



第五届国际深水油气工程前沿技术研讨会 暨第四届国际水合物青年论坛

**The Fifth International Technical Symposium on Deepwater Oil and Gas
Engineering & the Fourth International Youth Forum on Gas Hydrate**

会议指南

Conference Handbook

中国，青岛
Qingdao, China

2023年10月13日-15日
October 13th-15th, 2023



Conference Introduction

The International Technical Symposium on Deepwater Oil and Gas Engineering & the International Youth Forum on Gas Hydrate (DWOG-Hyd) conference has been held for four consecutive sessions. The first four conferences were held in Haikou and Qingdao, China from 2017 to 2021. The number of participants exceeded 2,000. The participants were mainly technical experts from CNOOC, CNPC, and Sinopec, university professors and young scholars mainly from China, some from the USA, UK, Russia, Norway, Singapore, Canada and other countries. The DWOG-Hyd conference has formed some international influence in the field of deep-water oil and gas and hydrate research. The DWOG-Hyd is developing into an important international academic exchange platform for cutting-edge theories and technologies of deep-water oil, gas, and hydrates.

The DWOG-Hyd 2023 is dedicated to build a free exchange platform for scientific workers, technical experts and managers engaged in the development of deep-water oil and gas and hydrate resources and related fields. Participants will discuss the latest achievements in deep-water oil and gas engineering and hydrate research, and looking forward to the development direction of deep-water oil and gas engineering and hydrate research. The DWOG-Hyd 2023 will promote exchanges and cooperation, and jointly push forward the research and technological progress of deep-water oil and gas and hydrate development.

会 议 简 介

国际深水油气工程前沿技术研讨会已连续举办四届，前四届会议于 2017~2021 年在海口和青岛举办，参会人数超过 2000 人，参会人员主要为来自中海油、中石油、中石化的技术专家，国内著名院校的教授和青年学者，和美国、英国、俄罗斯、挪威、新加坡、加拿大等国的院士、教授和行业专家。目前，本会议在深水油气和水合物领域的国际影响力逐年扩大，发展成为深水油气和水合物前沿理论和技术的重要国际学术交流平台。

本届会议致力于为从事深水油气和水合物资源开发及相关领域的科学工作者、技术专家和管理者搭建一个自由交流的平台，研讨在深水油气工程和水合物研究方面的最新成果，展望深水油气工程和水合物研究的发展方向，促进交流与合作，共同推动深水油气和水合物开发的研究和技术进步。

Conference Hosts

Chinese Petroleum Society

Natural Gas Hydrate Professional Committee of China Renewable Energy Society

China University of Petroleum (East China)

National Key Laboratory of Deep Oil and Gas

China-Saudi Belt and Road Joint Laboratory on Petroleum Energy

National Engineering Research Center for Oil and Gas Drilling and Completion Technology

Editorial Board of 《Journal of Hydrodynamics》

Organizers

China University of Petroleum (East China)

CNPC Engineering Technology Research Institute Co., Ltd

Co-organizers

China Geological Survey Guangzhou Marine Geological Survey

CNOOC Research Institute Co., Ltd

CNPC Offshore Engineering Co., Ltd

Guangzhou Institute of Energy Conversion, CAS

South China University of Technology

China University of Geosciences

Dalian University of Technology

China University of Petroleum (Beijing)

Jilin University

AECC Advanced Titanium Alloy Key Laboratory

Support

Ministry of Education of the People's Republic of China

Ministry of Science and Technology of the People's Republic of China

National Natural Science Foundation of China

Science and Technology Management Department of CNPC

Science, Technology and Information Department of CNOOC

主办单位

中国石油学会

中国可再生能源学会天然气水合物专业委员会

中国石油大学（华东）

深层油气全国重点实验室

中国-沙特石油能源“一带一路”联合实验室

油气钻完井技术国家工程研究中心

《Journal of Hydrodynamics》编委会

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中国石油大学（华东）

中国石油集团工程技术研究院有限公司

协办单位

中国地质调查局广州海洋地质调查局

中海油研究总院有限责任公司

中国石油集团海洋工程有限公司

中国科学院广州能源研究所

华南理工大学

中国地质大学

大连理工大学

中国石油大学（北京）

吉林大学

中国航发先进钛合金重点实验室

指导和支持单位

教育部

科技部

国家自然科学基金委员会

中国石油天然气集团有限公司科技管理部

中国海洋石油集团有限公司科技信息部

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一、Conference Notice（会议须知）

Dear Delegates,

Welcome to the Fifth International Technical Symposium on Deepwater Oil and Gas Engineering & the Fourth International Youth Forum on Gas Hydrate. During the conference, please pay attention to the following matters:

尊敬的与会领导、各位代表：

欢迎您参加第五届国际深水油气工程前沿技术研讨会暨第四届国际水合物青年论坛。会议期间，请您注意以下事项：

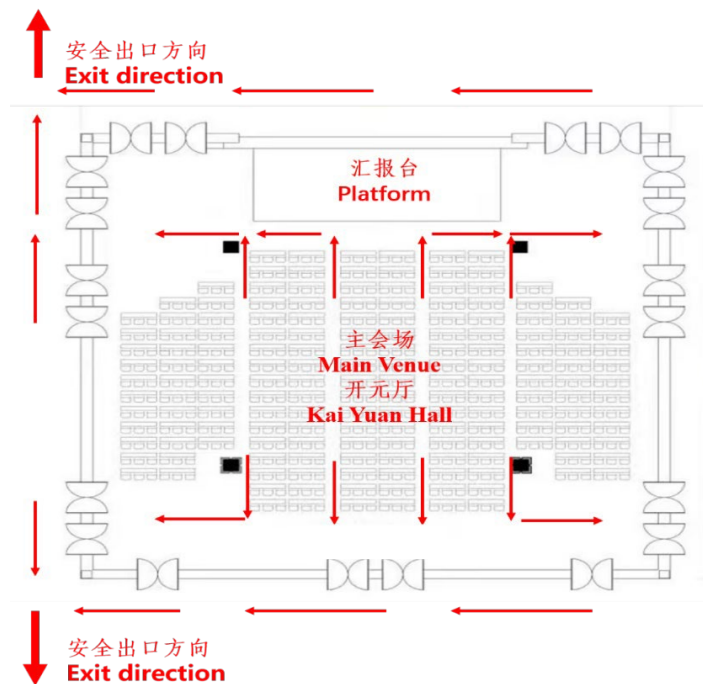
（一）、HSE 提示

1、Fire 火灾

（1）Evacuation 逃生须知

There are several exits in the venue. In case of emergency, please leave the venue through the nearest exit and exit through the safe passage on the floor. Do not take the elevator. The map of the main conference venue is shown in the following figure:

会场有多个出口，如遇紧急情况，请从最近的出口离开会场，并从楼层的安全通道离开，请勿搭乘电梯。会议主会场地图如下图所示：



(2) Escape methods 逃生方法

① Pay attention to the location of the safe passage and go to the nearest escape route 注意安全通道地点，前往最近的逃生通道；

② Try not to cross thick smoke areas as much as possible. If necessary, use a wet towel to cover your mouth and nose to avoid inhaling thick smoke and toxic gases. You should crawl along the wall to escape 尽可能不要穿越浓烟区，必要时可使用湿毛巾捂住口鼻，避免吸入浓烟及有毒气体，应沿墙根爬行逃生；

③ When leaving the venue or passing through any door, please first touch the door panel and handle with the back of your hand. If you feel hot, do not open the door and take other escape routes 离开会场或通过任一道门时，请先用手背触摸门板、把手，如感烫手，切勿开门，应走其他逃生路线；

④ Escape using stairs, do not take elevators 采用楼梯逃生，切勿搭乘电梯。

(3) Asylum for rescue 避难待救

① If there is a fire outside the venue, plug the door gap with a damp cloth 若会场外发生火灾，用湿布塞住门缝；

② Close the door tightly and turn off the air conditioning system 将门关紧，关闭空调系统；

③ Make a phone call or wave a flashlight or brightly colored clothing to inform people outside to wait for help in an easily accessible area 打电话或挥动手电筒、鲜艳衣物告知外面的人，在易获救处待救。

2、Others 其他

Travel safety 出行安全：

(1) If you go out on foot, please pay attention to the traffic. If you go out by car, please fasten your seat belt 您如果步行外出请注意来往车辆，若乘车外出请您系好安全带；

(2) Please go out together and call passersby or companions to make emergency

calls in case of danger 请结伴外出，如遇危险呼叫路人或同伴拨打紧急电话；

(3) If you feel unwell, please seek medical attention promptly or contact the conference team 如感到身体不适，请及时就医或与会务组联系。

(二)、Conference Agenda 会议日程

October 13th/10 月 13 日: Reception 报到、现场注册；

October 14th morning/10 月 14 日上午: Opening Ceremony and Plenary Speech
会议开幕式、大会报告；

October 14th afternoon/10 月 14 日下午: Plenary Speech and Posters 大会报告、
墙报展示；

October 15th morning/10 月 15 日上午: Oral Sessions 分组报告；

October 15th afternoon/10 月 15 日下午: Oral Sessions and Dialogues 分组报
告、青年先锋对话。

(三)、Conference Location 会议地点

Location: Qingdao Kaiyuan Mingdu Hotel, No. 230 Changjiang Middle Road,
Huangdao District, Qingdao, Shandong Province

地点: 山东省青岛市黄岛区长江中路 230 号青岛开元名都大酒店；

Venue:

On the 14th, the Kaiyuan Hall of Qingdao Kaiyuan Mingdu Hotel (6th floor)

On the 15th, the Jinyuan Hall, Boai Hall, and Guihe Hall of Qingdao Kaiyuan
Mingdu Hotel (6th floor)

会场: 14 日, 青岛开元名都大酒店 (六层) 开元厅；

15 日, 青岛开元名都大酒店 (六层), 锦元厅、博爱阁、贵和阁。

The floor plan of the conference area is shown in the following figure:

会议区域平面图如下图所示:

(五)、Notice 注意事项

1、The working languages of the conference are English and Chinese 会议工作语言为英文和中文；

2、 Please attend the conference on time, comply with the arrangement of the conference, abide by the schedule and relevant regulations of the hotel 请按时到会，服从会议统一安排，遵守作息时间和酒店的有关规定；

3、Smoking is prohibited in the venue. Please set your phone to silent mode during the meeting, and when answering or making calls, please go outside the meeting room 会场禁止吸烟，会议期间请将手机设置为静音状态，接打电话请到会议室外；

4、Photography, audio recording, and video recording are prohibited in the main venue and each branch venue of the conference 会议主会场和各分会场内禁止拍照、录音、录像。

(六)、Tips 温馨提示

Please pay attention to weather changes and rest appropriately to maintain your health 会议期间请您注意天气变化，适当休息，以保持健康。

时间 (Time)	天气 (Weather)	温度 (Temperature)
13 日 (13 th)	多云 Cloudy 	14~22°C
		57.2°F~71.6°F
14 日 (14 th)	晴 Clear 	15~25°C
		59°F~77°F
15 日 (15 th)	晴 Clear 	10~25°C
		50°F~77°F

(七)、Contact 会议联系人

Litao Chen (陈立涛), Cell (电话): 17863903968, Email (电子邮件): Chenlt@upc.edu.cn

Hao Li (李昊), Cell (电话): 18954231978, Email (电子邮件): upc-lihao@upc.edu.cn

Ni Fan (范妮), Cell (电话): 15266236591

二、Committees (组委会和学术委员会)

1. Conference Committee (大会组委会)

Chairs (主席):

Jinsheng Sun (孙金声), China University of Petroleum (East China) (中国石油大学(华东))

Baojiang Sun (孙宝江), China University of Petroleum (East China) (中国石油大学(华东))

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Caili Dai (戴彩丽), China University of Petroleum (East China) (中国石油大学(华东))

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Shuxia Li (李淑霞), China University of Petroleum (East China) (中国石油大学(华东))

Xiaosen Li (李小森), Guangzhou Institute of Energy Conversion (广州能源研究所)

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Zheng Ma (马峥), Editorial Board of 《Journal of Hydrodynamics》

Xuwen Qin (秦绪文), China Geology Survey (中国地质调查局)

Yongchen Song (宋永臣), Dalian University of Technology (大连理工大学)

Hongshu Wei (韦红术), CNOOC Shenzhen Branch (中海石油(中国)有限公司深圳分公司)

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Wenwei Xie (谢文卫), Guangzhou Marine Geology Survey (广州海洋地质调查局)

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Jiafang Xu (徐加放), China University of Petroleum (East China) (中国石油大学(华东))

Yongfei Yang (杨永飞), China University of Petroleum (East China) (中国石油大学(华东))

2. Youth Hydrate Forum Committee (水合物青年论坛组委会)

Chairs (主席):

Zhiyuan Wang (王志远), China University of Petroleum (East China) (中国石油大学(华东))

Litao Chen (陈立涛), China University of Petroleum (East China) (中国石油大学(华东))

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Wei Guo (郭威), Jilin University (吉林大学)

Ke Ke (柯珂), SINOPEC RIPE (中国石化集团石油工程技术研究院有限公司)

Gang Li (李刚), Guangzhou Institute of Energy Conversion (广州能源研究所)

Hangyu Li (李航宇), China University of Petroleum (East China) (中国石油大学(华东))

Hao Li (李昊), China University of Petroleum (East China) (中国石油大学(华东))

Gaowei Hu (胡高伟), Qingdao Institute of Marine Geology (青岛海洋地质研究所)

Ju Dong Lee, Korea Institute of Industrial Technology

Praveen Linga, National University of Singapore (新加坡国立大学)

Changling Liu (刘昌岭), Qingdao Institute of Marine Geology (青岛海洋地质研究所)

Shuyang Liu (刘树阳), China University of Petroleum (East China) (中国石油大学(华东))

Cheng Lu (陆程), China Geology Survey (中国地质调查局)

Fulong Ning (宁伏龙), China University of Geoscience (Wuhan) (中国地质大学(武汉))

Xueyu Pang (庞学玉), China University of Petroleum (East China) (中国石油大学(华东))

Weixin Pang (庞维新), CNOOC Research Institute Co., Ltd (中海油研究总院有限责任公司)

Zhengfeng Shan (单正峰), CNPC Offshore Engineering Company(中石油海洋工程公司)

Xianzhi Song (宋先知), China University of Petroleum (Beijing) (中国石油大学(北京))

Xiaohui Sun (孙小辉), China University of Petroleum (East China) (中国石油大学(华东))

Jintang Wang (王金堂), China University of Petroleum (East China) (中国石油大学(华东))

Ren Wang (王韧), CNPC Engineering Technology Research Institute (中石油工程院)

Xuerui Wang (王雪瑞), China University of Petroleum (East China) (中国石油大学(华东))
Hongzhi Xu (徐鸿志), CNPC Offshore Engineering Company(中石油海洋工程公司)
Zizhen Wang (王子振), China University of Petroleum (East China) (中国石油大学(华东))
Hua Xiang (相华), Beijing Institute of Technology (北京理工大学)
Bangtang Yin (尹邦堂), China University of Petroleum (East China) (中国石油大学(华东))
Mingjun Yang (杨明军), Dalian University of Technology (大连理工大学)
Jiafei Zhao (赵佳飞), Dalian University of Technology (大连理工大学)
Jie Zhong (钟杰), China University of Petroleum (East China) (中国石油大学(华东))

3. Scientific Committee (学术委员会)

Chairs (主席团):

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Shouwei Zhou (周守为), CNOOC (中国海洋石油集团有限公司)
Deli Gao (高德利), China University of Petroleum (Beijing) (中国石油大学(北京))
Yang Li (李阳), SINOPEC (中国石油化工集团有限公司)
Fang Hao(郝芳), China University of Petroleum (East China) (中国石油大学(华东))
Gensheng Li (李根生), China University of Petroleum (Beijing) (中国石油大学(北京))
He Liu (刘合), RIPED (中国石油勘探开发研究院)
Youhong Sun (孙友宏), China University of Geosciences (中国地质大学(北京))
Yuhong Xie (谢玉洪), CNOOC (中国海洋石油集团有限公司)
Fengyin Xu (徐凤银), Chinese Petroleum Society (中国石油学会)

Members(alphabet sequence) (委员会成员, 按姓名首字母排序) :

Bernt S. Aadnoy, University of Stavanger
Vasily Bogoyavlenskiy, Institute of Petroleum and Natural Gas Research, RAS
Guoming Chen (陈国明), China University of Petroleum (East China) (中国石油大学(华东))
Xingliang Dong (董星亮), CNOOC (中国海洋石油集团有限公司)
Peter Englezos, University of British Columbia
Baitao Fan (范柏涛), CNOOC (中国海洋石油集团有限公司)
George Moridis, Texas A&M University / Lawrence Berkeley National Laboratory

Tiantai Li (李天太), Xi'an Shiyou University (西安石油大学)

Xiaosen Li (李小森), Guangzhou Institute of Energy Conversion (广州能源研究所)

Qingyou Liu (刘清友), Chengdu University of Technology (成都理工大学)

Baoping Lu (路保平), SINOPEC RIPE (中国石化集团石油工程技术研究院有限公司)

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Bahman Tohidi, Heriot-Watt University

Nengyou Wu (吴能友), Qingdao Institute of Marine Geology (青岛海洋地质研究所)

Jianliang Ye (叶建良), China Geology Survey (中国地质调查局)

Jianliang Zhou (周建良), CNOOC (中国海洋石油集团有限公司)

Xiaohua Zhu (祝效华), Southwest Petroleum University (西南石油大学)

三、Conference Agenda (会议日程)

The Fifth International Technical Symposium on Deepwater Oil and Gas

Engineering & the Fourth International Youth Forum on Gas Hydrate

Conference Agenda

第五届国际深水油气工程前沿技术研讨会暨第四届国际水合物青年论坛

会议日程

(一)、Conference Agenda 会议日程

1、Opening Ceremony and Plenary Speech 开幕式和大会报告

10 月 14 日（周六） October 14 th , Saturday			
开幕式/Opening Ceremony 地点：青岛开元名都大酒店（六层）开元厅 Venue: Kaiyuan Hall of Qingdao Kaiyuan Mingdu Hotel (6 th Floor)			
时间/Time	活动/Activities		执行主席/ Executive Chairman
8:15-8:20	Safety and Tips 安全提示及嘉宾介绍		Prof. Baojiang Sun China University of Petroleum (East China) 孙宝江 教授 中国石油大学 （华东）
8:20-8:25	Address from UPC Leaders (Caili Dai, Vice President) 中国石油大学（华东）领导致辞（戴彩丽，副校长）		
8:25-8:30	Address from CPS Leaders (Fengyin Xu, Vice President and Secretary General) 中国石油学会领导致辞（徐凤银，副理事长兼秘书长）		
8:30-8:35	Introduction on DWOG-Hyd 2023 (Jinsheng Sun, CAE Academician) DWOG-Hyd 2023 会议情况简介（孙金声，中国工程院院士）		
大会报告/ Plenary Speech 地点：青岛开元名都大酒店（六层）开元厅 Venue: Kaiyuan Hall of Qingdao Kaiyuan Mingdu Hotel (6 th Floor)			
时间/Time	报告题目/Title of Speech	报告人/Speaker	执行主席/ Executive Chairman

8:35-9:05	Research Progress on Drilling and Production Mechanism and Regulation of Natural Gas Hydrates in the South China Sea 南海天然气水合物钻采机理与调控研究进展	Jinsheng Sun Academician China University of Petroleum (East China) 孙金声 院士， 中国石油大学（华东）	Prof. Baojiang Sun China University of Petroleum (East China) 孙宝江 教授 中国石油大学（华东）
9:05-9:35	Advancements in Offshore Drilling Digitalization in Norway 挪威海上钻井数字化进展	Bernt S. Aadnoy 院士， University of Stavanger, Norway 挪威斯塔万格大学	
9:35-9:55	Group Photo and Coffee Break 合影与茶歇		
9:55-10:25	Degassing of the earth in the Arctic: natural and man-made catastrophic gas blowouts and explosions (onshore and offshore) 北极地区的地球脱气：自然和人为的灾难性气体井喷和爆炸（陆上和海上）	Vasily I. Bogoyavlensky 通讯院士， Institute of Petroleum and Natural Gas Research, Russian Academy of Sciences 俄罗斯科学院石油天然气研究所	Prof. Nengyou Wu Qingdao Institute of Marine Geology 吴能友 研究员 青岛海洋地质研究所
10:25-10:45	Energy Transition and the Future of Oil and Gas 能源转型与石油和天然气的未来	Prof. George Moridis, Texas A&M University/Lawrence Berkeley National Laboratory, USA 美国德克萨斯农机大学/劳伦斯伯克利国家实验室	
10:45-11:05	Innovation and practice of key technologies for drilling and completion of ultra-deep water oil and gas exploration and development in the South China Sea 南海超深水油气勘探开发钻完井关键技术创新与实践	Prof. Shujie Liu, Deputy General Manager and Chief Engineer (Drilling and Completion), Hainan Branch of CNOOC (China) Co., Ltd 刘书杰 副总经理兼总工程师（钻完井）， 中海石油（中国）有限公司海南分公司	

11:05-11:25	Research Progress and Prospect on Deepwater Flow Assurance 深水流动保障研究进展与展望	Prof. Qingping Li Hydrate and Marine Resources Strategic Research Center, CNOOC Research Institute 李清平 教授， 中海油研究总院水合物和海洋资源战略研究中心	Prof. Zheng Ma Editorial Board of 《 Journal of Hydrodynamics》 马 峰 研究员 《 Journal of Hydrodynamics》编委会
11:25-11:45	Efficient Well Construction Method for Deep Water Hydrate Mining 深水水合物开采高效建井方式	Prof. Jin Yang China University of Petroleum (Beijing) 杨进 教授， 中国石油大学（北京）	
11:45-12:15	Gas hydrate crystallization: is there an opportunity for CO2 capture and storage (Online) 天然气水合物结晶：是否有机会捕获和储存二氧化碳	Peter Englezos 院士， The University of British Columbia, Canada 加拿大不列颠哥伦比亚大学	
12:15-14:30	午餐、午休/Lunch and Break		
14:30-14:50	Deeper and Longer through Digital Technologies @Scale, @Speed, @ Edge and @ Realtime	Robello Samuel 技术首席， 美国哈里伯顿公司 Halliburton, USA	Prof. Guangjin Chen China University of Petroleum (Beijing) 陈光进 教授 中国石油大学（北京）
14:50-15:10	Intelligent Well Killing Method for Complex Pressure System Formation 复杂压力体系地层智能压井方法	Prof. Baojiang Sun China University of Petroleum (East China) 孙宝江 教授 中国石油大学（华东）	
15:10-15:30	Clathrate Hydrates: A Cool Way to Capture and Store CO2	Praveen Linga 教授， 新加坡国立大学 National University of Singapore	
15:30-15:50	茶歇/Coffee and Break		

15:50-16:10	Hydrate-Based Water Treatment and In-Situ Raman Analysis for Oil & Gas Field	Ju Dong Lee 教授， 韩国工业技术研究院 Korea Institute of Industrial Technology	Prof. Fulong Ning China University of Geosciences (Wuhan) 宁伏龙 教授 中国地质大学（武汉）
16:10-16:30	Research progress in prevention and control technologies for major safety accidents in offshore oil and gas extraction 海洋油气开采重大安全事故防控技术研究进展	Dr. Zhiming Yin, Principal Well Control Engineer CNOOC Research Institute 殷志明 井控首席 中海油研究总院有限责任公司	
16:30-16:50	Prediction and Efficient Prevention Technology for Hydrate Blockage in Complex Flow Channels 复杂流道水合物堵塞预测及有效预防技术	Prof. Zhiyuan Wang China University of Petroleum (East China) 王志远 教授， 中国石油大学（华东）	
16:50-17:10	Why Having a “Hydrate Blockage Removal” Can be Useful in Deepwater?	Bahman Tohidi 教授， 英国赫瑞瓦特大学 Heriot-Watt University, UK	
17:10-18:00	展板交流/Posters		

10 月 15 日（周日）
October 15th, Sunday

分会场报告/Oral Sessions

地点：青岛开元名都大酒店（六层）锦元厅、贵和厅、博爱厅

Venue: Jinyuan Hall, Guihe Hall and Boai Hall of Qingdao Kaiyuan Mingdu Hotel (6th Floor)

时间/Time	活动/Activities	地点/Location	执行主席 Executive Chairman
8:30-11:45	Session 1: Drilling and Completion 分会场 1: 钻井与完井	Jinyuan Hall 锦元厅	Ren Wang(王韧) Zizhen Wang (王子振) Jintang Wang (王金堂)
8:30-12:20	Session 2: Fundamentals of Clathrate Hydrate 分会场 2: 水合物基础	Guihe Hall 贵和阁	Bangtang Yin (尹邦堂) Zhi Li (李智) Jianbo Zhang (张剑波)
8:30-12:05	Session 3: NGH Exploitation 分会场 3: 天然气水合物开发	Boai Hall 博爱阁	Shengli Li(李胜利) Shuyang Liu(刘树阳) Jingsheng (卢静生)
12:15-14:00	午餐、午休/Lunch and Break		
14:00-16:40	Session 4: Oil and Gas Flow Assurance 分会场 4: 油气开发流动保障	Guihe Hall 贵和阁	Zhongjin He (贺仲金) Hao Li (李昊) Xuerui Wang(王雪瑞)
14:00-16:35	Session 5: Emerging Technologies based on Gas Hydrate 分会场 5: 水合物新技术	Boai Hall 博爱阁	Yanhong Wang (王燕鸿) Junjie Zheng
16:40-17:40	Session 6: Dialogue with Youth Pioneers 分会场 6: 青年先锋对话	Jinyuan Hall 锦元厅	Zhengyuan Yin (殷振元)

2、Oral Sessions 口头报告

10 月 15 日, 8:30-12:00/October 15 th , 8:30-12:00				
分会场 1: 钻井与完井, 地点: 锦元厅 (第 1 会议室) Session 1: Drilling and Completion, Location: Jinyuan Hall (Conference Room 1)				
Chairs: Ren Wang, Zizhen Wang and Jintang Wang 分会场主席: 王韧、王子振、王金堂				
No. 序号	Time 时间	Name 姓名	Institution 单位	Title 报告题目
1	8:30-8:50	Yonghai Gao 高永海	China University of Petroleum (East China) 中国石油大学 (华东)	Analysis of temperature and pressure in deep water gas hydrate formation drilling and its influence on drilling safety 深水天然气水合物地层钻井温度压力分析及其对钻井安全的影响研究
2	8:50-9:10	Xiaohui Sun 孙小辉	China University of Petroleum (East China) 中国石油大学 (华东)	Modeling and application of supercritical-gas-liquid-hydrate multiphase variable flow in deep water drilling wellbore 深水钻井井筒超临界-气-液-水合物多相变流动模型及应用
3	9:10-9:30	Xiuquan Liu 刘秀全	China University of Petroleum (East China) 中国石油大学 (华东)	Development of analysis software for deepwater drilling riser and subsea wellhead system 开发深水钻井隔水管和海底井口系统分析软件
4	9:30-9:45	Xiaodong Yu 于晓东	Hainan Branch of CNOOC (China) Co., Ltd 中海石油 (中国) 有限公司海南分公司	Prediction and Analysis of ECD for Deep Water Hydrate Formation Drilling with Riser 使用隔水管进行深水水合物地层钻探的 ECD 预测与分析

5	9:45-10:00	Guanlong Ren 任冠龙	Zhanjian Branch of CNOOC (China) Co., Ltd 中海石油（中国）有限公司湛江分公司	Optimization of Hydrate Inhibition Performance for Deep Water Shallow Drilling Fluid 优化深水浅层钻井液的水合物抑制性能
	10:00-10:15	Coffee Break/茶歇		
6	10:15-10:30	Xinxin Zhao 赵欣欣	China University of Petroleum (East China) 中国石油大学（华东）	Experimental study on the transportation characteristics of gas intrusion into wellbore in deepwater environment 深水环境下气体侵入井筒运移特性实验研究
7	10:30-10:45	Xin Yu 于鑫	China University of Petroleum (East China) 中国石油大学（华东）	Research on Prediction and Control of A-Annular Pressure Buildup of Deepwater Gas Wells at the Initial Stage of Production 生产初期深水气井 A-Annular 压力积累预测与控制研究
8	10:45-11:00	Xin Wang 王欣	China University of Petroleum (East China) 中国石油大学（华东）	Design of anti-icing structure for mud return pipelines in broken ice field 碎冰区泥浆回流管道的防冰结构设计
9	11:00-11:15	Yue Xiao 肖悦	China University of Petroleum (East China) 中国石油大学（华东）	Development of subsea acceleration monitoring system for marine risers 为海洋立管开发海底加速度监测系统
10	11:15-11:30	Shuxin Han 韩树鑫	China University of Petroleum (East China) 中国石油大学（华东）	Numerical simulation of the interaction between deep water suction anchor installation and pore pressure of shallow ocean hydrate reservoirs 深水吸水锚安装与浅海水合物储层孔隙压力相互作用的数值模拟
11	11:30-11:45	Ke Zhao 赵珂	China University of Petroleum (East China) 中国石油大学（华东）	Multi-physics field coupling analysis for deepwater hydrate reservoir drilling 深水水合物储层钻探的多物理场耦合分析

10 月 15 日, 8:30-12:00/October 15th, 8:30-12:00

分会场 2: 水合物基础, 地点: 贵和阁 (第 2 会议室)
Session 2: Fundamentals of Clathrate Hydrate, Location: Guihe Hall (Conference Room 2)

Chairs: Bangtang Yin, Zhi Li and Jianbo Zhang
分会场主席: 尹邦堂、李智、张剑波

No. 序号	Time 时间	Name 姓名	Institution 单位	Title 报告题目
1	8:30-8:50	Jie Zhong 钟杰	China University of Petroleum (East China) 中国石油大学 (华东)	Study on the mechanism of natural gas hydrate inhibitor action 天然气水合物抑制剂作用机理研究
2	8:50-9:10	Chenlu Xu 许辰璐	Guangzhou Marine Geological Survey 广州海洋地质调查局	Preliminary study on in-situ microscopic occurrence of natural gas hydrate deposits in the South China Sea 南海天然气水合物矿床原位微观发生的初步研究
3	9:10-9:25	Jingsheng Lu 卢静生	Guangzhou Energy Research Institute 广州能源研究所	Study on the mechanism of hydrate decomposition on mud and sand in South China Sea sediments 南海沉积物中水合物分解对泥砂作用机制的研究
4	9:25-9:40	Xiaodong Shen 申小冬	Chengdu University of Technology 成都理工大学	Experimental characterization of hydrate membrane growth and expansion at the liquid interface 气液界面水合物膜生长拓展特性实验研究

4	9:40-9:55	Yajun Deng 邓亚骏	Shenzhen University of Technology 深圳技术大学	Effect of mineral surface on the formation and dissociation of gas hydrate between two parallel substrates 矿物表面对两种平行基质之间气体水合物的形成和解离的影响
5	9:55-10:10	Zhi Li 李智	China University of Petroleum (Beijing) Keramayi Campus 中国石油大学（北京）克拉 玛依校区	Methane hydrate decomposition and secondary production in silica-constrained slits 二氧化硅受限狭缝中甲烷水合物分解及二次生成
	10:10-10:20	茶歇/Coffee Break		
6	10:20-10:35	Yan li 李艳	Tsinghua University Shenzhen International Graduate School 清华大学深圳国际研究生院	Exploring the coupling of magnesium with amino acid for rapid CO ₂ hydrate nucleation and growth kinetics 探索镁与氨基酸在二氧化碳水合物快速成核和生长动力学中的耦合作用
7	10:35-10:50	Chen Yong 陈勇	Guangzhou Energy Research Institute 广州能源研究所	Molecular Mechanism of CO ₂ Hydrate Generation in Salt Solutions 盐溶液中 CO ₂ 水合物生成的分子机理研究
8	10:50-11:05	Junjie Ren 任俊杰	Tsinghua University Shenzhen International Graduate School 清华大学深圳国际研究生院	Effects of marine clay minerals on the thermodynamics and kinetics of CH ₄ hydrate 海洋粘土矿物对甲烷水合物热力学和动力学的影响
9	11:05-11:20	Yifan Eong 翁一凡	Guangzhou Energy Research Institute, Chinese Academy of Sciences 中国科学院广州能源研究 所	Study on the dissociation and formation of hydrate formed by mixed gas of methane and ethane in porous media 关于甲烷和乙烷混合气体在多孔介质中解离和形成水合物的研究

11	11:20-11:35	Jidong Zhang 张吉东	Tsinghua University Shenzhen International Graduate School 清华大学深圳国际研究 生院	Examining CH ₄ hydrate kinetic behavior with micro gas bubbles evolution at pore-scale using a high-pressure microfluidic chip 利用高压微流控芯片研究孔隙尺度上微小气泡演化的 CH ₄ 水合物动力学行为
12	11:35-11:50	Shu Wu	South China University of Technology 华南理工大学	Molecular Dynamics Simulation Study of Hydrogen Hydrate Formation in the Presence of Electric Field 电场作用下氢气水合物形成的分子动力学模拟研究
13	11:50-12:05	Jie Chen 陈杰	China University of Petroleum (East China) 中国石油大学（华东）	Molecular insight into the effects of NaCl concentrations on CO ₂ hydrate formation on the montmorillonite surface 从分子角度洞察 NaCl 浓度对蒙脱石表面二氧化碳水合物形成的影响
14	12:05-12:20	Bowen Wang 王博闻	China University of Petroleum (East China) 中国石油大学（华东）	A visual investigation of the phase transition of cyclopentane hydrates in porous media under the influence of electrostatic field 多孔介质中环戊烷水合物在静电场影响下的相变直观研究
15	12:20-12:35	Jun Duan 段军	Tsing Hua or Qinghua University, Beijing 清华大学	Adsorption of ZIF-8 enhances CH ₄ transport-driven hydrate formation: microscopic mechanism for CH ₄ storage by adsorption-hydration hybrid technology ZIF-8 的吸附增强了甲烷迁移驱动的水合物形成：吸附-水合混合技术储存甲烷的微观机制

10 月 15 日, 8:30-12:00/October 15th, 8:30-12:00

分会场 3: 天然气水合物开发, 地点: 博爱阁 (第 3 会议室)
Session 3: NGH Production Experiments, Location: Boai Hall (Conference Room 3)

Chairs: Shengli Li, Shuyang Liu and Jingsheng Lu
分会场主席: 李胜利、刘树阳、卢静生

No. 序号	Time 时间	Name 姓名	Institution 单位	Title 报告题目
1	8:30-8:50	Yuanping Li 李元平	CNOOC Deep Sea Development Co., Ltd 中海石油深海开发有限公 司	Process response of interaction between gravity flow and underflow and its controlling effect on hydrate reservoir in the eastern Lupocanyon area of Baiyun Depression 白云凹陷陆坡峡谷区东段重力流与底流交互作用过程响应及其对水合物储层的 控制作用
2	8:50-9:10	I.V. Bogoyavlensky	Institute of Petroleum and Natural Gas Research, Russian Academy of Sciences 俄罗斯科学院石油和天然 气研究所	Features of conducting and main expeditions to the Arctic in 2014-2023 2014-2023年北极考察开展特点及主要考察项目
3	9:10-9:25	Zhenyuan Yin	Tsinghua University 清华大学	Insights into the 2017 Japan Nankai Trough 2nd offshore field production tests via numerical modelling with history-matching 通过历史匹配数值模拟分析2017年日本南开海槽第二次海上油田生产试验
4	9:25-9:40	Jinfeng Ren 任金锋	Guangzhou Marine Geological Survey 广州海洋地质调查局	Origin of Gas Hydrates Occurrences in the Venting Systems in the Qiongdongnan Basin, Northern South China Sea 南海北部琼东南盆地通风口系统天然气水合物赋存成因

5	9:40-9:55	Haoxian Shi 史浩贤	Guangzhou Marine Geological Survey 广州海洋地质调查局	Micro-force characterization of particles: preliminary insights for hydrate production and flow assurance 颗粒尺度微力表征:基于水合物开采和流动保障的初步认识
6	9:55-10:10	Hongyu Ye 叶鸿宇	Tsinghua University 清华大学	The effect of various well types in marine natural gas hydrate production: capacity enhancement analysis 不同井型在海洋天然气水合物生产中的作用:产能提升分析
	10:10-10:20	茶歇/Coffee Break		
7	10:20-10:35	Yangyang Zhang 张洋洋	China University of Petroleum (East China) 中国石油大学(华东)	Effects of hydrate saturation and sand-filling size on hydrate exploitation using in-situ heat supply with chemical reagents 水合物饱和度和填砂粒度对化学试剂原位供热开采水合物的影响
8	10:35-10:50	Hao Sun 孙昊	China University of Petroleum (East China) 中国石油大学(华东)	Geomechanical response analysis of gas hydrate extraction using CO ₂ hydrate sealing burdens 采用CO ₂ 水合物密封载荷提取天然气水合物的地质力学响应分析
9	10:50-11:05	Junhao Liu 刘君昊	China University of Petroleum (East China) 中国石油大学(华东)	Study on the movement pattern of the dissociation front of natural gas hydrate 天然气水合物解离锋面运动模式研究
10	11:05-11:20	Chenfeng Liu 刘晨枫	China University of Petroleum (East China) 中国石油大学(华东)	Conception and test validation of a new multi-capacity composite pre-filled screen for natural gas hydrate reservoir 一种新型多容量天然气水合物储层复合预充筛的构想及试验验证
11	11:20-11:35	Yang Guo 郭洋	China University of Petroleum (East China) 中国石油大学(华东)	Numerical simulation of gas production from marine hydrate reservoir by depressurization assisted CO ₂ replacement 减压辅助CO ₂ 置换的海洋水合物气藏产气数值模拟
12	11:35-11:50	Xiao Yu 于笑	China University of Petroleum (East China) 中国石油大学(华东)	Prediction of gas production dynamic of natural gas hydrate reservoirs based on neural network 基于神经网络的天然气水合物储层产气动态预测

10 月 15 日, 14:00-16:00/October 15th, 14:00-16:00

分会场 4: 油气开发流动保障, 地点: 贵和阁 (第 2 会议室)

Session 4: Flow Assurance in Oil and Gas Production, Location: Guihe Hall (Conference Room 2)

Chairs: Zhongjin He, Hao Li and Xuerui Wang

分会场主席: 贺仲金、李昊、王雪瑞

No. 序号	Time 时间	Name 姓名	Institution 单位	Title 报告题目
1	14:00-14:20	Zhongjin He 贺仲金	China University of Geosciences (Wuhan) 中国地质大学 (武汉)	Molecular simulation study on the adsorption of aromatic carboxylic acids to methane hydrate surfaces: implications for hydrate antiagglomeration 芳香族羧酸在甲烷水合物表面吸附的分子模拟研究:水合物反团聚的意义
2	14:20-14:40	Guangming Fu 付光明	China University of Petroleum (East China) 中国石油大学 (华东)	Collapse and collapse propagation behaviour of sandwich pipes 夹层管压溃与屈曲传播行为
3	14:40-14:55	Zhongying Xu 徐中英	China University of Petroleum (East China) 中国石油大学 (华东)	Bionic Anti-Adhesion Coating on X65 Pipeline Steel to Inhibit Hydrate Growth X65管道钢仿生抗附涂层抑制水合物生长
4	14:55-15:10	Yukun Guo 郭宇堃	Zhanjiang Branch of CNOOC (China) Co., LTD 中海石油(中国)有限公司 湛江分公司	Study on scaling regularity and flow barrier prevention of deep water gas reservoir 深水气藏井壁结垢规律与流动障碍防治研究

5	15:10-15:25	Jihao Pei 裴继昊	China University of Petroleum (East China) 中国石油大学（华东）	Optimization and Evaluation Experiment of Efficient Hydrate Anti-agglomerates Suitable for Gas-water System 适用于气水体系的高效水合物防团聚剂优化与评价实验
6	15:25-15:40	Yang Liu 刘杨	China University of Petroleum (East China) 中国石油大学（华东）	Influence of nozzle structure on natural gas liquefaction efficiency in a supersonic separator under the effect of shock wave 激波作用下超音速分离器喷嘴结构对天然气液化效率的影响
7	15:40-15:55	Jian Wang 王健	China University of Petroleum (East China) 中国石油大学（华东）	Research on pipeline hydrate deposition prediction based on neural networks 基于神经网络的管道水合物沉积预测研究
8	15:55-16:10	Changhong Yu 于常宏	China University of Petroleum (East China) 中国石油大学（华东）	Experimental investigation on the formation and agglomeration characteristics of methane hydrate in oil-water system in presence of anti-agglomerants 抗团聚剂存在下油水体系甲烷水合物形成及团聚特性的实验研究
9	16:10-16:25	Nan Ma 马楠	China University of Petroleum (East China) 中国石油大学（华东）	Numerical simulation of hydrate particle deposition in reduced-diameter pipes based on an improved model 基于改进模型的小直径管道水合物颗粒沉积数值模拟
10	16:25-16:40	Shaoqiang Li 李少强	China University of Petroleum (East China) 中国石油大学（华东）	Study on the regularity of hydrate deposition and blocking in the undulating section of deepwater gas pipeline 深水输气管道起伏段水合物沉积与堵塞规律研究

10 月 15 日, 14:00-16:00/October 15th, 14:00-16:00

分会场 5: 水合物新技术, 地点: 博爱阁 (第 3 会议室)

Session 5: Emerging Technologies based on Gas Hydrate, Location: Boai Hall (Conference Room 3)

Chairs: Yanhong Wang and Junjie Zheng

分会场主席: 王燕鸿、Junjie Zheng

No. 序号	Time 时间	Name 姓名	Institution 单位	Title 报告题目
1	14:00-14:20	Shengli Li 李胜利	Jilin University 吉林大学	Experimental study on secondary hydrate formation due to Joule-Thomson effects 焦耳-汤姆逊效应下二次水合物形成的实验研究
2	14:20-14:35	Zhi Li 李智	China University of Petroleum (Beijing) Karamay Campus 中国石油大学 (北 京) 克拉玛依校区	The mechanism of adsorption-hydration competition and synergism in natural gas storage using a wet ZIF-8 fixed bed 利用湿 ZIF-8 固定床进行天然气储存过程中的吸附-水合竞争及协同作用机理
3	14:35-14:50	Zheng Junjie	National University of Singapore 新加坡国立大学	Semi-clathrate hydrates for cold storage and cooling applications: Insights from kinetic and rheological studies 用于冷藏和冷却应用的水合物:来自动力学和流变学研究的见解
4	14:50-15:05	Zhang Yue	National University of Singapore 新加坡国立大学	Construction and optimization of CO ₂ separation cycle based on hydrate 基于水合物的CO ₂ 分离循环的构建与优化

5	15:05-15:20	Ye Zhang 章冶	National University of Singapore 新加坡国立大学	A holistic investigation into sII hydrate for hydrogen storage sII型水合物储氢的整体研究
6	15:20-15:35	Zhengxiang Xu	South China University of Technology 华南理工大学	Process Design of Hydrate-Membrane Coupled Separation for CO ₂ Capture from Flue Gas: Energy efficiency analysis and optimization 烟气中CO ₂ 捕集水合膜耦合分离工艺设计：能效分析与优化
7	15:35-15:50	Haofeng Lin	South China University of Technology 华南理工大学	Hydrate-based hydrogen storage and transportation process: Energy, exergy, economic analysis 基于水合物的氢储存和运输过程：能源，能源，经济分析
8	15:50-16:05	Xinying Li	South China University of Technology 华南理工大学	Hydrogen storage in double structure hydrates with SF ₆ and TBAB presence 用SF ₆ 和TBAB的双结构水合物储氢
9	16:05-16:20	Hao Peng 彭昊	Guangzhou Institute of Energy Conversion, CAS 中国科学院广州能 源研究所	Synthesis of CO ₂ hydrate at ambient temperature low pressure with ultra-rapid formation in seawater and high gas storage 常温、低压、超快速形成、高储气条件下CO ₂ 水合物的合成
10	16:20-16:35	Wenzhe Sun 孙文哲	Guangzhou Institute of Energy Conversion, CAS 中国科学院广州能 源研究所	Formation kinetics, storage stability and storage strategy of methane hydrate in the presence of cyclopentane 环戊烷存在下甲烷水合物的生成动力学、储存稳定性及储存策略

10 月 15 日, 16:40-17:40/October 15th, 16:40-17:40

分会场 6: 青年先锋对话, 地点: 锦元厅 (第 1 会议室)

Session 6: Dialogue with Youth Pioneers, Location: Jinyuan Hall (Conference Room 1)

Dialogue Guests: Prof. Praveen Linga and Prof. Fulong Ning

对话嘉宾: Praveen Linga 教授、宁伏龙教授

Session Chair : Zhenyuan Yin

分会场主席: 殷振元

(二)、Poster Sessions 墙报

October 15th, 2023

Poster No.	Name	Paper No.	Institution	Title of Paper
1	Peng Ji 季鹏	35	CNPC Offshore Engineering Co., LTD. Tianjin branch 中国石油集团海洋工程有限公司天津分公司	Study on sand control technology for shallow oozy silty hydrate reservoirs at sea areas 海域浅层淤泥质水合物储层防砂技术研究
2	Xiansi Wang 王贤斯	34	CNPC Offshore Engineering Co., LTD drilling branch 中国石油集团海洋工程有限公司钻井分公司	Study on stability of horizontal wellbore drilled in marine natural gas hydrate reservoir 海洋天然气水合物储层水平井钻井稳定性研究
3	Yangjie Ou 欧阳杰	18	Cnooc (China) Co., Ltd. Hainan branch 中海石油（中国）有限公司海南分公司	Study on the Law of Hydraulic Fracture Propagation in Low Permeability Thin Interbed Reservoir 低渗透薄互层储层水力裂缝扩展规律研究
4	Jingsheng Lu 卢静生	7	Guangzhou Institute of Energy Conversion, Chinese Academy of Sciences 中国科学院广州能源研究所	Study on mechanism of hydrate decomposition effects on sediments of South China Sea 南海沉积物水合物分解作用机理研究
5	Peng Liu 刘鹏	5	China University of Petroleum (East China) 中国石油大学（华东）	Research on Hydrate Formation Risk in the Wellbore of Deepwater Dual-source Co-production 深水双源联产井筒水合物形成风险研究
6	Ruiwen Feng 冯瑞文	40	China University of Petroleum (East China) 中国石油大学（华东）	Measurement and Prediction of Drop Size and Velocity in Gas-Liquid Churn Flow and Churn-Annular Flow 气液搅拌流和环空搅拌流中液滴尺寸和速度的测量与预测
7	Lei Zhang 张磊	37	China University of Petroleum (East China) 中国石油大学（华东）	Experimental Research on Membrane Separation of Multi-Component Gases in Drilling Fluid 钻井液中多组分气体的膜分离实验研究
8	Lu Liu 刘陆	38	China University of Petroleum (East China) 中国石油大学（华东）	Optimization of horizontal well placement for natural gas hydrate production considering seafloor subsidence 考虑海底沉降的天然气水合物开采水平井布置优化
9	Zhimin Wu	59	South China University of Technology 华南理工大学	Study on dissociation characteristics of SII hydrogen hydrate with ECP, CP, THF and 1,3-DIOX promoter SII型水合物与ECP、CP、THF和1,3 - diox促进

				进剂解离特性的研究
10	Deshui Niu 倪得水	58	China University of Petroleum (East China) 中国石油大学（华东）	Experimental study of fracture toughness in simulated cores of natural gas hydrate sediments 天然气水合物沉积物模拟岩心断裂韧性实验 研究
11	Zeqin Li 李泽钦	63	China University of Petroleum (East China) 中国石油大学（华东）	Simulation of plume evolution after shallow gas well blowout in deepwater open-circuit drilling 深水开式钻井浅层气井井喷后羽流演化模拟
12	Shangyu Zhang	65	South China University of Technology 华南理工大学	Experimental Study on the Effect of Water Molecular Clusters on Hydrate Formation 水分子团簇对水合物形成影响的实验研究
13	Pei Liu	66	South China University of Technology 华南理工大学	Study on the dissociation characteristics of methane hydrates in porous media above and below the freezing point 冰点以上及冰点以下多孔介质中甲烷水合物 解离特性研究
14	Yige Zhao 赵弋戈	71	China University of Petroleum (East China) 中国石油大学（华东）	Numerical simulation of two-phase fluid- structure interaction in fractured formation under drilling conditions 钻井条件下裂缝性地层两相流固耦合数值模 拟
15	Chenghua Guo 郭成华	73	China University of Petroleum (East China) 中国石油大学（华东）	High-Resolution Upwind Numerical Modeling of One-Dimensional Gas-Liquid Two-Phase Drift in Wellbore Transients 井筒瞬态一维气液两相漂移的高分辨率迎风 数值模拟
16	Xiuan Sui 隋秀安	81	China University of Petroleum (East China) 中国石油大学（华东）	Experimental study on simulation of formation water scaling under high temperature and high pressure conditions 高温高压条件下地层水结垢模拟实验研究
17	Xueqi Liu 刘雪琪	93	China University of Petroleum (East China) 中国石油大学（华东）	Experimental Study on the Displacement of Completion Fluid with High Viscosity and High Density by using the Packer Fluid with Low Viscosity and Low Density 采用高粘高密度封隔液驱替高粘高密度完井 液的实验研究低粘度，低密度
18	Ziang Chang 常子昂	84	China University of Petroleum (East China) 中国石油大学（华东）	Fusion of acoustic emission and deep-learning method for the sand monitoring of the high- production gas well 声发射与深度学习相融合的高产气井出砂监 测方法
19	Gang Chen 陈刚	95	China University of Petroleum (East China) 中国石油大学（华东）	Bottomhole pressure inversion method for open- circuit drilling based on drilling fluid return height 基于钻井液回流高度的开式钻井井底压力反 演方法

20	Baoxin Wei 韦宝鑫	96	China University of Petroleum (East China) 中国石油大学（华东）	Large Eddy Simulation of Flow Field in Hydrocyclone with Air Core 带空芯水力旋流器流场的大涡模拟
21	Junyu Deng 邓君宇	92	China University of Petroleum (East China) 中国石油大学（华东）	Numerical simulation study of gravel packing in horizontal wells based on CFD-DEM coupling method 基于CFD-DEM耦合方法的水平井砾石充填 数值模拟研究
22	Yuxiang Xia 夏煜翔	75	China University of Petroleum (East China) 中国石油大学（华东）	Experimental study on hydrate plugging in natural gas gathering and transportation pipelines 天然气集输管道水合物堵塞试验研究
23	Wang Ma 马旺	82	China University of Petroleum (East China) 中国石油大学（华东）	Development and experiment of a compound inhibitor 复合抑制剂的研制与实验
24	Youran Liang 梁悠然	108	China University of Petroleum (East China) 中国石油大学（华东）	Research on detection method of gas hydrate in oil gathering pipeline based on resistivity 基于电阻率法的集油管中天然气水合物检测 方法研究

(三)、Others 其他

For the convenience of academic communication , an online forum service is provided in the DWOOG-Hyd 2023. All the abstracts will be published on the Youthhydrate Forum (www.youthhydrate.com). Each abstract will be provided a theme post. Participants are encouraged to follow the post to ask questions and communicate at any time. The DWOOG-Hyd is dedicated to the realization of anytime, anywhere communication in the DWOOG and hydrate communities.

为增进交流，会议将投稿摘要发表至青年水合物论坛网站（www.youthhydrate.com）。

四、Conference Map (会议地图)

(一)、Traffic Diagram 交通示意图



(二)、Location 地点示意图

