

Advancing Carbon Capture, Utilization, and Storage (CCUS): East Asia Perspective

10–13 November 2024 | Qingdao, China

WORKSHOP OVERVIEW

CCUS technologies have witnessed rapid growth in recent years, offering promising solutions for reducing carbon emissions and achieving climate goals.

The East Asian region, in particular, presents unique challenges and opportunities in the development and deployment of CCUS solutions. This workshop recognizes the importance of tailored approaches that cater to the specific needs and contexts of East Asian countries, aiming to foster a collaborative environment that drives innovation and progress in CCUS.

WORKSHOP OBJECTIVES

This workshop aims to provide a unique platform to accelerate the development, implementation, and practice of CCUS technologies for the East Asian region. This workshop will facilitate knowledge sharing and collaboration among academia and industry experts across various disciplines like seismology, rock physics, geomechanics, reservoir engineering, and chemical engineering in the context of CCUS. By engaging experts in discussions with stakeholders and local regulators, the goal is to enhance understanding and adoption of CCUS technologies tailored to the region. Participants will stay updated on the latest technical developments, network with key stakeholders, and apply their expertise to address pressing issues related to CCUS in East Asia.

TECHNICAL TOPICS

1. Innovations and Technologies for CCUS

One aspect of this workshop concentrates on developing advanced methods and tools to optimize efficiency and effectiveness in CCUS and enhancing its processes tailored to the requirements in East Asia. It can include CO₂ storage and utilization geological modeling, time-lapse monitoring, site and reservoir characterization, etc.

2. Practical Application of CCUS

This workshop provides participants with experimental and field experiences along with practical insights for implementing CCUS strategies. Through interactive sessions and case studies, attendees will gain a better understanding of how to apply CCUS methodologies in a way that is feasible and impactful in East Asia. By emphasizing practical application, the workshop aims to provide stakeholders with the essential tools required to efficiently implement CCUS solutions.

3. Interdisciplinary Collaboration for CCUS

Encouraging interdisciplinary collaboration for CCUS in East Asia is critical for leveraging a broad spectrum of expertise to tackle the challenges associated with CCUS. By fostering collaboration among experts spanning various disciplines, stakeholders, and local regulators, this workshop aims to facilitate the exchange of knowledge and enhance cross-disciplinary partnerships. Through interdisciplinary collaboration, participants can combine their expertise to drive innovation and optimize CCUS strategies specifically tailored to meet the needs of the East Asian region.

Advancing Carbon Capture, Utilization, and Storage (CCUS): East Asia Perspective

10–13 November 2024 | Qingdao, China

TECHNICAL TOPICS

4. Safety hazards and risk assessment

A significant focus of the workshop will be on identifying and addressing safety hazards associated with CCUS projects. Detailed risk assessments and mitigation strategies will be discussed to ensure the safe implementation of CCUS initiatives in the region.

5. Regulatory Frameworks and Compliance

An extensive exploration of regulatory frameworks will be conducted to understand the legal landscape surrounding CCUS projects. Discussion on compliance requirements, permitting processes, and regulatory standards will be emphasized to ensure that CCUS initiatives adhere to legal guidelines and environmental regulations effectively.

EVENT LOCATION

China University of Petroleum (East China)

Address: No. 66 Changjiang West Road, Huangdao District, Qingdao City, Shandong Province, China

ACCOMMODATION

Howard Johnson Kangda Plaza Qingdao

Address: No. 159 Changjiang West Road, Huangdao District, Qingdao City, Shandong Province, China

Room Types: Twin Room / King Room, Rate: \$50/room/night (includes breakfast)

To make a reservation, please email: china@seg.org.

(Please note that workshop registration will take place in the hotel lobby on the first floor)

ORGANIZING COMMITTEE

Yi Shen, China University of Petroleum (East China)

Erkan Ay, Shell

Joel Le Calvez, SLB

Arthur Cheng, SEG

TECHNICAL COMMITTEE

Mohammed Ghallab, Saudi Aramco; **Praveen Linga**, National University of Singapore; **Sudipta Sarkar**, Chevron; **Glenn Wilson**, Halliburton; **Lianjie Huang**, Los Alamos National Laboratory; **Manman Hu**, The University of Hong Kong; **Yunyue (Elita) Li**, Purdue University; **Shuyang Liu**, China University of Petroleum (East China); **Ruihua Zhen**, China University of Petroleum (East China); **Wenyue Sun**, China University of Petroleum (East China); **Hongfeng Yang**, The Chinese University of Hong Kong; **Luanxiao Zhao**, Tongji University; **Liya Zhang**, Shell; **Zhenyu Zhu**, CNOOC
(Alphabetical Order by Surname)

FOR MORE INFORMATION, PLEASE REFER TO THE WEBSITE: https://seg.org/calendar_events/advancing-carbon-capture-utilization-and-storage-ccus-east-asia-perspective/

SEG MEETING NOTICE

Advancing Carbon Capture, Utilization, and Storage (CCUS): East Asia Perspective

10–13 November 2024 | Qingdao, China

TENTATIVE KEYNOTE/INVITED SPEAKERS

Jean-Philippe Avouac, California Institute of Technology Biondo
Biondi, Stanford University
Joel Le Calvez, SLB
Birol Dindoruk (Academician), University of Houston
Louis Durlofsky (Academician), Stanford University
Michael Fehler, MIT
Boris Gurevich, Curtin University
William Harbert, University of Pittsburgh
Don Lawton, CMCGHG
Douglas R Schmitt, Purdue University
Mrinal K. Sen, UT Austin
Ali Tura, Colorado School of Mines
Nimisha Vedanti, National Geophysical Research Institute (NGRI) Kris
Walker, Chevron
Glenn Wilson, Halliburton
Chris Willacy, Shell
Jianwen Chen, Qingdao Institute of Marine Geology
Xuan Feng, Jilin University
Xin Fu, UPC
Chen Gu, Tsinghua University
Manman Hu, HKU
Lianjie Huang, Los Alamos National Laboratory
Zhiyun Jin (Academician) team, Peking University
Elita (Yunyue) Li, Purdue University
Shuyang Liu, UPC
Lijun Mi, CNOOC
Zhipeng Qin, Guangxi University
Yi Shen, UPC
Wenyue Sun, UPC
Jianchun Xu, UPC
Tao Yang (Academician), Westlake University, Yungu Professor
Hongfeng Yang, CUHK
Wei Zhang, UPC
Luanxiao Zhao, Tongji University
Yikang Zheng, China Academy of Sciences
Yingcai Zheng, University of Houston
(Alphabetical Order by Surname; The list will be continuously updated)

MEETNG SCHEDULE

10 November 2024

Onsite Registration

11 November 2024

Opening Ceremony and Technical Session

12 November 2024

Technical Session

13 November 2024 (Half-Day) Technical Session and Closing Ceremony

MEETNG FORMAT

Technical oral presentation

Panel discussion

Student poster

REGISTRATION

Registration Channel

International Participants (USD Payment):

Please register at https://seg.org/calendar_events/advancing-carbon-capture-utilization-and-storage-ccus-east-asia-perspective/

Registration Rate	SEG Member (U.S.)	SEG Member (W.)	SEG Non-Member (U.S.)	SEG Non-Member (W.)
Early Bird Registration Fee (Must be registered and paid before 25 October)	\$850	¥4750	\$750	¥5500
Full Registration Fee (Begin 26 October)	\$750	¥5500	\$650	¥4250
Early Career Registration Fee (Applicable to participants aged 35 and below)	\$550	¥3950	\$450	¥4750
Online Speaker Registration Fee	\$350	¥2550	\$350	¥2550
Committee and Speaker Registration Fee	\$550	¥3950	\$450	¥4750
Student Registration Fee	\$200	¥1500	\$200	¥1500

Registration includes:

- Three lunches (November 11-13)
- Two dinners (November 11-12)

Note:

Hotel accommodation is not included in the registration fee and will be at participants' own expense.

ORGANIZER (S)



SEG.ORG/EVENTS

会议通知

2024 SEG东亚视角下的碳捕获、利用与封存 推进研讨会

2024年11月10-13日 | 中国 · 青岛

会议背景

CCUS技术近年来发展迅速，为减少全球碳排放和实现气候目标提供了有效的解决方案。特别是东亚地区，在CCUS解决方案的开发和部署方面面临着独特的挑战和机遇。本次研讨会认识到因地制宜的重要性，在满足东亚国家的具体需求和背景下，营造一个推动CCUS创新和进步的合作环境。

会议目标

本次研讨会旨在为加快CCUS技术在东亚地区的发展、实施和实践提供一个独特的平台。研讨会将在CCUS的背景下促进学术界和行业专家之间的知识共享和合作，涉及到地震学、岩石物理学、地质力学、油藏工程和化学工程等各个领域。通过与利益相关者和当地监管机构的专家进行讨论，加强对适合该地区的CCUS技术的理解 and 应用。与会者将了解最新的技术发展，与关键利益相关者建立联系，并应用他/她们的专业知识来解决与东亚CCUS相关的紧迫问题。

研讨主题

1. CCUS的创新和技术

本次研讨会的一个方面集中于开发先进的方法和工具，以优化CCUS的效率和有效性，并根据东亚的要求加强其流程。它可以包括二氧化碳存储和利用地质建模、延时监测、现场和储层表征等。

2. CCUS的实际应用

本次研讨会为参与者提供了实验和实地经验以及在东亚实施CCUS战略的实际见解。通过互动环节和案例研究，与会者将更好地了解如何以可行和有效的方式在东亚应用CCUS方法。通过强调实际应用，研讨会旨在为利益相关者提供有效实施CCUS解决方案所需的基本工具。

3. CCUS的跨学科合作

在东亚促进跨学科合作对于利用广泛的专业知识来解决与CCUS相关的挑战至关重要。通过促进涵盖各个学科、利益相关者和当地监管机构的专家之间的合作，研讨会旨在促进知识交流和加强跨学科的伙伴关系。通过跨学科合作，参与者可以结合自己的专业知识来推动创新和优化CCUS战略，以满足东亚地区的需求。

4. 安全隐患及风险评估

研讨会的重点之一将是识别和解决与CCUS项目相关的安全危害。将讨论详细的风险评估和减轻风险战略，以确保在该地区安全实施CCUS倡议。

5. 监管框架和合规性

研讨会将对监管框架进行广泛的探索，以了解围绕CCUS项目的法律环境。将着重讨论合规管理体系要求、许可流程和监管标准，以确保CCUS倡议有效遵守法律准则和环境法规。

会议通知

2024 SEG 东亚视角下的碳捕获、利用与封存 推进研讨会

2024年11月10-13日 | 中国 · 青岛

会议地点

中国石油大学（华东） 地址: 山东省青岛市黄岛区长江西路66号

推荐住宿酒店

青岛康大豪生大酒店

酒店位置: 青岛市黄岛区长江西路159号（请注意，研讨会注册将在一楼的酒店大堂进行）

房型: 双床房/大床房, 价格: 350元/间/晚（含早餐）

预订电话: 陆经理 15318729331（报SEG会议订房）

组织委员会

沈 奕, 中国石油大学（华东）

Erkan Ay, 壳牌

Joel Le Calvez, 斯伦贝谢

Arthur Cheng, SEG国际勘探地球物理学家学会

技术委员会

Mohammed Ghallab, 沙特阿美

Praveen Linga, 新加坡国立大学

Sudipta Sarkar, 雪佛龙

Glenn Wilson, 哈里伯顿

胡曼曼, 香港大学

黄联捷, 洛斯阿拉莫斯国家实验室

李云月 (Elita), 美国普渡大学

刘树阳, 中国石油大学（华东）

芮振华, 中国石油大学（北京）

孙文跃, 中国石油大学（华东）

张丽雅, Shell

赵峦啸, 同济大学

杨宏峰, 香港中文大学

朱振宇, 中海油研究总院

（按姓氏首字母排序）

https://seg.org/calendar_events/advancing-carbon-capture-utilization-and-storage-ccus-east-asia-perspective/



会议通知

2024 SEG 东亚视角下的碳捕获、利用与封存 推进研讨会

2024年11月10-13日 | 中国 · 青岛

主旨/特邀报告嘉宾 (按姓氏首字母排序)

Jean-Philippe Avouac, 加州理工学院
Biondo Biondi, 斯坦福大学
Joel Le Calvez, 斯伦贝谢 (SLB)
Birol Dindoruk (院士), 休斯顿大学
Louis Durlofsky (院士), 斯坦福大学
Michael Fehler, 麻省理工学院
Boris Gurevich, 科廷大学
William Harbert, 匹兹堡大学
Don Lawton, 加拿大碳捕获和地质封存中心 (CMCGHG)
Douglas R Schmitt, 普渡大学
Mrinal K. Sen, 德克萨斯大学奥斯汀分校
Jelena Schmitz, 埃克森美孚
Ali Tura, 科罗拉多矿业学院
Nimisha Vedanti, 国家地球物理研究所 (NGRI)
Kris Walker, 雪佛龙
Glenn Wilson, 哈里伯顿
Chris Willacy, 壳牌
陈建文, 青岛海洋地质研究所研究员
冯 晖, 吉林大学
付 欣, 中国石油大学 (华东)
顾 辰, 清华大学
胡曼曼, 香港大学
黄联捷, 洛斯阿拉莫斯国家实验室
金之钧 (院士) 团队, 北京大学
李云月 (Elita), 普渡大学
刘树阳, 中国石油大学 (华东)
米立军, 中海油研究总院
秦智鹏, 广西大学
沈 奕, 中国石油大学 (华东)
孙文跃, 中国石油大学 (华东)
徐建春, 中国石油大学 (华东)
杨涛 (院士), 西湖大学云谷教授
杨宏峰, 香港中文大学
张 伟, 中国石油大学 (华东)
赵峦嘯, 同济大学
郑忆康, 中科院地质与地球物理研究所
郑应才, 休斯顿大学

会议日程

2024年11月10日

现场注册 (青岛康大豪生大酒店一层大堂)

2024年11月11日

开幕式和技术交流

2024年11月12日

技术交流

2024年11月13日 (半天)

技术交流和闭幕式

会议形式

- 口头报告
- 小组讨论
- 学生张贴报告

注册参会

国内参会者注册通道 (人民币支付):
请复制以下链接至浏览器, 进行注册

<https://www.seg-china.org.cn/events/calendar-76.html>

注册类别	SEG 会员 (RMB)	SEG 会员 (USD)	非SEG 会员 (RMB)	非SEG 会员 (USD)
早鸟注册价格 (2024年11月25日前完成注册)	\$650	¥4750	\$750	¥5500
常规注册价格 (2024年11月26日开席)	\$750	¥5500	\$850	¥6250
早期职业生涯青年代表注册价格 (适用于25岁及以下的参会代表)	\$350	¥2550	\$450	¥3250
线上报告代表注册价格	\$350	¥2550	\$350	¥2550
本次会议技术展览、特邀报告代表注册价格	\$550	¥3950	\$650	¥4750
学生注册价格	\$200	¥1500	\$200	¥1500

注册价格包含:

- 会议期间3次午餐 (11月11日-13日)
- 会议期间2次晚餐 (11月11日-12日)
- 酒店费用由参会代表自理。

主办方



SEG.ORG/EVENTS