



CALL FOR ABSTRACTS

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

3–5 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



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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.

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FOR MORE INFORMATION, PLEASE REFER TO THE WEBSITE:

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: 1 March 2025

Early Bird Registration Opens: 3 April 2025

Full Registration Opens: 3 June 2025

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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 **1 March 2025** to 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





征稿通知

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3-5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





征稿通知

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3-5日 | 中国·成都

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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



SEG.ORG/EVENTS

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。

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- (二) 2025年3月1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

征稿截至: 2025年3月1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

