                                        |
| 09:45-10:00 | <p>IFEDC202622249</p> <p>Evaluation of the Performance and Effectiveness of a Novel Film-Forming Wettability-Regulating Agent for Water Blockage Mitigation in Tight Gas Reservoirs</p> <p>Li Chunyan, College of Energy (College of Modern Shale Gas Industry), Chengdu University of Technology</p>                                                                        |
| 10:00-10:30 | <p><b>Coffee Break and E-poster Seminars for Sharing</b></p>                                                                                                                                                                                                                                                                                                                 |
| 10:30-10:45 | <p>IFEDC202622223</p> <p>Differential Deformation Mechanisms and Shale Gas Accumulation Models in the Wufeng-Longmaxi Formations of the Yichang Exploration Area, Western Hubei</p> <p>Wang Pengwan, PetroChina Hangzhou Research Institute of Petroleum Geology, Senior Engineer</p>                                                                                        |
| 10:45-11:00 | <p>IFEDC202620567</p> <p>Mechanisms of Wellbore Instability and Practice of Efficient Well Construction Technology for Continental Shale Gas in the Qianfoya Formation, Puguang Area</p> <p>Gao Hong, China Petroleum &amp; Chemical Corporation (Sinopec) Zhongyuan Oilfield Company Petroleum Engineering Technology Research Institute, Associate Researcher</p>          |
| 11:00-11:15 | <p>IFEDC202621547</p> <p>Heterogeneity Characteristics of the In-Situ Stress Field in the Lianggaoshan Formation Shale, Northeastern Sichuan Basin, and Its Influence on POLIE Slip and Fracturability: Insights from Field Measurements and Numerical Simulation.</p> <p>Li Yong, Exploration and Development Research Institute of PetroChina Daqing Oilfield Co, Ltd.</p> |
| 11:15-11:30 | <p>IFEDC202621110</p> <p>Mechanical Characteristics and Prediction Method for Elastic Modulus of Shale in the Qiongzhusi Formation, Sichuan Basin</p> <p>Li Ze, PetroChina Southwest Oil and Gasfield Company</p>                                                                                                                                                            |

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| 11:30-11:45 | <p>IFEDC202623034</p> <p>Molecular Mechanisms of CO<sub>2</sub> and CH<sub>4</sub> Displacement in Shale Nanopores: A Baseline Mechanistic Study for Gas-Injection EOR in the Mahu Sag, Junggar Basin</p> <p>Desmond Asiedu Mensah, China University of Petroleum-Beijing (CUPB)</p> |
| 11:45-12:00 | <p>IFEDC202621305</p> <p>Genesis and Effectiveness of Fracturing Barrier Layers in the Q9 Oil Layer of Gulong Shale</p> <p>Wang Meng, Exploration and Development Research Institute of Daqing Oilfield Co Ltd.</p>                                                                  |
| 12:00-14:00 | <p><b>Buffet Lunch and Break</b></p>                                                                                                                                                                                                                                                 |

## Session 12

## Meeting Room 14, 2F

### Efficient Development Technology for Heavy Oil and Oil Sands

Co-organized by: Xinjiang Oilfield Branch Company, CNPC; Tianjin Branch, CNOOC (China) Co., Ltd.

Convener: Sun Xinge, Xinjiang Oilfield Branch Company, CNPC, Chief Expert

Li Yanlai, Bohai Oilfield Research Institute, CNOOC (China) Co., Ltd., Chief Reservoir

Engineer

Date: 16 September, 2026

| 16 September 2026 (p.m.)                                                                                                                                                                                                                                                          |                                                                                                                                                                                                                                                                                     |
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| <b>Host:</b><br><b>Sun Xinge, Xinjiang Oilfield Branch Company, CNPC, Chief Expert, the Convener of This Venue</b><br><b>Wang Hongzhuang, State Key Laboratory of Enhanced Oil &amp; Gas Recovery, Research Institute of Petroleum Exploration and Development, Senior Expert</b> |                                                                                                                                                                                                                                                                                     |
| 14:00-14:20                                                                                                                                                                                                                                                                       | Invited Presentation<br>Concept of Ultra-Heavy Oil SAGD Green Power Direct Connection Low-Carbon Demonstration Zone<br>Sun Xinge, China Petroleum Xinjiang Oilfield Branch, Chief Expert                                                                                            |
| 14:20-14:40                                                                                                                                                                                                                                                                       | IFEDC2026216907<br>Study on High-temperature Profile Control Technology for Cyclic Steam Stimulation Horizontal Wells in Heavy Oil Fields<br>Yan Yonghe, PetroChina Xinjiang Oilfield Company, Senior Engineer                                                                      |
| 14:40-15:00                                                                                                                                                                                                                                                                       | IFEDC202621421<br>Research on Effective Development Technology of Multi-Well Combined HDCNS for Shallow Ultra-Heavy Oil with Million-Level Viscosity in Shengli Oilfield<br>Pei Shufeng, Petroleum Engineering Research Institute of Sinopec Shengli Oilfield Company, Postdoctoral |

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| 15:00-15:20 | <p>IFEDC202621254</p> <p>Research and Application of Downhole Electric Heating Efficiency Enhancement Technology in Sinopec Shengli Oilfield</p> <p>Zhai Yong, Research Institute of Petroleum Engineering Technology, Sinopec Shengli Oilfield Company, Chief Expert</p> |
| 15:20-15:40 | <p>IFEDC202623078</p> <p>Study on the Influence Laws of Different Geological Factors on SAGD Productivity of Long Horizontal Wells in Oil Sands Reservoirs</p> <p>Sun Xiaofei, China University of Petroleum (East China), Professor, Doctoral Supervisor</p>             |
| 15:40-16:00 | <p>IFEDC202622697</p> <p>A Pilot for Downhole High-Power Electric Heating Technology in Different Style Reservoirs</p> <p>Wu Xiaoming, Sinopec Liaohe Oilfield Company</p>                                                                                                |
| 16:00-16:30 | <p><b>Coffee Break and E-poster Seminars for Sharing</b></p>                                                                                                                                                                                                              |
| 16:30-16:50 | <p>Invited Presentation</p> <p>New Advances in Low-Carbon Oil Production Technology for Heavy Oil</p> <p>Wang Hongzhuang, National Key Laboratory of Enhanced Oil Gas Recovery, Senior Expert</p>                                                                         |
| 16:50-17:10 | <p>Invited Presentation</p> <p>Characteristics of Reservoir Properties under Electric Heating Conditions</p> <p>Deng Song, Changzhou University, Professor, Doctoral Supervisor</p>                                                                                       |
| 17:10-17:30 | <p>Invited Presentation</p> <p>Feasibility Analysis of New Technologies for In-situ Upgrading of Heavy Oil</p> <p>Jiang Haiyan, Xi'an Shiyou University, Professor</p>                                                                                                    |
| 17:30-17:45 | <p>IFEDC202621017</p> <p>Calculation and Analysis of Annular Pressure in Water Injection Wells Considering Electrical Heating Conditions</p> <p>Zhao Meng, Liaohe Oilfield Company, CNPC</p>                                                                              |

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| 17:45-18:00                                                                                                                                                                                                                                                                                 | <p>IFEDC202620944</p> <p>Investigation on Emulsification Characteristics of Heavy Oil during Thermal-EOR Process And The Rheological Behavior of Its Emulsion</p> <p>Zhang Delong, China National Petroleum Corporation Daqing Oilfield Toutai Oilfield Development Co., Ltd, Senior Engineer</p> |
| 18:30-20:30                                                                                                                                                                                                                                                                                 | <p><b>Excellent Paper Award Ceremony (Large Conference Hall, 1F)</b></p>                                                                                                                                                                                                                          |
| <p><b>17 September 2026 (a.m.)</b></p>                                                                                                                                                                                                                                                      |                                                                                                                                                                                                                                                                                                   |
| <p><b>Host:</b></p> <p><b>Li Yanlai, Bohai Oilfield Research Institute, CNOOC (China) Co., Ltd., Chief Reservoir Engineer, the Convener of This Venue</b></p> <p><b>Zheng Aiping, Xinjiang Oilfield Company, PetroChina, Professor-Level Senior Engineer, Conference Review Experts</b></p> |                                                                                                                                                                                                                                                                                                   |
| 08:30-08:50                                                                                                                                                                                                                                                                                 | <p>Invited Presentation</p> <p>Enhancing Oil Recovery Rate of Heavy Oil through Deep Chemical Reaction of Hydrocarbon Release</p> <p>Li Yiqiang, China University of Petroleum (Beijing), Professor, Doctoral Supervisor</p>                                                                      |
| 08:50-09:10                                                                                                                                                                                                                                                                                 | <p>IFEDC202622589</p> <p>Numerical Simulation-Based Study on Fire Flooding Parameters for the LuKeqin Deep Heavy Oil Reservoir</p> <p>Gao Neng, State Key Laboratory of Petroleum Resources and Prospecting, China University of Petroleum (Beijing), Senior Engineer</p>                         |
| 09:10-09:30                                                                                                                                                                                                                                                                                 | <p>IFEDC202620915</p> <p>Cost-Efficiency Enhanced Recovery Technology Using MCTF (Multicomponent Thermal Fluid) for Shallow Thin-Bedded Heavy Oil Reservoirs in Henan Oilfield</p> <p>Wang Bo, Sinopec Henan Oilfield Company, Senior Engineer</p>                                                |
| 09:30-09:45                                                                                                                                                                                                                                                                                 | <p>IFEDC202621509</p> <p>Experimental Study on 2D Visualization of Remaining Oil Distribution During Steam Stimulation in Heavy Oil Reservoirs</p> <p>Zhang Dachang, School of Petroleum Engineering, China University of Petroleum (East China)</p>                                              |

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| 09:45-10:00 | <p>IFEDC202621053</p> <p>In situ decarbonization: Experimental and Numerical Study</p> <p>TatianaSaiaants, Skoltech, PhD</p>                                                                                                                                              |
| 10:00-10:30 | <p><b>Coffee Break and E-poster Seminars for Sharing</b></p>                                                                                                                                                                                                              |
| 10:30-10:45 | <p>IFEDC202622912</p> <p>Research on Generation and Stability Mechanism and Field Application of Heavy Oil CO<sub>2</sub> Foamy Oil</p> <p>Wang Yao, PetroChina Liaohe Oilfield Company, Senior Engineer</p>                                                              |
| 10:45-11:00 | <p>IFEDC202620842</p> <p>Experimental Study on Enhancing Oil Recovery through Solvent-Assisted Steam Stimulation in Heavy Oil Reservoirs</p> <p>Feng Tian, Research Institute of Petroleum Exploration &amp; Development, Researcher</p>                                  |
| 11:00-11:15 | <p>IFEDC202622322</p> <p>Enhancement Mechanism of Supercritical Carbon Dioxide and Viscosity Reducer in Deep Ultra Heavy Oil</p> <p>Lin Tao, Oilfield Production Research Institute of China Oilfield Services Limited, Senior Engineer</p>                               |
| 11:15-11:30 | <p>IFEDC202621582</p> <p>Phase Behavior and Molecular Simulation of Heavy Oil–CO<sub>2</sub> Systems</p> <p>Li Fakun, China University of Petroleum (East China)</p>                                                                                                      |
| 11:30-11:45 | <p>IFEDC202621549</p> <p>Experimental Study on Chemical Flooding for Enhanced Oil Recovery in Low-Permeability High-Pour-Point Heavy Oil Reservoirs</p> <p>Guo Fei, Exploration &amp; Development Research Institute of Liaohe Oilfield Company CNPC, Senior Engineer</p> |
| 11:45-12:00 | <p>IFEDC202621581</p> <p>Experimental Study on Combined CO<sub>2</sub> and Chemical Agent Recovery of Deep Low-Permeability Heavy Oil</p> <p>ZhangYu, Du Kexin, China University of Petroleum (East China)</p>                                                            |
| 12:00-14:00 | <p><b>Buffet Lunch and Break</b></p>                                                                                                                                                                                                                                      |

| 17 September 2026 (p.m.)                                                                                                                                                                                                              |                                                                                                                                                                                                                                                                                             |
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| <b>Host:</b><br><b>Jiang Haiyan, Xi'an University of Petroleum, Professor, Conference Review Experts</b><br><b>Sun Xiaofei, China University of Petroleum (East China), Professor and Ph.D. Supervisor, Conference Review Experts</b> |                                                                                                                                                                                                                                                                                             |
| 14:00-14:20                                                                                                                                                                                                                           | IFEDC202622970<br>Application and Practice of Nitrogen/Nitrogen Foam in Strong Edge and Bottom Water Heavy Oil Reservoirs --Take the Liaohe Y Oil reservoir as an Example<br>Chai Liwen, PetroChina Liaohe Oilfield Company, Senior Corporate Expert                                        |
| 14:20-14:40                                                                                                                                                                                                                           | IFEDC202622017<br>Research on the Coupling and Synergy of Profile Control and Viscosity Reduction to Improve Heavy Oil Reservoir Development Performance<br>Li Ran, Oil Production Technology Research Institute, Dagang Oilfield of PetroChina                                             |
| 14:40-15:00                                                                                                                                                                                                                           | IFEDC202621091<br>Three-Dimensional Oil-Water Distribution Pattern and Three-Dimensional Characterization of Extra-Heavy Oil Reservoirs --In the Case of Neogene of D5 Oilfield<br>Liao Xinwu, CNOOC China Limited, Tianjin Branch                                                          |
| 15:00-15:20                                                                                                                                                                                                                           | IFEDC202620777<br>Advanced Catalytic Technologies for the Conversion of Contaminated Petroleum Gas into Hydrogen and Olefins for Decarbonization in the Production of Heavy Oil<br>Kairat A. Kadirbekov, JSC "A.B. Bekturov Institute of Chemical Sciences", Almaty, Republic of Kazakhstan |
| 15:20-15:40                                                                                                                                                                                                                           | IFEDC202623054<br>Parameter Optimization of Mixed Thermal-Fluid Huff-Puff in Shallow Heavy Oil Reservoirs<br>Zhang Lei, China University of Petroleum (East China)                                                                                                                          |
| 15:40-16:00                                                                                                                                                                                                                           | IFEDC202620850<br>Feasibility and Thermal Recovery Mechanisms of Electric Heating for High Wax-Content Heavy Oil Production in Changchunling<br>Luo Yufeng, China University of Geosciences Beijing                                                                                         |

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| 16:00-16:30 | <b>Coffee Break and E-poster Seminars Sharing</b>                                                                                                                                                                                                                                              |
| 16:30-16:50 | <p>IFEDC202622718</p> <p>Viscosity-Temperature Characteristics and Component-Coupled Correction Prediction Model of Degassed Crude Oil in Block W of Bohai P Oilfield</p> <p>Zhang Bowen, CNOOC China Limited, Tianjin Branch, Senior Engineer</p>                                             |
| 16:50-17:10 | <p>IFEDC202621771</p> <p>Research and Practice on CO<sub>2</sub> Huff and Puff Experiment and Completion Technology for Sand-Producing Heavy Oil Wells in Bohai Bay L Oilfield</p> <p>Zhu Yingbin, Petroleum Engineering Research Institute of PetroChina Dagang Oilfield, Senior Engineer</p> |
| 17:10-17:30 | <p>IFEDC202621375</p> <p>A Method for Predicting the Chemical Viscosity Reduction Performance of Oil-Soluble Viscosity Reducers for Heavy Oil</p> <p>He Lipeng, State Key Laboratory of Enhanced Oil and Gas Recovery, Senior Engineer</p>                                                     |
| 17:30-17:45 | <p>IFEDC202621176</p> <p>Research on the Mechanism of Heat Steam Channeling in Offshore Thermal Recovery Wells and the Safety Risks of Drilling Adjacent Wells</p> <p>Xiao Yao, CNOOC (China) Tianjin Branch</p>                                                                               |
| 17:45-18:00 | <p>IFEDC202622484</p> <p>Experimental Study on Multiphase Flow Characteristics during In-Situ Combustion</p> <p>Meng Fanmao, China University of Petroleum</p>                                                                                                                                 |
| 18:30-20:30 | <b>Buffet Dinner</b>                                                                                                                                                                                                                                                                           |



## Session 13

## Meeting Room 13, 2F

### Dynamic Monitoring and Intelligent Reservoir Management

Co-organized by: Qinghai Oilfield Branch Company, CNPC; Testing Technology Service Branch Company, Daqing Oilfield Limited Company, CNPC

Convener: Li Jiangtao, Qinghai Oilfield Branch Company, CNPC, Chief Expert

Zheng Hua, Testing Technology Service Branch Company, Daqing Oilfield Limited Company, CNPC, First-Class Engineer

Date: 16-17 September, 2026

| 16 September 2026 (p.m.)                                                                                                                                                                             |                                                                                                                                                                                                                                         |
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| <b>Host:</b><br><b>Li Jiangtao, Qinghai Oilfield Branch Company, CNPC, Chief Expert, the Convener of This Venue</b><br><b>Wang Zhongyi, Daqing Branch of CNPC Logging Co., Ltd., Senior Engineer</b> |                                                                                                                                                                                                                                         |
| 14:00-14:30                                                                                                                                                                                          | IFEDC202622818<br>An Improved Two-phase Flow Model of Horizontal Well Considering Droplet Entrainment<br>Li Yuansheng, Shanghai Branch, CNOOC, Senior Engineer                                                                          |
| 14:30-15:00                                                                                                                                                                                          | IFEDC202620794<br>Frequently Asked Questions in Gas Reservoir Engineering Analysis of Deep and High-Pressure Gas Reservoirs<br>Sun Hedong, Research Institute of Petroleum Exploration and Development, Professor-Level Senior Engineer |
| 15:00-15:20                                                                                                                                                                                          | IFEDC202622765<br>EOS Simulation and Development Strategy Study for An Over-Pressured Condensate Gas Reservoir<br>Yu Jia, CCDC Geological Exploration & Development Research Institute                                                  |
| 15:20-15:40                                                                                                                                                                                          | IFEDC202622649<br>Research on Dynamic Evaluation Method of Drive Energy in Gas Cap and Bottom Water Reservoir<br>Liu Jiahui, CNOOC China Limited, Shenzhen Branch                                                                       |

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| 15:40-16:00                                                                                                                                                                                                                                                                                                                                          | <p>IFEDC202622753</p> <p>Hydro-Mechanical Evolution of An Unconsolidated Hydrate-Bearing Sandstone Reservoir During Depressurization</p> <p>Ivanov Zakhar, Laboratory of Natural Gas Hydrates Perm National Research Polytechnic University, Junior Researcher</p>                |
| 16:00-16:30                                                                                                                                                                                                                                                                                                                                          | <p><b>Coffee Break and E-poster Seminars for Sharing</b></p>                                                                                                                                                                                                                      |
| 16:30-17:00                                                                                                                                                                                                                                                                                                                                          | <p>Invited Presentation</p> <p>New Technologies and Application Prospects of Pipe Stress Testing and Intelligent Instrument Maintenance for Preventing Well Tubing Damage in Oil Wells and Improving Oil Recovery Rate</p> <p>Wang Zhongyi, CNPC Logging Co., Senior Engineer</p> |
| 17:00-17:20                                                                                                                                                                                                                                                                                                                                          | <p>IFEDC2026219286</p> <p>Intelligent Identification Technology for Injection Safety Monitoring and Overpressure Risk in Multi-layer Fault Reservoirs</p> <p>Meng Xianwei, CNOOC China Limited Pengbo Operating Company, Senior Engineer</p>                                      |
| 17:20-17:40                                                                                                                                                                                                                                                                                                                                          | <p>IFEDC2026224592</p> <p>Research on Multi-Parameter Logging Methods for Leak and Channel Detection Based on Wellbore Integrity Assessment</p> <p>Zhuo Hong, China National Logging Corporation, Senior Engineer</p>                                                             |
| 17:40-18:00                                                                                                                                                                                                                                                                                                                                          | <p>IFEDC202621034</p> <p>The Application of PNST Logging Series evaluation Technology in Jidong Oilfield</p> <p>Bai Jingyan, Logging &amp; Testing Service Company, Daqing Oilfield CO.LTD</p>                                                                                    |
| 18:30-20:30                                                                                                                                                                                                                                                                                                                                          | <p><b>Excellent Paper Award Ceremony (Large Conference Hall, 1F)</b></p>                                                                                                                                                                                                          |
| <p><b>17 September 2026 (a.m.)</b></p>                                                                                                                                                                                                                                                                                                               |                                                                                                                                                                                                                                                                                   |
| <p><b>Host:</b></p> <p><b>Zheng Hua, Testing Technology Service Branch Company, Daqing Oilfield Limited Company, CNPC, Professor-Level Senior Engineer, the Convener of This Venue</b></p> <p><b>Luo Mingzhang, School of Electronic Information and Electrical Engineering, Yangtze University, Professor &amp; Ph.D. supervisor &amp; Dean</b></p> |                                                                                                                                                                                                                                                                                   |

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| 08:30-09:00 | <p>Invited Presentation</p> <p>Research on New Methods of Drilling-While-Imaging Ultrasonic Wellbore Imaging and Crack Recognition</p> <p>Luo Mingzhang, School of Electronic Information and Electrical Engineering, Yangtze University</p>                   |
| 09:00-09:30 | <p>IFEDC202622424</p> <p>Application of RPM C Logging Three-Phase Saturation Technology in Gas Storage</p> <p>Zheng Hua, Logging &amp; Testing Services, Daqing Oilfield Co., Ltd., Professor-Level Senior Engineer</p>                                        |
| 09:30-10:00 | <p>IFEDC202620666</p> <p>Research on the Evaluation of Shale Oil Fracturing Effectiveness Based on Array Downhole Visualization High-Definition Imaging Technology</p> <p>Wang Chengrong, TuHa Division, China Petroleum logging Co. Ltd., Senior Engineer</p> |
| 10:00-10:30 | <p><b>Coffee Break and E-poster Seminars for Sharing</b></p>                                                                                                                                                                                                   |
| 10:30-10:50 | <p>IFEDC202621181</p> <p>Discussion of Evaluation Method for Development Effect of Deep Carbonate Gas Reservoirs</p> <p>Luo Ruilan, PetroChina Research Institute of Petroleum Exploration &amp; Development, Senior Engineer</p>                              |
| 10:50-11:10 | <p>IFEDC202622151</p> <p>Dynamic Characterization and Development Strategy Optimization of a Thick Carbonate Reservoir Based on Well Test Interpretation: A Case Study from M Oilfield, Iraq</p> <p>Jiang Baizhao, CNOOC International Limited</p>             |
| 11:10-11:30 | <p>IFEDC202621277</p> <p>Diagnosis of Flow Transients in Liquid-Loaded Gas Wells Based on Integrated Reservoir/Wellbore Model</p> <p>Tang Yinhao, Chengdu University of Technology</p>                                                                         |
| 11:30-11:45 | <p>IFEDC202622142</p> <p>Differentiated Development and Integrated Optimization Framework for Carbonate Reservoirs</p> <p>Zhang Han, Research Institute of Petroleum Exploration and Development, PetroChina</p>                                               |

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| 11:45-12:00                                                                                                                                                                                                                                                                                             | <p>IFEDC2026219281</p> <p>Analysis of Flow-Storage Mechanisms and Optimization of Development in Complex-Lithology Reservoirs Based on Well Testing</p> <p>Liu Yilong, CNOOC International Limited</p>                                         |
| 12:00-14:00                                                                                                                                                                                                                                                                                             | <b>Buffet Lunch and Break</b>                                                                                                                                                                                                                  |
| <b>17 September 2026 (p.m.)</b>                                                                                                                                                                                                                                                                         |                                                                                                                                                                                                                                                |
| <p><b>Host:</b></p> <p><b>Sun Hedong, Research Institute of Petroleum Exploration and Development, Professor-Level Senior Engineer, Conference Review Experts</b></p> <p><b>Luo Ruilan, Research Institute of Petroleum Exploration and Development, Senior Engineer, Conference Review Experts</b></p> |                                                                                                                                                                                                                                                |
| 14:00-14:20                                                                                                                                                                                                                                                                                             | <p>IFEDC202621884</p> <p>Research on Identification Method of Main Productive Layers in Multi-Layer Reservoirs Based on Elastic Net Algorithm</p> <p>Wu Hao, CNOOC International Limited, Senior Engineer</p>                                  |
| 14:20-14:40                                                                                                                                                                                                                                                                                             | <p>IFEDC2026224616</p> <p>An Intelligent Field Development Management System Based on Digital Reservoir Models and Optimization Problem Solving</p> <p>Marina G. Persova, Novosibirsk State Technical University</p>                           |
| 14:40-15:00                                                                                                                                                                                                                                                                                             | <p>IFEDC202622348</p> <p>Multi-Model Optimization for Single-Layer Water Cut Prediction in Commingled Sandstone Reservoirs: A Case Study of P Oilfield in Bohai Basin</p> <p>Li Guizai, CNOOC EnerTech-Drilling &amp; Production Co., Ltd.</p> |
| 15:00-15:20                                                                                                                                                                                                                                                                                             | <p>IFEDC202622097</p> <p>Research on Sand Production Prediction Method Based on Reservoir Rock Mechanics Analysis and Screen Failure Simulation</p> <p>Zhou Yugang, CNOOC China Limited, Tianjin Branch</p>                                    |
| 15:20-15:40                                                                                                                                                                                                                                                                                             | <p>IFEDC202621090</p> <p>Dynamic Prediction of Oil Well Production Based on BiLSTM-Attention and XGBoost</p> <p>Li Zhendong, Xinjiang Research Institute of the Huairou Laboratory</p>                                                         |

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| 15:40-16:00 | <p>IFEDC202620676</p> <p>An Intelligent Prediction Method for the Degree of Miscibility of CO<sub>2</sub>-Crude Oil System</p> <p>Ge Zhengjun, Research Institute of Exploration and Development, Jiangsu Oilfield Company SINOPEC</p>                                                                          |
| 16:00-16:30 | <p><b>Coffee Break and E-poster Seminars for Sharing</b></p>                                                                                                                                                                                                                                                    |
| 16:30-16:50 | <p>Exhibition Report</p> <p>Downhole Sand Monitoring Based on Acoustic Technology</p> <p>Wang Rubao, Beijing DukeTech Technology Co., Ltd., General Manager</p>                                                                                                                                                 |
| 16:50-17:10 | <p>IFEDC202622145</p> <p>Quantitative Evaluation and Real-Time Optimization of Temporary Plugging and Pump-Stop Diversion Effects in Shale Gas Fracturing Driven by Fiber-Optic Monitoring Outside Casing</p> <p>Sun Yuduo, Shale Gas Research Institute of PetroChina Southwest Oil &amp; Gasfield Company</p> |
| 17:10-17:30 | <p>IFEDC202622590</p> <p>Intelligent Analysis Platform and Field Application for Production Performance of Pressure-Driven in Low-Permeability Oil Reservoirs Based on Multi-Source Data</p> <p>Yu Silong, China University of Petroleum(East China)</p>                                                        |
| 17:30-17:45 | <p>IFEDC202621532</p> <p>A Dynamic Prediction Model for Water Cresting in Horizontal Wells in Fractured-Vuggy Bottom Water Gas Reservoirs</p> <p>Deng Hui, PetroChina Southwest Oil &amp; Gasfield Company</p>                                                                                                  |
| 17:45-18:00 | <p>IFEDC202621253</p> <p>Research and Application of Fiber Optic Sensing Technology in Unconventional Oil and Gas</p> <p>Han Yanhui, Research Institute of Petroleum Engineering Technology, Sinopec Shengli Oilfield Company</p>                                                                               |
| 18:30-20:30 | <p><b>Buffet Dinner</b></p>                                                                                                                                                                                                                                                                                     |

## Session 14

## VIP Room 4, 2F

# Efficient Development of Coalbed Methane (CBM) and Coal Measure Gas

Co-organized by: China University of Mining and Technology (CUMT)

Convener: Fu Xuehai, China University of Mining and Technology (CUMT), Second-Class Professor

Date: 16-17 September, 2026

| 16 September 2026 (p.m.)                                                                                                                                                                                                                                                             |                                                                                                                                                                                                                                                                                                         |
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| <b>Host:</b><br><b>Fu Xuehai, China University of Mining and Technology (CUMT), Second-Class Professor, the Convener of This Venue</b><br><b>Li Guofu, National Key Laboratory of Coal and Coalbed Methane Co-Extraction, Professor-Level Senior Engineer and Executive Director</b> |                                                                                                                                                                                                                                                                                                         |
| 14:00-14:20                                                                                                                                                                                                                                                                          | Invited Presentation<br>Characteristics and Formation Mechanism of Deep Carboniferous-Permian Coal System Bauxite Gas Reservoirs in Ordos Basin<br>Liu Dameng, China University of Geosciences (Beijing), Professor and Vice President                                                                  |
| 14:20-14:40                                                                                                                                                                                                                                                                          | Invited Presentation<br>The “Four-Zone Linkage” Full Life-Cycle Three-Dimensional Extraction Technology and Demonstration for Coalbed Methane in Coal Mining Areas<br>Li Guofu, National Key Laboratory for Coal and Coalbed Methane Co-production, Professor-Level Senior Engineer, Executive Director |
| 14:40-15:00                                                                                                                                                                                                                                                                          | Invited Presentation<br>Evaluation Methods for Coal-Bearing Gas Resources<br>Fu Xuehai, China University of Mining and Technology (CUMT), Professor                                                                                                                                                     |
| 15:00-15:20                                                                                                                                                                                                                                                                          | Invited Presentation<br>Research Progress on Rich-Oil Coal Resources in Xinjiang and In-Situ Fluidization Development<br>Li Xin, School of Geology and Mining, Professor and Vice Dean                                                                                                                  |

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| 15:20-15:40 | <p>Invited Presentation</p> <p>Simulation of Underground Coal Gasification and Evaluation of Gas Production Potential</p> <p>Wu Caifang, Key Laboratory of Coalbed Methane Resources &amp; Reservoir Formation Process, Professor and Director</p>                                                   |
| 15:40-16:00 | <p>IFEDC202622920</p> <p>Indirect Hydraulic Fracturing for Efficient CBM and Coal Measure Gas Development: An Australian Field Review with Implications for Chinese Low-Permeability and Tectonically Deformed Coal Reservoirs</p> <p>R. L. Johnson Jr, Novus Energy, Professor</p>                  |
| 16:00-16:30 | <p><b>Coffee Break and E-poster Seminars for Sharing</b></p>                                                                                                                                                                                                                                         |
| 16:30-16:45 | <p>IFEDC202622349</p> <p>A Review of Numerical Simulation of Hydraulic Fracturing in Coalbed Methane Reservoirs</p> <p>Cao Jinru, Institute of Porous Flow and Fluid Mechanics</p>                                                                                                                   |
| 16:45-17:00 | <p>IFEDC202621608</p> <p>Research on Low-Temperature Consolidation Modification Fracturing Technology for Middle-Shallow Coal Reservoirs in the Qinshui Basin</p> <p>Zhang Yang, PetroChina Huabei Oilfield Company, Senior Engineer</p>                                                             |
| 17:00-17:15 | <p>IFEDC202620947</p> <p>Research and Application of Collapse-Preventing Drilling Fluid Technology for Coalbed Methane Hydraulic Fracturing Sites</p> <p>Wang Jingguang, National Engineering Laboratory for Exploration and Development of Low Permeability Oil and Gas Fields, Senior Engineer</p> |
| 17:15-17:30 | <p>IFEDC202623044</p> <p>Selection of Promising Technologies for the Development of Heavy Oil Fields in the Republic of Chad, Taking into Account Russian Experience</p> <p>Moukhtar Mahamat Abdelkerim, Sergo Ordzhonikidze Russian State Geological Exploration University (MGRI), Moscow</p>      |
| 17:30-17:45 | <p>IFEDC202622193</p> <p>Evaluation of Fracturing Effect in Deep Coalbed Methane Based on Fracturing Operation Curves and Flowback Data</p> <p>Yang Heng, CCDC Changqing Downhole Technology Company</p>                                                                                             |

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| 17:45-18:00                                                                                                                                                                                                                                                                            | <p>IFEDC202622658</p> <p>Simulation of Stability of the Upper Uranium Ore Aquifer under Different Coal Mining Methods And Optimization of Coordinated Coal And Uranium Mining</p> <p>Rao Yongqiang, Northeastern University</p>                                                                                                                              |
| 18:30-20:30                                                                                                                                                                                                                                                                            | <p><b>Excellent Paper Award Ceremony (Large Conference Hall, 1F)</b></p>                                                                                                                                                                                                                                                                                     |
| <p><b>17 September 2026 (a.m.)</b></p>                                                                                                                                                                                                                                                 |                                                                                                                                                                                                                                                                                                                                                              |
| <p><b>Host:</b></p> <p><b>Wu Caifang, Key Laboratory of Coalbed Methane Resource &amp; Reservoir Formation Process, Ministry of Education, Professor and Director</b></p> <p><b>Li Xin, School of Geology and Mining Engineering, Xinjiang University, Professor and Vice Dean</b></p> |                                                                                                                                                                                                                                                                                                                                                              |
| 08:30-08:50                                                                                                                                                                                                                                                                            | <p>Invited Presentation</p> <p>Micro-structural Identification and Engineering Evaluation of Deep Coal Seam Horizontal Wells Based on Elemental Fingerprinting</p> <p>He Jiayuan, Research Institute of Petroleum Exploration and Development, Professor-Level Senior Engineer</p>                                                                           |
| 08:50-09:10                                                                                                                                                                                                                                                                            | <p>IFEDC202622135</p> <p>Quantitative Characterization of Pore Structure of Low-Rank Coal Reservoirs in Xishanyao Formation in Baijiahai uplift, Junggar Basin</p> <p>Wang Jian, PetroChina Xinjiang Oilfield Branch Exploration and Development Research Institute, Senior Engineer</p>                                                                     |
| 09:10-09:30                                                                                                                                                                                                                                                                            | <p>IFEDC202621723</p> <p>Variation Characteristics of Gas Geochemical Composition During Coal Rock Gas Releasing Process and Their Geological Significance: A Case Study of the Carboniferous Benxi No.8 coal Rock in the Eastern Ordos Basin</p> <p>Meng Kang, Research Institute of Exploration and Development, PetroChina Changqing Oilfield Company</p> |
| 09:30-09:45                                                                                                                                                                                                                                                                            | <p>IFEDC202621323</p> <p>Reservoir Modeling and Favorable Area Prediction of Deep Coalbed Methane</p> <p>Yang Di, CNOOC Research Institute Ltd.</p>                                                                                                                                                                                                          |

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| 09:45-10:00 | <p>IFEDC202622611</p> <p>Research on Fine Interpretation and Prediction of Thin Coal Seams and Rocks Based on “Double High” Seismic Processing and Forward Modeling</p> <p>Dong Desheng, Liaohe Oilfield Exploration and Development Research Institute</p>                                     |
| 10:00-10:30 | <p><b>Coffee Break and E-poster Seminars for Sharing</b></p>                                                                                                                                                                                                                                    |
| 10:30-10:45 | <p>IFEDC202622327</p> <p>Evaluation of Brittle-plastic Index of Deep Coal Based on Energy Dissipation</p> <p>Fan Kunkun, Qingdao Binhai University, Dean Assistant</p>                                                                                                                          |
| 10:45-11:00 | <p>IFEDC202623074</p> <p>Optimization of Key Production Parameters for Deep Coalbed Methane</p> <p>An Yongsheng, China University of Petroleum (Beijing), Associate Professor</p>                                                                                                               |
| 11:00-11:15 | <p>IFEDC202621406</p> <p>Key Technologies for Safe Casing Running in Deep Coalbed Methane Horizontal Wells</p> <p>Zhang Chao, Western Exploration and Development Project Department, Jidong Oilfield Company, PetroChina</p>                                                                   |
| 11:15-11:30 | <p>IFEDC202621308</p> <p>Cross-Scale Evaluation of Coal-Rock Gas Reservoirs from Near-Wellbore to Far-Field-Integrated Pulsed Neutron and Far-Field Acoustic Imaging</p> <p>Yang Xiaoming, Exploration and Development Research Institute of PetroChina Changqing Oilfield, Senior Engineer</p> |
| 11:30-11:45 | <p>IFEDC202622576</p> <p>Experimental Investigation of In-Situ Porosity in Deep Coal-Bearing Rocks from Jia County Region, Ordos Basin</p> <p>Xu Feng, China National Petroleum Corporation Jidong Oilfield Company Limited</p>                                                                 |
| 11:45-12:00 | <p>IFEDC202622471</p> <p>Production Profile Law of Sand-Coal Commingled Production and Coal-Rock Gas Horizontal Wells Based on PLT-MAPS-Optical Fiber Combined Logging</p> <p>Ren Jianwei, CNLC Changqing Branch</p>                                                                            |
| 12:00-14:00 | <p><b>Buffet Lunch and Break</b></p>                                                                                                                                                                                                                                                            |

## Session 15

## VIP Room 4, 2F

### CCUS and Frontiers of Negative Emission Technologies

Co-organized by: China Huaneng Clean Energy Research Institute (CERI)

Convener: Gao Shiwang, China Huaneng Clean Energy Research Institute (CERI), Deputy Chief Engineer

Date: 17-18 September, 2026

| 17 September 2026(p.m.)                                                                                                                                                                                                                                                          |                                                                                                                                                                                                                                                                                              |
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| <b>Host:</b><br><b>Gao Shiwang, China Huaneng Clean Energy Research Institute (CERI) , Deputy Chief Engineer, the Convener of This Venue</b><br><b>Wang Weibo, Research Institute of Shaanxi Yanchang Petroleum (Group) Co., Ltd., Professor-Level Senior Engineer, Director</b> |                                                                                                                                                                                                                                                                                              |
| 14:00-14:20                                                                                                                                                                                                                                                                      | <p>IFEDC202621744</p> <p>The practice of equilibrium displacement technology for CO<sub>2</sub> flooding after water flooding in ultra-low permeability strongly water-sensitive gravelly sandstone reservoirs</p> <p>Zhen Guinan, PetroChina Xinjiang Oilfield Company, Senior Engineer</p> |
| 14:20-14:40                                                                                                                                                                                                                                                                      | <p>IFEDC202621722</p> <p>Optimization of Reasonable Well Spacing in Tight Oil Reservoirs Based on Threshold Pressure Gradient and Relative Permeability Characteristics</p> <p>Wei Xun, School of Petroleum Engineering, Northeast Petroleum University, Senior Engineer</p>                 |
| 14:40-15:00                                                                                                                                                                                                                                                                      | <p>IFEDC202621372</p> <p>Numerical Simulation of Factors Influencing Thermal Extraction Efficiency in Multi-well CO<sub>2</sub> Plume Geothermal Systems</p> <p>Zhu Dajiang, Oil and Gas Technology Research Institute, PetroChina Southwest Oil &amp; Gasfield Company, Senior Engineer</p> |
| 15:00-15:15                                                                                                                                                                                                                                                                      | <p>IFEDC2026219291</p> <p>Hybrid Modelling and Optimisation of CO<sub>2</sub>-EOR Projects: Enhancing Techno-Economic Efficiency Through Automated Regime Control</p> <p>Taras Sergiyovich Petrenko, National University &amp;quot</p>                                                       |

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| 15:15-15:30 | <p>IFEDC202622508</p> <p>Study and Practice on Development Effect of CO<sub>2</sub> Huff and Puff in Low-Porosity and Low-Permeability Reservoirs</p> <p>WangYijun, PetroChian XinJiang Oilfield Company Heavy Oil Development Company</p>                                                                     |
| 15:30-15:45 | <p>IFEDC202621637</p> <p>A Surrogate-Assisted Evolutionary Injection-Production Optimization Method for Maximizing CO<sub>2</sub> Storage</p> <p>Liang Wenhao, China University of Petroleum (East China)</p>                                                                                                  |
| 15:45-16:00 | <p>IFEDC202623036</p> <p>Frontiers of CCUS and Negative Emission Technologies for Climate Resilient Decarbonization</p> <p>Ahsan, University of Science and Technology Beijing</p>                                                                                                                             |
| 16:00-16:30 | <p><b>Coffee Break and E-poster Seminars for Sharing</b></p>                                                                                                                                                                                                                                                   |
| 16:30-16:45 | <p>IFEDC202622614</p> <p>Pilot Study on CCUS in Deep Clastic Reservoirs of Bayan Oilfield</p> <p>Wang Hongmei, Exploration and Development Research institute of HuaBei Oilfield Company, Senior Engineer</p>                                                                                                  |
| 16:45-17:00 | <p>IFEDC2026224610</p> <p>CO<sub>2</sub> Storage in Depleted Gas Reservoirs: a Modular Coupled Hydro-Geomechanical Workflow Based on the MUFITS and PyLith Simulators, with Cross-Simulator Verification and Fault-Activation Analysis</p> <p>Gleb Strizhnev, Skolkovo Institute of Science and Technology</p> |
| 17:00-17:15 | <p>IFEDC202622928</p> <p>3D Full-Field Modeling for Coupled Fluid Flow and Geomechanics Simulation of Geological Carbon Storage: A Field Case Study in the Shengli Oilfield, China</p> <p>Yu Enyi, Peking university, Huairou laboratory</p>                                                                   |
| 17:15-17:30 | <p>IFEDC202622296</p> <p>Geo-Mechanical Optimization of Carbonated Water Injection for CO<sub>2</sub> Storage and Enhanced Oil Recovery</p> <p>Sahib Khan, Sprint Oil and Gas Services</p>                                                                                                                     |

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| 17:30-17:45                                                                                                                                                                                                                                                              | <p>IFEDC202621360</p> <p>Study on Enhancing Oil Recovery by CO<sub>2</sub> Huff-n-Puff in Tight Conglomerate Reservoirs</p> <p>Guo Peisong, School of Petroleum Engineering, China University of Petroleum (East China)</p>                                        |
| 17:45-18:00                                                                                                                                                                                                                                                              | <p>IFEDC202622645</p> <p>Analysis on Differences and Mechanisms of Relative Permeability Curves for CO<sub>2</sub> Flooding Under Atmospheric and Reservoir Conditions</p> <p>Meng Lingye, Nanhai East Petroleum Research Institute, CNOOC China Ltd.-Shenzhen</p> |
| 18:30-20:30                                                                                                                                                                                                                                                              | <p><b>Excellent Paper Award Ceremony (Large Conference Hall, 1F)</b></p>                                                                                                                                                                                           |
| <p><b>18 September 2026 (a.m.)</b></p>                                                                                                                                                                                                                                   |                                                                                                                                                                                                                                                                    |
| <p><b>Host:</b></p> <p><b>Shu Kun, Petroleum Research Institute for Exploration and Development, Tuha Oilfield Company, PetroChina, Vice President</b></p> <p><b>Tian Wei, Sinopec Zhongyuan OilField, Oilfield Expert and Researcher, Conference Review Experts</b></p> |                                                                                                                                                                                                                                                                    |
| 08:30-08:45                                                                                                                                                                                                                                                              | <p>IFEDC202621750</p> <p>Research on the Impact of Impurity Gases on CO<sub>2</sub> Displacement Front and Miscible Flooding Performance in Offshore Reservoirs</p> <p>Li Baozhen, CNOOC Research Institute Ltd., Senior Engineer</p>                              |
| 08:45-09:00                                                                                                                                                                                                                                                              | <p>IFEDC202622681</p> <p>Mechanism of CO<sub>2</sub> Trapping in Saline Aquifers with Capillary Hysteresis</p> <p>Miao Yun, Nanhai East Petroleum Research Institute, CNOOC China Ltd., Senior Engineer</p>                                                        |
| 09:00-09:15                                                                                                                                                                                                                                                              | <p>IFEDC202622949</p> <p>Sweep Characteristic of Different CO<sub>2</sub> Flooding Patterns Under the Influence of Crude Oil Viscosity and Compositional Modeling Method of CO<sub>2</sub> Thickener Flooding</p> <p>Qi Xiang, China Oilfield Services Ltd.</p>    |

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| 09:15-09:30 | <p>IFEDC202622755</p> <p>Natural Gas/CO<sub>2</sub> Synergistic Flooding for Enhanced Oil Recovery in Offshore Fractured Buried-Hill Reservoirs: A Multi-Scale Experimental Study</p> <p>Liu Wenzheng, Bohai Oilfield Research Institute, Tianjin Branch, CNOOC China Limited</p>               |
| 09:30-09:45 | <p>IFEDC202621370</p> <p>Influence of Capillary Pressure and Salt on Carbon Dioxide Solubility Trapping in Porous Media</p> <p>Xiong Wei, Southwest Petroleum University</p>                                                                                                                    |
| 09:45-10:00 | <p>IFEDC202622573</p> <p>Triaxial Cyclic Loading Experiments and Permeability Characteristics of Well Cement Stone under CO<sub>2</sub> Storage Conditions —— Based on CT Scanning Imaging Technology</p> <p>Zhang Bo, Oil &amp; Gas Technology Research Institute of Huabei Oilfield, cnpc</p> |
| 10:00-10:30 | <p><b>Coffee Break and E-poster Seminars for Sharing</b></p>                                                                                                                                                                                                                                    |
| 10:30-10:45 | <p>IFEDC202620769</p> <p>Research on Key Technologies for Carbon Capture on a Million-Ton Scale and Safe Geological Carbon Storage</p> <p>Tian Wei, Sinopec Zhongyuan Oilfield Company, Oilfield Expert and Researcher</p>                                                                      |
| 10:45-11:00 | <p>IFEDC202623024</p> <p>Accelerated Mineral Carbonation in the South China Sea: Integrating Experimental Validation and Geochemical Constraints</p> <p>Erfan Mohammadian, Northeast Petroleum University, Professor</p>                                                                        |
| 11:00-11:15 | <p>IFEDC202622386</p> <p>Laboratory Study on Hyperbranched Epoxy Resin-Based Migration Sealing Agent</p> <p>Tang Kai, Drilling and Production Engineering Technology Research Institute of CNPC Chuanqing Drilling Engineering Co., Ltd., Senior Engineer</p>                                   |
| 11:15-11:30 | <p>IFEDC202621983</p> <p>International CCUS Policies, Regulations and Standard Systems: A Comparative Study and Implications for China</p> <p>Wu Yujia, Research Institute of Petroleum Exploration &amp; Development, PetroChina Company Limited</p>                                           |

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| 11:30-11:40 | <p>IFEDC202621681</p> <p>Application and Effect Evaluation of Logging Technology in the Changqing Oilfield CCUS Demonstration Zone</p> <p>Zhang Jingyu, China National Logging Corporation Changqing Branch, Deputy Manager</p>                                                          |
| 11:40-11:50 | <p>IFEDC202621070</p> <p>Exploration and Practice of CO<sub>2</sub> Storage Combined with Gas Flooding for Oil Recovery in Natural Water-Drive Reservoirs</p> <p>Gao Jing, PetroChina Jidong Oilfield Company</p>                                                                        |
| 11:50-12:00 | <p>IFEDC202620829</p> <p>Microfluidic Investigation of Salt Precipitation Risk and Injectivity Impairment during CO<sub>2</sub>-EOR and Storage in Depleted Oil Reservoirs</p> <p>Liu Shanchao, State Key Laboratory of Deep Oil and Gas, China University of Petroleum (East China)</p> |
| 12:00-14:00 | <p><b>Buffet Lunch and Break</b></p>                                                                                                                                                                                                                                                     |

## Session 16

## Meeting Room 7, 2F

### Underground Storage Facilities and Energy Hub Technologies

Co-organized by: PetroChina Oil & Gas and New Energy Company

Convener: Wang Liangang, Gas Storage Management Center, PetroChina Oil & Gas and New Energy Company, Section Chief

Date: 16-17 September, 2026

| 16 September 2026 (p.m.)                                                                                                                                                                                                                                         |                                                                                                                                                                                                                                                   |
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| <b>Host:</b><br><b>Wang Liangang, Gas Storage Management Center, PetroChina Oil &amp; Gas and New Energy Company, Section Chief, the Convener of This Venue</b><br><b>Liao Wei, Xinjiang Hutubi Gas Storage and Utilization Company Limited, General Manager</b> |                                                                                                                                                                                                                                                   |
| 14:00-14:15                                                                                                                                                                                                                                                      | Invited Presentation<br>Current Status and Future Development Trends of Surface Engineering Technology for Gas Storage Facilities<br>Liu Ye, CPPEI, Technical Expert                                                                              |
| 14:15-14:30                                                                                                                                                                                                                                                      | Invited Presentation<br>Current Status and Development Directions of Well Engineering Technology for Underground Gas Storage<br>Ban Fansheng, Unconventional Research Institute, Senior Engineer                                                  |
| 14:30-14:45                                                                                                                                                                                                                                                      | Invited Presentation<br>Key Technologies and Field Practice for High-efficiency Peak Shaving and Safe Operation of Huitubi Gas Storage in Xinjiang<br>Liao Wei, Xinjiang Oilfield Gas Storage Co., General Manager                                |
| 14:45-15:00                                                                                                                                                                                                                                                      | Invited Presentation<br>Study on Well Pattern Optimization Strategy for Tarim Yaha Underground Gas Storage Construction<br>Wu Zangyuan, Exploration and Development Research Institute of PetroChina Tarim Oilfield Company, First-Class Engineer |

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| 15:00-15:15 | <p>Invited Presentation</p> <p>Key Technology Research and Practice for Liaohe Gas Storage Construction</p> <p>Li Nannan, Exploration and Development Research Institute of Liaohe Oilfield Company, PetroChina, Senior Engineer</p>                                                             |
| 15:15-15:30 | <p>Invited Presentation</p> <p>Operation Management and Digital Transformation Practices of Southwest Xiangguosi Gas Storage</p> <p>Wen Tingjun, Chongqing Xiangguosi Gas Storage Co., Senior Engineer</p>                                                                                       |
| 15:30-15:45 | <p>Invited Presentation</p> <p>Study on Quantitative Fracture Characterization and Modeling of H Underground Gas Storage</p> <p>Zheng Tianyun, Underground Gas Storage Research Institute, Exploration and Development Research Institute of PetroChina Southwest Oil &amp; Gasfield Company</p> |
| 15:45-16:00 | <p>Invited Presentation</p> <p>Study on Sealing Capacity Evaluation Methods of Geological Bodies in Volcanic Rock Underground Gas Storage</p> <p>Lu Jian, Exploration and Development Research Institute of Daqing Oilfield Company Limited, Senior Engineer</p>                                 |
| 16:00-16:30 | <p><b>Coffee Break and E-poster Seminars for Sharing</b></p>                                                                                                                                                                                                                                     |
| 16:30-16:45 | <p>Invited Presentation</p> <p>Summary and Recommendations on Economic Evaluation Experience of Underground Gas Storage in PetroChina</p> <p>Li Weixing, Economics Research Institute, PetroChina Planning &amp; Engineering Institute (CPPEI), Senior Engineer</p>                              |
| 16:45-17:00 | <p>IFEDC202621937</p> <p>Innovative Implementation of the Wellbore Integrity Management Model for the Entire Life Cycle of Oil and Gas Reservoir Type Gas Storage Groups</p> <p>Zhao Jie, Hebei Gas Storage Branch of North China Petroleum Administration Bureau Co., Ltd., Senior Engineer</p> |
| 17:00-17:15 | <p>IFEDC202622951</p> <p>Sealing Mechanism of Underground Gas Storage Reconstructed from Abandoned Coal Mines</p> <p>Liu Bingbing, Research Institute of Petroleum Exploration and Development</p>                                                                                               |

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| 17:15-17:30                                                                                                                                                                                        | <p>IFEDC202621757</p> <p>Dynamic MAWOP-Based Risk Assessment of Sustained Casing Pressure and Wellbore Integrity Management Practices for Underground Gas Storage Injection-Production Wells</p> <p>Wei Siqi, CNPC Huabei Oilfield Company</p>                           |
| 17:30-17:45                                                                                                                                                                                        | <p>IFEDC202623066</p> <p>Numerical Simulation of Microbial and Geochemical Processes for Cyclic H<sub>2</sub>/CO<sub>2</sub> Storage in Depleted Gas Reservoirs</p> <p>Xiong Zhanfu, School of Petroleum Engineering, China University of Petroleum (East China)</p>     |
| 17:45-18:00                                                                                                                                                                                        | <p>IFEDC202622382</p> <p>Evaluation of Aquifer Gas Storage Targets and Design of Storage Parameters in Rifted Basins: A Case Study of the X5 Trap in the Jizhong Depression</p> <p>Jia Qitong, School of Earth Sciences, Northeast Petroleum University</p>              |
| 18:30-20:30                                                                                                                                                                                        | <p><b>Excellent Paper Award Ceremony (Large Conference Hall, 1F)</b></p>                                                                                                                                                                                                 |
| <p><b>17 September 2026 (a.m.)</b></p>                                                                                                                                                             |                                                                                                                                                                                                                                                                          |
| <p><b>Host:</b></p> <p><b>Liu Ye, PetroChina Planning &amp; Engineering Institute (CPPEI), Technical Expert</b></p> <p><b>Ban Fansheng, Unconventional Research Institute, Senior Engineer</b></p> |                                                                                                                                                                                                                                                                          |
| 08:30-08:45                                                                                                                                                                                        | <p>IFEDC202622205</p> <p>Underground Gas Storage in Bottom-Water Buried-hill Gas Reservoir Key Technologies for Improving Peak-Shaving Capacity</p> <p>Ma Zhihong, Hebei Gas Storage Branch, Huabei Petroleum Administration Bureau Co., Ltd., CNPC, Senior Engineer</p> |
| 08:45-09:00                                                                                                                                                                                        | <p>IFEDC202622723</p> <p>Dynamic Tracking and Evaluation on Formation and Expansion of Secondary Gas Cap in Reservoir-Type Gas Storage</p> <p>Li Cong, PetroChina Jidong Oilfield Company, Senior Engineer</p>                                                           |
| 09:00-09:10                                                                                                                                                                                        | <p>IFEDC202622063</p> <p>A Method for Predicting Well Productivity of Oil Reservoir Gas Storage Coupling Experimental and Field Data</p> <p>Li Chun, CNPC Research Institute of Science and Technology Co., Ltd., Senior Engineer</p>                                    |

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| 09:10-09:20 | <p>IFEDC202621171</p> <p>Research and Application of Technology for Enhancing Gas Injection Capacity of Gas Storage Based on Series Boosting</p> <p>Fan Jiaxi, Petrochina Jidong Oilfield Company, Senior Engineer</p>                                                                                    |
| 09:20-09:30 | <p>IFEDC202622998</p> <p>Study on Mathematical Model of Non-Uniformity Coefficient of Gas Storage Peak Regulation and Optimization of Lower Limit Pressure</p> <p>Wu Ruyun, Wang Yong, Key Laboratory of EOR, Ministry of Education, Northeast Petroleum University</p>                                   |
| 09:30-09:40 | <p>IFEDC202622773</p> <p>Dynamic Monitoring Practice of Gas Flooding Sweep Condition in Offshore Reservoir-Type Gas Storage</p> <p>Ju Yingjiao, Jidong Oilfield Company Underground Gas Storage Construction Project Department (Underground Gas Storage Company)</p>                                     |
| 09:40-09:50 | <p>IFEDC202621754</p> <p>Water Production Control and Capacity Optimization Techniques for Underground Gas Storage Converted from Strong Bottom-Water Buried-Hill Gas Reservoirs</p> <p>Wu Shaoshuang, PetroChina Huabei Oilfield Hebei Gas Storage Branch, Senior Engineer</p>                           |
| 09:50-10:00 | <p>IFEDC202622426</p> <p>Dynamic Monitoring Technologies and Multi-Dimensional Application Research for Oil Reservoir Gas Storage</p> <p>Qiao Yu, Petrochina Jidong Oilfield Company, Senior Engineer</p>                                                                                                 |
| 10:00-10:30 | <p><b>Coffee Break and E-poster Seminars for Sharing</b></p>                                                                                                                                                                                                                                              |
| 10:30-10:45 | <p>IFEDC202621632</p> <p>Research on Cavity-Creation Methods and Supporting Technologies to Improve the Utilization of Pre-Target Resources in Horizontal Wells Within Thin Salt Layers</p> <p>Han Donghuan, China National Petroleum Corporation Engineering Technology Research Institute Co., Ltd.</p> |
| 10:45-11:00 | <p>IFEDC202620882</p> <p>Integrated Gas-Injection EOR and Peak-Shaving Test Operation for Underground Gas Storage Reconstruction in a High-Water-Cut Oil Reservoir</p> <p>Liu Changlin, Gas Transmission Management Department of PetroChina Southwest Oil &amp; Gasfield Company</p>                     |

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| 11:00-11:15 | <p>IFEDC202623011</p> <p>The Influence of Temperature Thermal Effect of Different Injection-Production Rates on the Sealing Property of Caprock in Deep Gas Storage</p> <p>Zhang Ziyu, School of mechanical science and Engineering of Northeast Petroleum University</p>            |
| 11:15-11:30 | <p>IFEDC202623001</p> <p>Research on the Gas-Driven Rolling Drainage Expansion Mechanism during Underground Gas Storage Construction in Layered Water-Flooded Oil Reservoirs</p> <p>Tian Wenyan, Key Laboratory of EOR, Ministry of Education, Northeast Petroleum University</p>    |
| 11:30-11:40 | <p>IFEDC202621317</p> <p>A Coupled Dynamic Prediction Model for Sand Production, Productivity Decline and Well-Pattern Power Output in Depleted-Gas-Reservoir Compressed Air Energy Storage</p> <p>Dai Kun, CNPC Engineering Technology R&amp;D Company Limited, Senior Engineer</p> |
| 11:40-11:50 | <p>IFEDC202623000</p> <p>Numerical Simulation Study on Capacity Expansion Law of Gas Storage Reconstructed from R Low Permeability Reservoir</p> <p>Zhu Yicong, School of Earth Sciences, Northeast Petroleum University</p>                                                         |
| 11:50-12:00 | <p>IFEDC202622997</p> <p>Study on the Operation Mode of Compressed Air Energy Storage Reservoir in the Middle and Late Stage of Gas Reservoir Reconstruction</p> <p>Chen Yao, Key Laboratory of EOR, Ministry of Education, Northeast Petroleum University</p>                       |
| 12:00-14:00 | <p><b>Buffet Lunch and Break</b></p>                                                                                                                                                                                                                                                 |

## Session 17

## Meeting Room 17, 2F

### Scientific Computing and Applications of Industrial Large Models

Co-organized by: Peking University

Convener: Ma Jianwei, Peking University, Professor

Date: 17 September, 2026

| 17 September 2026 (p.m.)                                                                                                                                                                                                                                   |                                                                                                                                                                                                                                        |
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| <b>Host:</b><br><b>Su Xuesong, Technology Inspection Center of Shengli Oilfield, Professor-Level Senior Engineer</b><br><b>Wei Xinjian, Northwest Branch of PetroChina Exploration and Development Research Institute, Professor-Level Senior Engineer</b> |                                                                                                                                                                                                                                        |
| 14:00-14:20                                                                                                                                                                                                                                                | Invited Presentation<br>Research on Intelligent Extraction Methods for Acoustic Logging Dispersion Curves<br>Zhang Chao, Harbin Institute of Technology, Professor and Doctoral Supervisor                                             |
| 14:20-14:40                                                                                                                                                                                                                                                | IFEDC202621221<br>A Robust UAV-Based Thermal Anomaly Detection Algorithm for Oilfields Guided by Multi-Dimensional Priors<br>Su Xuesong, Technology Inspection Center of Shengli Oilfield, Professor-Level Senior Engineer             |
| 14:40-15:00                                                                                                                                                                                                                                                | IFEDC202621386<br>A Loosely Coupled Mechanism Deep Learning Ensemble Method and Implementation<br>Wei Xinjian, Research Institute of petroleum exploration & development-northwest (NWGI), petrochina, Professor-Level Senior Engineer |
| 15:00-15:15                                                                                                                                                                                                                                                | IFEDC202620575<br>Research on Precise Positioning Design Technology of Drilling Rigs at Critical Water Depths in the East China Sea Oilfield<br>Zhang Baoping, CNOOC EnerTech-Drilling&Production Co.Tianjin, Senior Engineer          |

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| 15:15-15:30 | <p>IFEDC2026224611</p> <p>Automatic Tuning of Gas-Condensate PVT Models Using Laboratory and Field Separation Data</p> <p>Elizaveta Egorova, Moscow Institute of Physics and Technology (MIPT)</p>                                                                                                       |
| 15:30-15:45 | <p>IFEDC202622663</p> <p>Development of a Seismic Auxiliary Data Format Conversion Software Module Using the Large Language Model Code Generation Tool KIRO</p> <p>Bai Zhihong, BGP Hebei Acquisition Technology Branch, CNPC, Senior Engineer</p>                                                       |
| 15:45-16:00 | <p>IFEDC202621849</p> <p>Research on Big Model Technology Selection and Application Pathways for Digital and Intelligent Transformation at Liaohe Oilfield, PetroChina</p> <p>Li Chuang, Liaohe Oilfield Company Research Institute of Economics and Technology, PetroChina, Senior Corporate Expert</p> |
| 16:00-16:30 | <p><b>Coffee Break and E-poster Seminars for Sharing</b></p>                                                                                                                                                                                                                                             |
| 16:30-16:40 | <p>IFEDC202622800</p> <p>Deep Residual Networks with Multi-Window Probability Aggregation for Formation Division from Well Logs</p> <p>Yang Runzhuo, CNOOC (China) Limited</p>                                                                                                                           |
| 16:40-16:50 | <p>IFEDC202622181</p> <p>Intelligent Prediction of Key Quality Attributes of Drilling-Fluid-Grade Xanthan Gum by Near-Infrared Spectroscopy and Machine Learning</p> <p>Tang Yulin, China Oilfield Services Limited</p>                                                                                  |
| 16:50-17:00 | <p>IFEDC202622154</p> <p>A Temporal Multi-Feature Joint Modeling Approach for Predicting Water Cut Trends in Pumping Wells</p> <p>Gong Xuchao, Sinopec Shengli Oilfield Branch</p>                                                                                                                       |
| 17:00-17:10 | <p>IFEDC202621551</p> <p>Research on Multi-Scale Time Series Prediction Method of Liquid Production in Pumping Wells Based on TimeMixer</p> <p>Li Yansong, Research Institute of Petroleum Exploration &amp; Development-northwest</p>                                                                   |

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| 17:10-17:20 | <p>IFEDC202621383</p> <p>A Non-uniform Storage Method for Seismic Volume Data Based on Structural Complexity Partitioning</p> <p>Lin Hanwei, Research Institute of Petroleum Exploration &amp; Development-Northwest</p>                                                     |
| 17:20-17:30 | <p>IFEDC202622213</p> <p>A Novel Neural Network for Enhanced Stratigraphic Division in Oil and Gas Exploration through Multi - scale Attention and Dense Connections</p> <p>Huang Qi, Bohai Oilfield Research Institute, CNOOC Ltd. Tianjin Branch</p>                       |
| 17:30-17:40 | <p>IFEDC202621279</p> <p>Research on Reservoir Development Status Analysis Technology Based on Large Language Models</p> <p>Bu Yahui, Exploration and Development Research Institute, Shengli Oilfield Company, Senior Engineer</p>                                          |
| 17:40-17:50 | <p>IFEDC202622574</p> <p>Based on Knowledge Graph and Large Language Model Method of Energy Consumption Intelligent Auxiliary Decision-Making Method for Water Injection Systems</p> <p>Li Jun, PetroChina Research Institute of Petroleum Exploration &amp; Development</p> |
| 17:50-18:00 | <p>IFEDC202622491</p> <p>A Domain-Aware Agentic Harness for Structured Information Extraction from Field Development Plan Reports</p> <p>Liu Xingbang, Research Institute of Petroleum Exploration &amp; Development</p>                                                     |
| 18:00-20:30 | <p><b>Excellent Paper Award Ceremony ( Large Conference Hall, 1F )</b></p>                                                                                                                                                                                                   |

# E-poster Seminars for Sharing

## Display Screen No.1

### Petroleum Geology and Comprehensive Exploration

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| <p>IFEDC202622577</p> <p>Evaluation of petroleum geological characteristics and undiscovered resources along the southwestern coast of Africa</p> <p>Bian Haiguang, Research Institute of Petroleum Exploration and Development, Senior Engineer</p>                                 |
| <p>IFEDC202622340</p> <p>Analysis and prediction of the amplitude characteristics of progradational bodies in the Yanchang Formation in Zhenjing Area, southern Ordos Basin</p> <p>Yang Lu, SINOPEC Geophysical Research Institute Co., Ltd., Senior Engineer</p>                    |
| <p>IFEDC202622276</p> <p>Mg<sup>2+</sup> Sources and Reflux Seepage Dolomitization of Lacustrine Dolomite in the Lower Ganchaigou Formation of Chaixi</p> <p>Zhang Xiaojun, Research Institute of Petroleum Exploration &amp; Development-Northwest, Petrochina, Senior Engineer</p> |
| <p>IFEDC202622577</p> <p>Evaluation of petroleum geological characteristics and undiscovered resources along the southwestern coast of Africa</p> <p>Bian Haiguang, Research Institute of Petroleum Exploration and Development, Senior Engineer</p>                                 |
| <p>IFEDC202622340</p> <p>Analysis and prediction of the amplitude characteristics of progradational bodies in the Yanchang Formation in Zhenjing Area, southern Ordos Basin</p> <p>Yang Lu, SINOPEC Geophysical Research Institute Co., Senior Engineer</p>                          |
| <p>IFEDC202622108</p> <p>Quantitative Evaluation of Injection-Production Connectivity and Prediction of Response Time in Low-Permeability Reservoirs</p> <p>Dan Lingling, CNOOC Energy Technology-Drilling&amp;Production Company, Senior Engineer</p>                               |
| <p>IFEDC202622096</p> <p>Multi-scale Characterization and Geological Modeling of Fracture Systems in Carboniferous Multi-episode Volcanic Rocks: A Case Study from Shixi Oilfield</p> <p>Lin Zhang, Research Institute of Exploration and Development, Senior Engineer</p>           |

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| <p>IFEDC202621966</p> <p>Protective Device and Regulation Technology for the Low-Pressure System of the Vibration Pump Applicable to AHV480 Vibroseis</p> <p>Lv Shuai, BGP, Vibrator Director</p>                                                                                             |
| <p>IFEDC202621956</p> <p>Geological genesis model study of low resistivity reservoir in the Guanxi Formation of Bohai A Oilfield</p> <p>Zhang Wentong, Bohai Oilfield Research Institute, Development Geologist</p>                                                                           |
| <p>IFEDC202621050</p> <p>Natural Gas Accumulation Characteristics and Exploration Directions in the Sao Francisco Basin, Brazil</p> <p>Liu Yaming, PetroChina Research Institute of Petroleum Exploration &amp; Development, Senior Engineer</p>                                              |
| <p>IFEDC202620955</p> <p>Discussion on Characteristics and Causes of Low Oil Saturation Reservoirs in Tight Conglomerates in Mahu Area - A Case Study of Baikouquan Formation in Da-13 Well Area</p> <p>Zhang Daiyan , Research Institute of Exploration and Development, Senior Engineer</p> |
| <p>IFEDC202622923</p> <p>Establishment and application of a single-well benefit evaluation system for oil tailings—A case study of Yanchang petroleum tailings assessment</p> <p>Wang Feifei, Reseach Institute of Yanchang Petroleum(Group) Co.Ltd., Professor-Level Senior Professor</p>    |
| <p>IFEDC202622955</p> <p>Hydrocarbon accumulation and exploration directions in the deep strata and piedmont zones of large superimposed basins in Western China</p> <p>Liu Yalei, Oil &amp; Gas Survey, Professor-Level Senior Professor</p>                                                 |
| <p>IFEDC202622207</p> <p>Reservoir Control Mechanisms Based on the Interaction Between Deep-Water Gravity Flow and Bottom Flow: A Case Study of the Rovuma Basin in East Africa</p> <p>Wu Jia'Nan, PetroChina Hangzhou Research Institute of Geology, Senior Engineer</p>                     |
| <p>IFEDC202621215</p> <p>Evolution of the Cenozoic Transtensional Fault System and Its Control on Sedimentation in the Tanhai Area of Shengli Oilfield</p> <p>Xin Yanfang, Exploration and Development Research Institute, Associate Researcher</p>                                           |
| <p>IFEDC202620869</p> <p>Low-permeability to Tight Thin Reservoir Sweet Spot Prediction Methods and Application Effectiveness: A Case Study of the Sichuan and Tarim Basins</p> <p>Jiang Yanliang, Xinjiang University、Sinopec Geophysical Research Institute Co.</p>                         |

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| <p>IFEDC202622936</p> <p>Experimental Study on Mechanical Parameters of Marine Unlithified Weakly Cemented Rock Core</p> <p>Zhang Tianyi, Southwest Petroleum University</p>                                                                                                                                                                                                               |
| <p>IFEDC202622509</p> <p>Sedimentary and Reservoir Characteristics of the Permian Total Petroleum System in the Northern Flank of the Bogda Mountains</p> <p>Cheng Yi, China Petroleum Tuhu Oilfield Branch Company</p>                                                                                                                                                                    |
| <p>IFEDC202622167</p> <p>AICD Parameter Optimization and Segmented Design for Low-Permeability High-Water-Cut Horizontal Wells</p> <p>Yu Gao, Oil &amp; Gas Technology Research Institute</p>                                                                                                                                                                                              |
| <p>IFEDC202622032</p> <p>Geological Model for Stratigraphic Correlation and Remaining Oil Potential Exploitation in Thin Interbed Reservoirs of High Water-cut Oilfields Based on Multi-dimensional “Point-Line-Plane” Constraints: A Case Study of Three Types of Oil Layers in Z Development Area</p> <p>Liu Yue, The Fourth Oil Production Plant of Daqing Oilfield Limited Company</p> |
| <p>IFEDC202621910</p> <p>Identification and Genetic Mechanism of High Permeability Streak in Fractured-porous Carbonate Reservoir in the Middle East-Taking A Oilfield as an Example</p> <p>Hui Chen, CNOOC International Ltd.</p>                                                                                                                                                         |
| <p>IFEDC202620929</p> <p>Research on Quantitative Identification Methods for Water-Flooded Zones in Heterogeneous Reservoirs of Mature Oilfields</p> <p>Nafeisha Maimaiti , Research Institute of Exploration and Development</p>                                                                                                                                                          |
| <p>IFEDC202622212</p> <p>Sedimentary Provenance Analysis of Tight Sandstone Gas Reservoirs in the Middle Jurassic Shaximiao Formation, Western Sichuan Depression</p> <p>Luo Xiao, College of Geosciences</p>                                                                                                                                                                              |
| <p>IFEDC202621079</p> <p>Knowledge-based Machine Learning for Favorable Hydrocarbon Accumulation Zone Prediction in the Longwangmiao Formation, Sichuan Basin</p> <p>Chang Zijing, China University of Petroleum</p>                                                                                                                                                                       |
| <p>IFEDC202621172</p> <p>Sedimentary Characteristics and Sand Control Mechanism of the 3rd Member of Dongying Formation in Lvda 16-1 Structure, Western Liaoning Slope Zone</p> <p>Zhao Ye, Bohai Oilfield Research Institute1</p>                                                                                                                                                         |

IFEDC202622149

Study on the Sensitivity of Different Diagenetic Facies in Ultra-Low Permeability Reservoirs- A Case Study of the Zhenyuan Chang 3 Reservoir in the Tianhuan Depression, Ordos Basin

Gu Xiaoyu, School of Petroleum Engineering

IFEDC202620708

A New Method for Predicting the Productivity of Anomalous High-Pressure Gas Wells Considering Stress Sensitivity of Permeability

Zuoming Yang, PetroChina Xinjiang Oilfield Company

## Deep and Ultra-Deep Petroleum Geological Theory and Key Technologies for Exploration and Development

IFEDC202621987

Design and Performance Analysis of an Integrated Ultra-High-Temperature and Ultra-High-Pressure Testing System for Downhole Tools in Deep Oil and Gas Wells

Huang Jingfu, CNPC Chuanqing Drilling Engineering Company Limited, Senior Engineer

IFEDC202621493

Study on Gas-Water Two-Phase Seepage Characteristics of Deep Carbonate Gas Reservoirs in Sichuan Basin, China

Yan Youjun, PetroChina SouthWest Oil &amp; Gas Field Company, Senior Engineer

IFEDC202621392

Genesis and Delineation of Quality Weak-Karst Reservoirs in Deep Carbonates: An Example from the Intra-platform Deng-4 Gas Reservoir, GaoMo Region, Sichuan Basin

Xu Wei, PetroChina Southwest Oil &amp; Gasfield Company, Senior Engineer

IFEDC202621282

Practice and Effectiveness of Seismic Technologies for Water Control Development in Ultra-Deep Gas Reservoirs in the Kuqa Piedmont

Xu Jianhua, Tarim Geophysical Research Institute of BGP Co., Senior Engineer

IFEDC202621182

Sand Production Prediction Model for Sand-Producing Wells in Fractured Tight Gas Reservoirs Based on Grey-Markov Model

Zidun Wang, Dina Oil and Gas Production Management Area of PetroChina Tarim Oilfield Company, Senior Engineer

IFEDC202621131

Genetic Mechanism and Prediction Method of Abnormal Pressure in Mid-deep Strata of the Western Pearl River Mouth Basin

Liu Aiqun, Zhanjiang Branch of CNOOC Ltd, Senior Engineer

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| <p>IFEDC202622688</p> <p>Study on the Reservoir Characteristics and Main Controlling Factors of the Deng-2 Member in the Penglai Area, Sichuan Basin</p> <p>Deng Yu, Chengdu University of Technology</p>                                                                         |
| <p>IFEDC202621906</p> <p>Inversion Method of Formation Pressure in Strong Water-Driven Gas Reservoirs Based on Material Balance</p> <p>Han Haotian, Research Institute of Petroleum Exploration and Development of Jilin Oilfield Company, Senior Engineer</p>                    |
| <p>IFEDC202620820</p> <p>Research Progress, Challenges, and Breakthrough Pathways of Deep to Ultra-Deep Dolomite Reservoirs</p> <p>Li Qian, School of Geosciences, Special-Appointed Associate Professor</p>                                                                      |
| <p>IFEDC202622400</p> <p>Research on Optimization of Sub-salt Structural Imaging Based on Full-azimuth Grid Tomography Velocity Modeling——A Case Study of the Paleogene Gypsum-salt Rock Area in the Maigaiti Slope</p> <p>Zhu Yaosen, Shaanxi Yanchang Petroleum (Group) CO.</p> |
| <p>IFEDC202621170</p> <p>Experimental Study on the Drillability of Qiongzhusi Shale in the Sichuan Basin</p> <p>Liu Yuntao, Petrochina Southwest Oil&amp;GasField Company Oil&amp;Gas Technology Research Institute</p>                                                           |
| <p>IFEDC202620689</p> <p>Fracture Characteristics of the Dengying 4 Member within the platform in the Gaoshiti Block of Anyue Gas Field and Their Impact on Gas Reservoirs</p> <p>Xu Rui, Exploration and Development Research Institute</p>                                      |
| <p>IFEDC202620987</p> <p>Experimental Study on Multi-Stage Charging and Accumulation Processes and Phase Behavior Evolution of Ultra-Deep Oil and Gas Reservoirs</p> <p>Tuo Yibo, China University of Petroleum (Beijing)</p>                                                     |

## Display Screen No.2

### Geophysical Technology and Precision Detection

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| <p>IFEDC202622700</p> <p>Application of the Angle-Domain Specular Imaging Method in the High-Steep and Complex Structures of the Eastern Sichuan Basin</p> <p>Zhou Qi, Southwest Geophysical Prospecting Research Institute of BGP, Senior Engineer</p>              |
| <p>IFEDC202622661</p> <p>Application of Geological Body Characterization Technology Using OVT-Domain Wide-Azimuth Seismic Data in the Su5 Block of Sulige Gas Field</p> <p>Han Chong, Geological Exploration and Development Research Institute, Senior Engineer</p> |
| <p>IFEDC202622073</p> <p>Partition-Adaptive Seismic Acquisition Method and Effect for Ultra-Deep Formations in Southwestern Tarim</p> <p>Jianguo Chen, BGP Inc., Senior Engineer</p>                                                                                 |
| <p>IFEDC202621912</p> <p>Fine Calibration Method of Synthetic Seismograms for Tight Sandstone Reservoirs Constrained by VSP Data: A Case Study of the Shaximiao Formation in the QL Area, Sichuan Basin</p> <p>Qin Li, BGP Geophysical Company, Senior Engineer</p>  |
| <p>IFEDC202621738</p> <p>The application of borehole seismic technology in the oilfield development of the Ordos Basin</p> <p>Chen Ce, China University of Petroleum (Beijing), Senior Engineer</p>                                                                  |
| <p>IFEDC202621675</p> <p>Intelligent Prediction of Carboniferous Carbonate Reservoirs in the Eastern Pre-Caspian Basin Using Neural Network Technology</p> <p>Zhang Shengbin, International Company of China National Logging Corporation, Senior Engineer</p>       |
| <p>IFEDC202621002</p> <p>Seismic data driven stress prediction based on pore elasticity theory</p> <p>Chaoyang Lei, Sinopec Geophysical Research Institute Co., Associate Researcher</p>                                                                             |
| <p>IFEDC202620873</p> <p>Accelerating Low-Frequency Marine Seismic Source Design: A Large-Scale Optimization of Air-Gun Time Delays</p> <p>Sun Leiming, China Oilfield Services Ltd. (Geophysical-COSL),<br/>Director of Geophysical Methods Research Institute</p>  |

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| <p>IFEDC202620653</p> <p>Geophysics-Driven Quantum Denoising of Seismic Data</p> <p>Haitao Yan, Aba Teachers College, Lecturer</p>                                                                                                          |
| <p>IFEDC202622840</p> <p>Seismic Facies Classification Technology of Carbonate Weathering Crust Reservoirs Based on an Improved Intelligent SOM Waveform Clustering Algorithm</p> <p>Wu Jun, Sinopec Geophysical Research Institute Co.</p> |
| <p>IFEDC202622653</p> <p>Augmenting Seismic Inversion with Machine-Learning-Predicted Elastic Logs from Drilling Data</p> <p>Wang Kai, CNOOC China Limited</p>                                                                              |
| <p>IFEDC202622552</p> <p>Deep Learning-Based Automatic Fault Recognition in Remote Sensing Images</p> <p>Wang Junshuang, Xi'an Shiyou University</p>                                                                                        |
| <p>IFEDC202622535</p> <p>Using Upward Continuation to Analyze the Indication of Gravity Anomalies for the Dip Direction of Shallow Faults</p> <p>Yang Dabing, BGP</p>                                                                       |
| <p>IFEDC202622532</p> <p>Joint Velocity Modeling Method Integrating First-Arrival Traveltime Tomography and Full-Waveform Inversion</p> <p>Feng Yancang, Research Institute of Petroleum Exploration &amp; Development-Northwest (Nwgi)</p> |
| <p>IFEDC202622513</p> <p>Response and Evaluation of Key Observation Parameters for Micro-fracture Imaging via 3D Forward Modeling</p> <p>Wang Xuemei, Southwest Geophysical Branch</p>                                                      |
| <p>IFEDC2026224591</p> <p>Machine Learning-Based Prediction of Fractured Buried-Hill Reservoir Thickness Constrained by Controlling Factors</p> <p>Pei Shengjie, CNOOC Research Institute Co.</p>                                           |
| <p>IFEDC202621388</p> <p>The Collaborative Application of VIBPRO-HD Box + Source Link Software + Digital Radio + GPS in 3D-VSP Logging</p> <p>Ku Senwei, BGP INTL.</p>                                                                      |

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| <p>IFEDC202621298</p> <p>Development and Application of an Integrated Protection Device for Low-pressure Sensors of AHV480 Vibrator</p> <p>Jing Xiaoliang, BGP Inc. CNPC</p>                                                                                        |
| <p>IFEDC202622211</p> <p>Quantitative Characterization and Exploration Practice of Hydrocarbon Migration and Accumulation Capacity of Structural Ridges in Bozhong Sag</p> <p>Zuo Zhonghang, China National Offshore Oil Corporation (CNOOC) Ltd Tianjin Branch</p> |
| <p>IFEDC202622162</p> <p>Lithologic Traps Characterization and Sand-Richness Prediction of Foreset Delta in the Dongying Formation of Bohai Oilfield</p> <p>Wang Zhiping, CNOOC China Limited</p>                                                                   |
| <p>IFEDC202621860</p> <p>Application of Well-Seismic Joint Technology in the Identification of Subtle Channels in the Shaximiao Formation, Central Sichuan Basin</p> <p>Ding Chuanqi, College of Geophysics</p>                                                     |
| <p>IFEDC202621354</p> <p>Fine-Scale Fault Characterization Using Artificial Intelligence: A Case Study from the Keshen 8 Gas Reservoir, Tarim Basin</p> <p>Wu Chenqi, BGP</p>                                                                                       |

## Logging Technology and Rock Physics Innovation

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| <p>IFEDC202622992</p> <p>Quantitative Analysis and Fine Characterization of Ordovician Extra-deep Fault-controlled Reservoir in Tarim Basin</p> <p>Guo Qingbin, PetroChina Tarim Oilfield Research Institute of Exploration and Development, Director of Well Logging Research Department, Exploration and Development Research Institute</p> |
| <p>IFEDC202622991</p> <p>Four Parameter Inversion and Influencing Factors Analysis for Fractured Oil Based Mud Electric Imaging Logging</p> <p>Ma Yani, School of Earth Science and Engineering</p>                                                                                                                                           |
| <p>IFEDC202622823</p> <p>Research on the impact of copper dissolution on the reliability of high-temperature PCBA in logging instruments and control measures</p> <p>Wu Jie, China National Logging Corporation, Senior Engineer</p>                                                                                                          |

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| <p>IFEDC202622670</p> <p>Analysis of factors influencing the calculation results of rigidity passability of logging instruments</p> <p>Guo Shuai, Tianjin Branch, Senior Engineer</p>                                                                                                                   |
| <p>IFEDC202622005</p> <p>Research on "Four Properties" Relationship and Lower Limit of Effective Reservoirs in Member 8 of Lower Shihezi Formation, Yanchang Area, Ordos Basin</p> <p>Wang Kai, Natural Gas Research Institute of Shaanxi Yanchang Petroleum (Group) Co., Senior Engineer</p>           |
| <p>IFEDC202623082</p> <p>Study on the Influence of Fractures and Mud Column Variations on Waveform Characteristics in Ultrasonic Logging</p> <p>Liu Yushan, Xi'an Shiyou University</p>                                                                                                                 |
| <p>IFEDC202622521</p> <p>A Forgetting Factor Kalman Filter Acceleration Correction in Electrical Imaging Logging: A Case Study of the Sticking-Releasing Process</p> <p>Ye Chen, China National Logging Corporation</p>                                                                                 |
| <p>IFEDC202622485</p> <p>Analysis and Qualitative Evaluation of Well Logging Response Characteristics of Water-Flooded Layers—Taking the M Layer of the K Oilfield in the South Turgai Basin as an Example</p> <p>Zeng Guangming , Xinjiang Oilfield Exploration and Development Research Institute</p> |
| <p>IFEDC202620762</p> <p>Lite-TCN for Resource-Constrained MCUs: End-to-end Real-Time BFSK Demodulation under Strong In-Band Interference for Electromagnetic Measurement while Drilling</p> <p>Zhong Chengyu, Southwest Petroleum University</p>                                                       |

## Display Screen No.3

### High Water-Cut Oilfields and Remaining Oil Development

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| <p>IFEDC202622689</p> <p>A Rapid Decision-Support Framework for Identifying and Optimizing Infill Well Placement Potential in Giant Heterogeneous Porous Carbonate Reservoirs</p> <p>Wang Lian, Zhenhua Oil Co., Senior Engineer</p>                                           |
| <p>IFEDC202620828</p> <p>Evaluation and Field Application of Intelligent Gel Interlayer Plugging Technology in G Reservoir</p> <p>Rulin Song, PetroChina The First Oil Plant Of Qinghai Oilfield, Senior Engineer</p>                                                          |
| <p>IFEDC202622216</p> <p>Research and Application of Numerical Simulation Methods for Chemical Flooding in S Oilfield</p> <p>Zeng Ziwei, PetroChina Daqing Oilfield Co.</p>                                                                                                    |
| <p>IFEDC202620783</p> <p>Research on Integrity Risk Assessment and Control Technology for Gas Field Water Re-injection Wells</p> <p>Zheng Li, Engineering Technology Research Institute of PetroChina Southwest Oil &amp; Gas Field Company</p>                                |
| <p>IFEDC202620665</p> <p>EOR Technology and Field Application of Group-wide Fluid Huff-Puff in Tight Conglomerate Reservoirs</p> <p>Xu Yajun, Downhole Service Company</p>                                                                                                     |
| <p>IFEDC202621803</p> <p>Application and Effectiveness Evaluation of Equi-Fluidity Profile-Control and Oil-Displacement Technology in Chang2 Reservoir of A Oil Area in Hengshan Oilfield</p> <p>Xiao Peiyao, Research Institute of Shaanxi Yanchang Petroleum (Group) Co.</p> |
| <p>IFEDC202621187</p> <p>A New Approach to the Fine Study of Complex Fluvial Facies Reservoirs Based on Joint Analysis of Logging, Earthquake and Reservoir Information</p> <p>Qie Ying, China National Offshore Oil Corporation (CNOOC) Ltd Tianjin Branch</p>                |

## Complex Structure Wells and Drilling & Completion Technology

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| <p>IFEDC202622306</p> <p>Research and Application of Sand Control Working Fluid for Produced Water in Heavy Oil Reservoir of Bohai Bay D Oilfield</p> <p>Liu Hongyan, Petroleum Engineering Research Institute of PetroChina Dagang Oilfield, Senior Engineer</p> |
| <p>IFEDC202622053</p> <p>Numerical Simulation of Plugging Zone Formation and Evolution in a Fracture</p> <p>Lin Chong, CCDC Drilling &amp; Production Technology Research Institute, Senior Engineer</p>                                                          |
| <p>IFEDC202621324</p> <p>Research and Application of Digital-Intelligent Industrial Control Decision-Making System for Cementing Operations</p> <p>Wang Junfeng, Changqing Cementing Company, Senior Engineer</p>                                                 |
| <p>IFEDC202621146</p> <p>High-efficiency plugging oil-based drilling fluid for drilling horizontal well in deep tight Oil reservoir</p> <p>Jinxia Chen, Production Technology Research Institute of Petrochina JiDong Oilfield, Senior Engineer</p>               |
| <p>IFEDC202620995</p> <p>Dynamics Analysis of Extended Drill Pipe Strings</p> <p>Jinchao Fan, CNPC Engineering Technology R&amp;D Company Limited, Senior Engineer</p>                                                                                            |
| <p>IFEDC202623077</p> <p>Adaptive Soft-Starting and Potential Field Correction Control for PTWD Pulser under Mechanical Limit</p> <p>Wang Xinpeng, Beijing Petroleum Machinery Co.</p>                                                                            |
| <p>IFEDC202622938</p> <p>Experimental Investigation of PDC Rock-Breaking Mechanisms in Tuffaceous Sandstone of the Wenchang Formation, Huizhou Depression</p> <p>Rao Zhihua, CNOOC (China) Co.</p>                                                                |
| <p>IFEDC202622730</p> <p>Multi-factor Coupled Cuttings Transport Mechanism and Parameter Optimization in Offshore Horizontal Wells</p> <p>Yang Zhichao, CNOOC (China) Tianjin Branch</p>                                                                          |

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| IFEDC202622380                                                                                                                                |
| A Multi-Boundary Azimuthal Detection Method for Short-Spacing LWD Azimuthal Electromagnetic Measurement and Its Boundary Detection Capability |
| Xie Xia, CNPC Engineering Technology R & D Company Limited                                                                                    |
| IFEDC202622282                                                                                                                                |
| Investigation and application of two-stage special managed pressure cementing in complex and sensitive formations                             |
| Shen Biao, CNPC Tarim Oilfield Company                                                                                                        |
| IFEDC202622100                                                                                                                                |
| ECD Inversion Method Based on Measured ECD in Wellbore Hole                                                                                   |
| Xia Huanyu , CNOOC EnerTech-Drilling & Production Co.                                                                                         |
| IFEDC202621880                                                                                                                                |
| Research on Dynamic Measurement and Error Compensation Methods for Drilling Attitude Based on Complex Underground Working Conditions          |
| Xiong Xin, CNPC Engineering Technology R&D Company Limited                                                                                    |
| IFEDC202621755                                                                                                                                |
| Preparation and Performance Evaluation of High-Temperature- and High-Salinity-Resistant Lubricants for Drilling Fluids                        |
| Feng Jiahui, Xi'an Shiyou University                                                                                                          |
| IFEDC202621732                                                                                                                                |
| Synthesis and Performance Evaluation of a High-Temperature Shale Inhibitor                                                                    |
| Ren Yongle, Xi'an Shiyou University                                                                                                           |
| IFEDC202621706                                                                                                                                |
| Dynamic Control Method for Reactive Torque Release under Deep Well Pack-Off Conditions                                                        |
| Shi Jiayu, Beijing Petroleum Machinery Co.                                                                                                    |
| IFEDC202621616                                                                                                                                |
| Synthesis and Performance Evaluation of Shale Inhibitor QYP-1 for Water-Based Drilling Fluids                                                 |
| Liu Jianquan, CNPC Engineering Technology R&D Company Limited                                                                                 |

## Display Screen No.4

### Reservoir Fracturing and New Stimulation Technologies

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| <p>IFEDC202621340</p> <p>Optimization Study on Key Parameters of Volumetric Fracturing for Horizontal Wells in Shale Oil of J28 Block</p> <p>He Haibo, Research Institute of Engineering Technology, Senior Engineer</p>                                                                            |
| <p>IFEDC202621262</p> <p>Research and Application of Active Acid Fracturing and Injection Enhancement Technology for Deep Sandstone Reservoirs</p> <p>Zhang Xia, Petrochina JiDong Oilfield Company, Level II Engineer</p>                                                                          |
| <p>IFEDC202620950</p> <p>Application of Precise Refracturing Technology for Enhanced Stimulation in Type III Thin and Poor Reservoirs</p> <p>Song Zhansheng, Daqing oilfield NO.5 Production Plant, Senior Engineer</p>                                                                             |
| <p>IFEDC202620833</p> <p>Mechanism and Zonal Optimization of Horizontal Principal Stress Difference Impact on Proppant Placement in IV Oil Layer of Y Oilfield</p> <p>Song Rulin , PetroChina The First Oil Plant Of Qinghai Oilfield, Senior Engineer of Oil and Gas Field Development</p>         |
| <p>IFEDC202620766</p> <p>High-efficiency drilling and completion techniques for the complex water-bearing gas reservoirs in Qingshimao</p> <p>Zhe Li, Research Institute of Oil Gas Technology Changqing Oilfield, Senior Engineer</p>                                                              |
| <p>IFEDC202620583</p> <p>Temporary Plugging Agents for Reservoir Stimulation: A Comprehensive Review of Classifications, Mechanisms, and Performance Evaluation</p> <p>Song Li , Engineering Technology Research Institute of PetroChina Southwest Oil &amp; Gas Field Company, Senior Engineer</p> |
| <p>IFEDC202623061</p> <p>Interlaboratory Comparison Test of Fracturing Proppants and Analysis of Industrial Testing Capacity</p> <p>Yan Yinqiang, Xinjiang Oilfield Production Technology Research Institute of CNPC</p>                                                                            |
| <p>IFEDC202622903</p> <p>Application of Microseismic Monitoring Technology in Identification of Bridge Plug Anchoring Failure</p> <p>Feng Chao, BGP</p>                                                                                                                                             |

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| <p>IFEDC202622864</p> <p>Research on Inter-fracture Interference Mechanism and Fracturing Parameter Optimization of Coalbed Methane Reservoirs in Qinshui Basin</p> <p>Wang Teng, CNPC Engineering Technology R&amp;D Company Limited</p>                                                                                      |
| <p>IFEDC202622830</p> <p>Research on the Microscopic Occurrence Patterns of gas and Water and Water Control Fracturing Technology in Tight Sandstone water-bearing reservoirs in the Sulige West Area</p> <p>Hao Wang, Drilling engineering Technology Research Institute of petrochina Chuanqing Drilling Engineering Co.</p> |
| <p>IFEDC202622201</p> <p>Research on fracturing diagnosis method based on water hammer effect</p> <p>Bowen Li, Oil Production Technology Research Institute (Supervision Company)</p>                                                                                                                                          |
| <p>IFEDC202622198</p> <p>Optimization of Residual Boron Masking Agents in Fracturing Flowback Fluid and Evaluation of The Application Effectiveness</p> <p>Huang Zimeng, Research Institute of Shaanxi Yanchang Petroleum (Group) Co.</p>                                                                                      |
| <p>IFEDC202622165</p> <p>Sensitivity Analysis of Fracture Parameters in Dense Low-Pressure Reservoirs and Fracturing Optimization</p> <p>Jin Cenhong, Research Institute of Oil &amp; Gas Technology</p>                                                                                                                       |
| <p>IFEDC202622144</p> <p>Study on Far-field Strain Response Characteristics of Offset-well Optical Fiber Monitoring during Hydraulic Fracturing of Ultra-deep Shale Gas Reservoirs in the Qiongzhusi Formation, Sichuan Basin</p> <p>Xiong Zhuang, Shale Gas Research Institute of PetroChina Southwest Oil &amp;</p>          |
| <p>IFEDC202621562</p> <p>Control Mechanism and Feasibility of Preparing Guar Gum Fracturing Fluid with Acid Fracturing Flowback Fluid</p> <p>Liu Yutai, Southwest Petroleum University</p>                                                                                                                                     |
| <p>IFEDC202621151</p> <p>A new model for predicting oil displacement by imbibition after fracturing in tight oil reservoirs</p> <p>Zhu Biwei, Laojunmiao Oil Production Plant</p>                                                                                                                                              |
| <p>IFEDC202621124</p> <p>Research and Application of Efficient System of Proppant Backflow Prevention</p> <p>Xu Weixing , Drilling and Production Engineering and Technology Research Institute</p>                                                                                                                            |

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| IFEDC202621097                                                                                                                                                                                                                                                                                                                  |
| Practical Application of Downhole Microseismic Monitoring Technology in Fracturing Evaluation of Coalbed Methane Horizontal Wells——A Case Study of Changqing Oilfield Z12-11 Platform<br>Lin Xiaobo, Oil and Gas Technology Research Institute of Changqing Oilfield Company                                                    |
| IFEDC202620643                                                                                                                                                                                                                                                                                                                  |
| Study on application of new fluid loss reducer to low pressure gas reservoir in Area S<br>Hong Tan, CCDR DRILLING&PRODUCTION TECHNOLOGY RESEARCH INSTITUTE                                                                                                                                                                      |
| IFEDC202620642                                                                                                                                                                                                                                                                                                                  |
| Experimental Study on Dynamic Oil-Water Sweep Patterns during Reverse Fracturing-Flooding Using a Visual Flat-Plate Model<br>Zhang Tingjun, School of Petroleum Engineering                                                                                                                                                     |
| IFEDC202620573                                                                                                                                                                                                                                                                                                                  |
| Study on numerical simulation of proppants migration and placement in the fractures under different fracturing methods<br>Yanfang Yue, Changqing Downhole Technology Operation Company                                                                                                                                          |
| IFEDC202620559                                                                                                                                                                                                                                                                                                                  |
| Application and Performance of Pre-Fracturing Supercritical CO <sub>2</sub> Combined with Extreme Multi-Stage, Multi-Cluster Volume Fracturing in Ultra-Low Permeability Reservoirs: A Case Study from the Y284 Area, Huaqing Oilfield, Ordos Basin<br>Ce Wang, Petrochina changqing Oilfield Company 10th oil production plant |

## Oil & Gas Production Technology and Intelligent Regulation

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| IFEDC202622962                                                                                                                                                                                                            |
| Study on Wellbore Flow Regularity and Liquid Loading Prediction of Shale Gas Horizontal Wells Based on Three-Fluid Model<br>Ke Wenqi, PEPRIS, Director                                                                    |
| IFEDC202622477                                                                                                                                                                                                            |
| Research and Practice of Permanent Magnet Electric Submersible Pump Lifting Technology in Offshore Oilfields<br>Shang Baobing , Tianjin Branch of CNOOC Ltd, Senior Engineer                                              |
| IFEDC202622114                                                                                                                                                                                                            |
| Research on Simulation Model of Two-Stage Throttling Test Production Process for Ultra-High Pressure Gas Wells<br>Wanbin Wang, Oil Production Technology Research Institute of Xinjiang Oilfield Company, Senior Engineer |

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| <p>IFEDC202621690</p> <p>Study on the Influencing Laws of Microsphere Migration During Steam Injection in Heavy Oil Thermal Recovery Wells</p> <p>Liu Yazhou, Oil Production Technology Research Institute, Senior Engineer</p>                              |
| <p>IFEDC202621550</p> <p>Research on material optimization and structural erosion characteristics of intelligent stratified water injection distributor nozzle</p> <p>Song Xianmin, Petrochina Jidong Oilfield Company, Professor-Level Senior Professor</p> |
| <p>IFEDC202622876</p> <p>Application of One-Drive-Multi Well Cluster Collaborative Jet Drainage Gas Recovery Technology</p> <p>Han Bing, CNPC Chuanqing Drilling Engineering Company Limited</p>                                                             |
| <p>IFEDC202622107</p> <p>Simulation Study on Nozzle Loss of Cabled Intelligent Separate Injection Tool in Bohai Oilfield</p> <p>Jiang Shaojiu , CNOOC (China) Co. Ltd. Tianjin Branch</p>                                                                    |
| <p>IFEDC202621085</p> <p>Study on Formation Mechanism and Classification Control of Pressurized Operation Wells in an Oilfield</p> <p>Chen Si, PetroChina Daqing Oilfield Co.</p>                                                                            |
| <p>IFEDC202620962</p> <p>Flow Pattern Analysis and Research of Oil-Gas Mixed Transportation System Based on PipePhase</p> <p>Zixuan Huang, School of Petroleum Engineering</p>                                                                               |
| <p>IFEDC202620761</p> <p>High-Fidelity Quantification of Liquid Loading Severity in Aging Gas Wells via Physics-Informed Evolutionary Ensemble Learning</p> <p>Pan Yunzhu, Southwestern petroleum university</p>                                             |
| <p>IFEDC202620621</p> <p>Chemical Sand Control Process Evaluation and Field Testing for Unconsolidated Sandstone in the Sebei Gas Field</p> <p>Shijun Ren, PetroChina Qinghai Oilfield Company</p>                                                           |
| <p>IFEDC202620594</p> <p>Study on Productivity Model of Oil-Gas Two-Phase Seepage Flow in Deep and High-Production Fractured-Vuggy Carbonate Reservoirs</p> <p>Jin Ziyi, Sichuan Shale Gas Exploration and Development Company Limited</p>                   |

## Display Screen No.5

### Chemical Flooding and Gas Displacement Technology

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| <p>IFEDC202621186</p> <p>Physical Simulation and Gravity Stabilization Mechanism of Gas Injection in Complex Fault-Block High-Dip-Angle Reservoirs</p> <p>Liu Huaizhu, Jidong Oilfield Exploration and Development Research Institute, Professor-Level Senior Professor</p> |
| <p>IFEDC202620858</p> <p>Study on Emulsifying-Foaming Surfactant System and Its Enhanced Oil Recovery Effect</p> <p>Gao Hao, Oil and Gas Technology Research Institute, Senior Engineer</p>                                                                                 |
| <p>IFEDC202621791</p> <p>Mechanistic Study of Air-Foam Flooding for Enhanced Oil Recovery</p> <p>Zhang Jie, Petrochina ChangQing Oilfield</p>                                                                                                                               |
| <p>IFEDC202621734</p> <p>Study on the mechanism and application of high-efficiency active nano-emulsion huff and puff technology for oil displacement</p> <p>Liu Siqian, Daqing Oilfield Company Limited</p>                                                                |
| <p>IFEDC202621052</p> <p>Experimental Study on Microbubble Stability and Enhanced Oil Recovery in Ultra-Low Permeability Reservoirs</p> <p>Wang Chengwei, Oil &amp; Gas Technology Research Institute</p>                                                                   |

### Shale (Tight) Oil & Gas Exploration and Development

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| <p>IFEDC202622824</p> <p>Characteristics and Development Strategies for Carbonate Gas Reservoirs in the Amu Darya G Gas Field</p> <p>Tian Hongzhao, Geology Research Institute of Great Wall Drilling Company CNPC, Senior Engineer</p> |
| <p>IFEDC202622347</p> <p>Research on Multi-Parameter Mud Logging Dynamic Tracking and Evaluation Method for Continental Clastic Crude Oil Wells in the Sichuan Basin</p> <p>Gao Wubin, CNPC, Senior Engineer</p>                        |

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| <p>IFEDC202622293</p> <p>Characteristics of Tight Sandstone Reservoirs and Horizontal Well Development Practice in Shan 2 Member of Sulige Gas Field</p> <p>Tian Hongzhao, Geology Research Institute of Great Wall Drilling Company CNPC, Senior Engineer</p> |
| <p>IFEDC202621919</p> <p>Risk Assessment of Managed Pressure Drilling for Deep Shale Gas Based on AHP-Entropy Weight Coupling</p> <p>Yang Henglin, CNPC Engineering Technology R&amp;amp, Senior Engineer</p>                                                  |
| <p>IFEDC202622843</p> <p>Dynamic Wellbore Instability Mechanism of Deep Shale Based on Hydro-Mechanical-Chemical Coupling</p> <p>Wang Shuai, Southwest Petroleum University</p>                                                                                |
| <p>IFEDC2026224600</p> <p>Three-Dimensional Simulation of Drill-Bit Rock Breaking in Gulong Shale Oil Reservoirs</p> <p>Li Yuru, Northeast Petroleum University</p>                                                                                            |
| <p>IFEDC202622931</p> <p>Research and Field Application of a Three-Dimensional Geomechanical Model for Deep Shale Gas in Southern Sichuan</p> <p>Yi Gang, Sichuan Changning Gas Development Company of PetroChina Southwest Oil and Gasfield</p>               |
| <p>IFEDC202622669</p> <p>Pore Scale Simulation of CO<sub>2</sub> Displacement for Water Lock Removal after Water Invasion in Methane Bearing Porous Media</p> <p>Ning Chuang, China University of Petroleum (East China)</p>                                   |
| <p>IFEDC202622608</p> <p>Comprehensive Evaluation Method for Geology-Engineering Sweet Spots of Tight Gas Reservoirs Based on Grey Correlation</p> <p>Qiao Kaitong, Lanzhou City University</p>                                                                |
| <p>IFEDC202622131</p> <p>Discussion on Methods for Geological Modeling of Interbedded Shale Oil Reservoirs</p> <p>Jiang Guochao, The eighth Oil Production Plant of Daqing Oilfield</p>                                                                        |
| <p>IFEDC202621167</p> <p>A Robust Framework Based on Machine Learning for Multi-Scale Analysis and Production Prediction in Shale Gas Wells</p> <p>Ni Mingcheng, China university of petroleum (Beijing)</p>                                                   |

## Dynamic Monitoring and Intelligent Reservoir Management

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|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <p>IFEDC202620735</p> <p>Study and Application of Tracer in Fractured-vuggy Carbonate Reservoir</p> <p>Xujian Jiang, PetroChina Tarim Oilfield Company, Senior Engineer</p>                                           |
| <p>IFEDC202622415</p> <p>Application of well testing data in the development of heterogeneous sandstone reservoirs with multiple oil layers</p> <p>Du Kai, The Fourth Oil Production Plant of Daqing Oilfield Co.</p> |
| <p>IFEDC202621107</p> <p>Research on Production Decline Characteristics and Improved Prediction Model of a Gas Reservoir in the Sichuan Basin</p> <p>Rongheng Pu, Southwest Petroleum University</p>                  |
| <p>IFEDC202620636</p> <p>Correlation Analysis Between Formation Pressure and Casing Damage in X Development Zone</p> <p>Yuheng Li, Geological Research Institute of the Fourth Oil Extraction Plant</p>               |

## CCUS and Frontiers of Negative Emission Technologies

|                                                                                                                                                                                                                                                                                                      |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <p>IFEDC202622318</p> <p>Multi-dimensional Monitoring System and Operational Mechanism for CO<sub>2</sub>-EOR Storage Based on RBI Theory</p> <p>Wu Jian, Petrochina, Senior Engineer</p>                                                                                                            |
| <p>IFEDC202621295</p> <p>Key technologies of CO<sub>2</sub> flooding and storage of difficult-to-recover reserves with Carbon peaking and Carbon neutrality target and field application</p> <p>Wang Xin, Exploration and Development Research Institute of Daqing Oilfield Co., Senior Engineer</p> |
| <p>IFEDC202621141</p> <p>Research on the Cement Sheath Sealing Capability Evaluation of CCUS Re-injection Wells in Daqing Oilfield</p> <p>Peng Wang, Daqing Oilfield Production Technology Institute</p>                                                                                             |
| <p>IFEDC202620709</p> <p>Experimental Analysis of Geological Formation Sealing Evaluation for CCUS in the Periphery of Daqing Placanticline</p> <p>Wang Shukun, Research Institute of Exploration and Development, Senior Engineer</p>                                                               |

IFEDC202622262

Research and Pilot Test on Enhanced Oil Recovery Technology by Switching to CO<sub>2</sub> Injection in the Late Stage of Water-Flooding Development of Ultra-Low Permeability Reservoirs

Shu Kun, Research Institute of Exploration and Development, Vice President

IFEDC202621554

Numerical Simulation Study on CO<sub>2</sub> Mineral Trapping in High-Temperature Granite Reservoirs

Huang Xingheng, China University of Petroleum (East China)

### Underground Storage Facilities and Energy Hub Technologies

IFEDC202622721

Research on Digital-Intelligent Upgrade Path of Offshore Reservoir-Type UGS

Lu Wangda, Gas Storage Construction Project Department of Jidong Oilfield, Senior Engineer

IFEDC202621643

Research and Performance Evaluation of a Temporary Plugging Type Well-Killing Fluid for Gas Storage Operations

Ma Yan, PetroChina Jidong Oilfield Company

### Dynamic Monitoring and Intelligent Reservoir Management

IFEDC202620680

Gas field development project multi-objective collaborative optimization model and solution

Fang Yizhu, PetroChina Southwest Oil and Gas Field Company Planning Department, Level I Engineer

## Exhibition Opportunities

Exhibition at IFEDC 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. Your exhibition here would have more opportunity to be seen by all attendees from all over the world.

| Exhibit space cost | Standard space<br>(Regular size : 3m×3m) | Raw space<br>(more than 18 sqm) |
|--------------------|------------------------------------------|---------------------------------|
| Domestic           | CNY 13, 000 / 9 sqm                      | CNY 1, 300 per sqm              |
| Overseas           | USD3, 200/ 9 sqm                         | USD320 per sqm                  |

Note:

1. We will provide some service for standard space, including back & inside walls, carpet, fascia board, one consulting desk, two folding chairs, one light and one panel of power points (220V, 5A);
2. There are no exhibition frames and facilities on the raw space;
3. All exhibitors will be listed in the list of exhibitors on the IFEDC website and conference guide, Besides, the advertising discount will be 15%;
4. One person per booth can participate in all conference activities free of charge;
5. The booth arrangement is based on the principle of "first registration, first payment, first arrangement". The organizing committee has the right to adjust a few booths. Booths are limited, please book in advance (15% off if booked before 16 May, 2025);
6. Priority will be given to which apply more than 4 Space with Shell Scheme (or Raw Space of 32 per sqm);
7. Please ask for the exhibition layout plan from the organizing committee to book the best booth.

## General Information

### 1. Date and Venue

Date: 16-18 September, 2026 ( registration on the 15 Sep, 2026)

Chinese name: 哈尔滨太阳岛花园酒店（全总哈尔滨劳模技能交流基地）

Chinese Address: 哈尔滨市松北区冰花路 869 号

Venue: Harbin Sun Island Garden Hotel (ACFTU Harbin Model Worker Skills Exchange Base)

Address: No. 869 Binghua Road, Songbei District, Harbin, China

### 2. Airport

Harbin Taiping International Airport → Harbin Sun Island Garden Hotel

From Taiping International Airport, walk 1.4 km to the Domestic Terminal. Take Airport Bus Line 1 for 4 stops and get off at Harbin Railway Station. Walk 450 m to the temporary bus stop, then take Bus No. 551 for 2 stops and get off at Taiyang Island Intersection. Walk 1.2 km to the hotel. (By taxi: approximately 40 minutes, around CNY 100.)

### 3. Accommodation

| Hotel                                                                                | Address                                                                 | Cost (per room per night) |
|--------------------------------------------------------------------------------------|-------------------------------------------------------------------------|---------------------------|
| Harbin Sun Island Garden Hotel (ACFTU Harbin Model Worker Skills Exchange Base)      | No. 869 Binghua Road, Songbei District, Harbin, China                   | RMB400                    |
| Harbin Lingchuang Yipin Hotel Management Co., Ltd. Crowne Plaza Harbin Songbei Sunac | No. 233 Fengyuan Street, Shimao Avenue, Songbei District, Harbin, China | RMB400                    |

**Notes for hotel reservation:** All hotel reservations will be based on the registration form submitted.

Additionally, conference attendees may also book accommodations at other hotels on their own.

### 4. Visa

Visa requirements depend on the country of origin. Please check with your travel agent, or the Local Embassy relating to immigration/visa before your departure. An invitation letter to facilitate the application of visa will be issued to registered attendees if required. Please contact us.

### 5. Contact Information

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## Call for Papers IFEDC2027

### Paper Proposal Categories

- Petroleum Geology and Comprehensive Exploration
- Deep and Ultra-Deep Petroleum Geological Theory and Key Technologies for Exploration and Development
- Geophysical Technology and Precision Detection
- Logging Technology and Rock Physics Innovation
- Digital Twin and Intelligent Reservoir Characterization
- High Water-Cut Oilfields and Remaining Oil Development
- Complex Structure Wells and Drilling & Completion Technology
- Reservoir Fracturing and New Stimulation Technologies
- Oil & Gas Production Technology and Intelligent Regulation
- Chemical Flooding and Gas Displacement Technology
- Shale (Tight) Oil & Gas Exploration and Development
- Efficient Development Technology for Heavy Oil and Oil Sands
- Dynamic Monitoring and Intelligent Reservoir Management
- Efficient Development of Coalbed Methane (CBM) and Coal Measure Gas
- CCUS and Frontiers of Negative Emission Technologies
- Underground Storage Facilities and Energy Hub Technologies
- Scientific Computing and Applications of Industrial Large Models

**Chen Abstracts Submission Deadline: 30 April 2027**

**Full papers Submission Deadline: 16 May 2027**

Take this opportunity to showcase your technical knowledge and expertise by submitting a paper. In addition, your paper will be published in the proceedings by the Springer Nature and indexed by EI and Scoups.

### Contact Information

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2027 International Petroleum and Petrochemical Technology Conference  
Beijing China, 16-18 March 2027

# Call for Papers

Zero-Carbon Engines, Digital Intelligent Innovation: Jointly  
Shaping the Value Chain for the Future of Energy

**Session 01:** Exploration and Resource Assessment Techniques

**Session 02:** Efficient Development and Engineering Techniques

**Session 03:** Low-carbon production and new energy integration  
technologies

**Session 04:** Oil and Gas Storage, Transportation and Flow Assurance

**Session 05:** Refining and Petrochemical Production

**Session 06:** Mechanical, Materials and Corrosion Protection  
Technologies

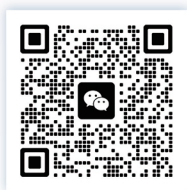
**Session 07:** Digital and Intelligent Oilfield

**Session 08:** Environment Monitoring and Management

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**Theme : Advancing Energy Through People and Technology**

The background is a deep blue gradient with abstract, flowing geometric shapes and lines. Scattered throughout are small, glowing white and light blue dots, some of which form faint, curved paths, suggesting a sense of motion and technology.