



# CALL FOR ABSTRACTS

## 2025 SEG Near-Surface Geophysical Exploration and Geo-Disaster Prevention Technology Workshop

4–6 July 2025 | Chengdu, China

### WORKSHOP OVERVIEW

Near-surface geophysical exploration is vital for unveiling geological structures and properties from the Earth's surface down to depths of several hundred meters. In recent years, significant advancements in near surface geophysics have been made in areas such as environmental pollution monitoring, geo-disaster monitoring, and disaster early warning systems. Sustained technological innovation has led to the widespread adoption of methods including high-resolution shallow seismic imaging, high-frequency surface wave exploration, microtremor seismic detection techniques, deep-penetration ground-penetrating radar, high-power electromagnetic methods, satellite/UAV based remote sensing imaging, autonomous 4D geoelectrical imaging, airborne/semi-airborne electromagnetic surveys, etc.

To thoroughly discuss the latest technologies and methodologies in near-surface geophysical exploration and their applications in geological hazard monitoring and prevention. Chengdu University of Technology, in collaboration with renowned universities and research institutions both domestically and internationally, are organizing the "2025 SEG Near-Surface Geophysical Exploration and Geo-Disaster Prevention Technology Workshop". We cordially invite experts and scholars from the international geophysical community and domestic colleagues to share the latest research achievements in near-surface geophysical exploration and geo-disaster prevention technologies, discuss future trends in technological developments, and explore how to further advance the field of complex geological hazard monitoring and prevention.

### TECHNICAL TOPICS

1. New Technologies and Methods in Shallow Seismic Exploration
2. Airborne/Semi-Airborne Electromagnetic Techniques and Applications
3. Recent Advances in Near-Surface Geophysics for Monitoring Geological Hazards (e.g., Earthquakes, Landslides)
4. Satellite/UAV based remote sensing monitoring for geological hazards
5. Advanced technologies and methods for early warning, risk assessment and mitigation of cascading hazards



## 2025 SEG Near-Surface Geophysical Exploration and Geo-Disaster Prevention Technology Workshop

4–6 July 2025 | Chengdu, China

### TECHNICAL TOPICS

6. Technological innovation for active tectonics, Geomorphology and Geoenvironmental engineering
7. Applications for machine learning/AI to interpret complex datasets
8. Short to intermediate to long-term monitoring of hazards using permanent electrical resistivity installations

### ABSTRACT FORMAT

Refer to the [SEG Abstract Template](#), max 2-page abstract .

- Abstracts should include sufficient details for the committee to judge the quality of the work submitted.
- Abstracts can be a minimum of 1 page, text plus 1 figure, with a maximum of 2 pages.
- Abstracts should be on 8.5 x 11 inch paper size, text in Roman font, stay 1 inch clear of the page margins and submitted in PDF format.
- Title should be one or two lines, at the top of the page, in bold font, and size 12 point.
- Authors should be listed in Roman italic font, size 10 point, and located just below the title.

If authors plan to publish abstracts in SEG Library after the workshop, the submissions must follow the SEG Abstract Template and the copyright transfer letter should be confirmed after the workshop.

### GENERAL CHAIRMAN:

**Qiang Xu**, Chengdu University of Technology

### TECHNICAL CO-CHAIRS:

**Keren Dai**, Chengdu University of Technology

**Lee Slater**, Rutgers University Newark

**Xuben Wang**, Geophysical Society of Sichuan Province

**Yixian Xu**, Zhejiang University

**Gang Yu**, BGP Inc., CNPC

### TECHNICAL COMMITTEE MEMBERS:

**Recep Cakir**, Washington State Department of Natural Resources, and Department of International Water Resources, Izmir Institute of Technology (IZTECH), Urla, Izmir, Turkiye; **Hui Chen**, East China University of Technology; **Feng Cheng**, Zhejiang University; **Risheng Chu**, Innovation Academy for Precision Measurement Science and Technology, CAS; **Hesham El-Kaliouby**, National Research Centre, Egypt; **Gang Fang**, Shandong University; **Xuan Feng**, Jilin University; **Zhenwei Guo**, Central South University; **Yi He**, Lanzhou Jiaotong University; **Jun Hu**, Central South University; **Majid Khan**, University of Science and Technology Beijing; **Yunyue Elita Li**, Purdue University; **Xuejun Liu**, BGP Inc., CNPC; **Zhong Lu**, China University of Mining and Technology; **Xushan Lu**, Shandong University; **Enhedelilai Alex Nilot**, Jilin University; **Huaifeng Sun**, Shandong University; **Teng Wang**, Peking University; **Xiaowen Wang**, Southwest Jiaotong University; **Junjun Wu**, Optical Science and Technology (Chengdu) Ltd.; **Yunlong Wu**, China University of Geosciences (Wuhan); **Wenbin Xu**, Central South University; **Kunlong Yin**, China University of Geosciences (Wuhan); **Chi Zhang**, University of Vienna; **Guohong Zhang**, China Earthquake Administration; **Feng Zhou**, China University of Geosciences (Wuhan)

.....More Technical Committee Members to be added. The above list is in alphabet order of last name.

FOR MORE INFORMATION, PLEASE REFER TO THE WEBSITE:

[https://seg.org/calendar\\_events/seg-near-surface-geophysical-exploration-and-geo-disaster-prevention](https://seg.org/calendar_events/seg-near-surface-geophysical-exploration-and-geo-disaster-prevention)

## IMPORTANT DATE

Call for Abstract Opens: 1 January 2025

Call for Abstract Deadline [Extends to: 30 March 2025](#)

Early Bird Registration Opens: 3 April 2025

Full Registration Opens: 3 June 2025

---

## PRINT IN BLACK INK OR TYPE

Dr. Mr. Ms.

SEG ID# (if currently a member) \_\_\_\_\_

Full Name \_\_\_\_\_ Job Title: \_\_\_\_\_

Company/Organization \_\_\_\_\_

Mailing Address \_\_\_\_\_

City & State \_\_\_\_\_

ZIP/Postal Code \_\_\_\_\_

Country \_\_\_\_\_

Address listed: Business Home

Business Phone \_\_\_\_\_ Email: \_\_\_\_\_

Are you a student? Yes No

Subject \_\_\_\_\_ Presentation Type: Oral Poster Both

NOTE: The mechanical recording of any portion of the SEG workshop in any form (photographic, electronic, etc.) is strictly prohibited. Printed reference to the workshop presentations or discussions is not permitted without the consent of the parties involved. All participants are requested to omit public reference to the workshop proceedings in any published work or oral presentation. Only registrants are permitted to attend workshop sessions. Each participant agrees to these regulations when application is accepted, as indicated by his or her signature on this form.

Signature: \_\_\_\_\_ Date: \_\_\_\_\_

Please email abstract and call for abstracts form by **30 March 2025** to [china@seg.org](mailto:china@seg.org)

Or, submit abstract online via SEG China website <https://seg-china.org.cn/events/calendar-88.html>.

## ORGANIZERS



## SUPPORTERS

**State Key Laboratory of Geohazard Prevention and Geoenvironment Protection**  
**Key Laboratory of Earth Exploration and Information Technology, Ministry of Education**  
**College of Geophysics, Chengdu University of Technology**





## 2025 SEG近地表地球物理勘探与地质灾害防治技术研讨会

2025年7月4-6日 | 中国·成都

### 主办单位



### 支持单位

地质灾害防治与地质环境  
保护国家重点实验室

地球勘探与信息技术教育部  
重点实验室

成都理工大学地球物理学院

### 会议背景

近地表地球物理勘探对于揭示从地球表面至数百米深度范围内的地质结构和地质特征至关重要。近年来，近地表地球物理学在环境污染监测、地质灾害监测以及灾害预警系统等领域取得重大进展。持续的技术创新使得诸多方法得到广泛应用，包括高分辨率浅层地震成像、高频面波勘探、微动地震探测技术、深穿透探地雷达、大功率电磁法、基于卫星/无人机的遥感成像、四维自主地电成像、航空/半航空电磁测量等。

为全面探讨近地表地球物理勘探领域的最新技术与方法及其在地质灾害监测和防治方面的应用，成都理工大学联合国内外知名高校及科研机构，携手举办“2025 SEG近地表地球物理勘探与地质灾害防治技术研讨会”。我们诚挚邀请国际地球物理学界的专家学者以及国内同仁分享近地表地球物理勘探及地质灾害防治技术方面的最新研究成果，探讨技术发展的未来趋势，并探索如何进一步推动复杂地质灾害监测与防治领域的发展。

### 研讨专题

1. 浅层地震勘探新技术与新方法
2. 航空/半航空电磁技术及应用
3. 用于地质灾害监测（如地震、滑坡）的近地表地球物理学最新进展
4. 基于卫星/无人机的地质灾害遥感监测
5. 用于预警、风险评估和缓解级联影响的先进技术和方法
6. 活动构造、地貌学及地质环境工程方面的技术创新
7. 机器学习/人工智能在解读复杂数据集方面的应用
8. 利用永久性电阻率装置对灾害进行短期、中期及长期监测





## 2025 SEG近地表地球物理勘探与地质灾害防治技术研讨会

2025年7月4-6日 | 中国 · 成都

### 大会主席

许强，成都理工大学

### 技术主席

戴可人，成都理工大学

徐义贤，浙江大学

Lee Slater, Rutgers University Newark

余刚，中国石油集团东方地球物理勘探有限责任公司

王绪本，四川省地球物理学会

### 技术委员会

Recep Cakir, Washington State Department of Natural Resources

Department of International Water Resources, Izmir Institute of Technology (IZTECH), Urla, Izmir, Turkiye

陈辉，东华理工大学

路中，中国矿业大学

程逢，浙江大学

卢绪山，山东大学

储日升，中国科学院精密测量科学与技术创新研究院

Alex Nilot 恩和得力海，吉林大学

Hesham El-Kaliouby, National Research Centre, Egypt

孙怀凤，山东大学

方刚，山东大学

王腾，北京大学

冯暄，吉林大学

王晓文，西南交通大学

郭振威，中南大学

吴俊军，中油奥博(成都)科技有限公司

何毅，兰州交通大学

吴云龙，中国地质大学（武汉）

胡俊，中南大学

许文斌，中南大学

Majid Khan, 北京科技大学

殷坤龙，中国地质大学（武汉）

李云月(Elita), Purdue University

张弛，University of Vienna

刘雪军，中国石油集团东方地球物理勘探有限责任公司

张国宏，中国地震局

周峰，中国地质大学（武汉）

(.....更多技术委员增加中 | 以上为姓氏首字母顺序)

### 会议地点

成都理工大学

地址：四川省成都市成华区二仙桥东三路1号

[https://seg.org/calendar\\_events/seg-near-surface-geophysical-exploration-and-geo-disaster-prevention](https://seg.org/calendar_events/seg-near-surface-geophysical-exploration-and-geo-disaster-prevention)



稿件格式: SEG稿件模板 [SEG Abstract Template](#)

- 摘要应包含足够详细的内容, 以便技术/审稿委员会能够评判所提交研究成果的论文质量。
  - 摘要文章篇幅为1-2页, 最少为1页(包含文字及1幅图表), 最多为2页。
  - 摘要应采用 8.5×11 英寸的纸张尺寸, 罗马字体, 距离页面边缘至少 1 英寸, 并且以 PDF 格式提交。
  - 标题应为1-2行, 置于页面顶部, 采用粗体字, 字号为 12 磅。
  - 作者姓名应使用罗马斜体字, 字号为 10 磅, 列于标题正下方。
- 作者若计划会议结束后在SEG Library发表所提交文章, 须遵循SEG摘要模板格式且在会后确认版权转让函。

## 填写投稿联系信息

博士 先生 女士

SEG会员 ID# (如您是SEG会员) \_\_\_\_\_

联系姓名: \_\_\_\_\_ 身份/职务: \_\_\_\_\_

所在公司/机构/院校: \_\_\_\_\_

联系地址: \_\_\_\_\_

城市/省份: \_\_\_\_\_

邮政编码: \_\_\_\_\_

国家: \_\_\_\_\_

上述地址是:      办公      家庭

联系电话: \_\_\_\_\_ 电邮: \_\_\_\_\_

您是否为学生      是      否

投稿专题 \_\_\_\_\_ 期望报告类型:      口头      张贴      都可

说明: 严禁以任何形式(摄影、电子等)对SEG国际勘探地球物理学家学会所主办研讨会的任何部分进行录制。未经相关方同意, 不得印刷引用研讨会上所展示的内容或讨论情况。所有参会者在任何已发表的作品或口头报告中避免公开提及研讨会的相关记录。只有注册人员方可参加研讨会的各场会议。每位参会者在接受稿件录用时, 即表示同意这些规定, 如其在本投稿表上签字所示。

Signature: \_\_\_\_\_ Date: \_\_\_\_\_

### 投稿方式:

- (一) 2025年3月30日前, 将“文章与填好的投稿文件”一起发邮件至 [china@seg.org](mailto:china@seg.org)
- (二) 2025年3月30日前, 登录SEG中国网站在线投稿, 会议网址: <https://seg-china.org.cn/events/calendar-88.html>

### 重要日期参考:

- 征稿开启: 2025年1月1日
- 征稿截止时间 [延长至: 2025年3月30日](#)
- 提前注册开始: 2025年4月3日
- 常规注册开始: 2025年6月3日

