

Abstract Submission Deadline: 5 July 2021 at 5 p.m. U.S. Central Daylight Time

OFFICIAL ABSTRACT KIT

Sixth International Conference on Engineering Geophysics (ICEG2021)

Al Ain, United Arab Emirates

25-28 October 2021

Please note:

- **The Technical Program Committee is planning for the possibility of both in-person and online presentations in UAEU.**
- The Technical Program Committee seeks submission of new ideas and applications. Submitting material that previously has been presented or material submitted to but not yet accepted by another meeting may result in rejection. Please review sections on ethical guidelines and novelty on page three for further information.
- To further enhance the Technical Program, SEG wishes to live stream and/or record and rebroadcast sessions. In order to do so, we must have a recording release for both your presentation file and for recording and broadcast of your presentation. Please select the rights you extend to SEG from among the options available.
- Official notification letters will be sent only via e-mail and will be sent only to the individual listed as the speaker of the abstract. **Please add aklerk@seg.org to the speaker address book to ensure your letter is received.**

Additional Notes for Submission:

- The only file type that ICEG will accept is WORD (.docx). Further instruction regarding this requirement can be found in the "Instructions to Submit Online" section of this document.
- A reference list should be included at the end of the abstract and should be prepared in the next page (i.e. page 5 if applicable).

This Abstract Kit contains the following items:

1. Criteria for Abstract Acceptance
2. Evaluation Questions
3. Presentation Styles
4. Instructions for Typing Abstracts
5. Instructions to Submit Online
6. Primary Emphasis Category List
7. Copyright Transfer and License Agreements

*A sample abstract is available online for your reference.

Abstract Submissions

To submit your abstracts for the Sixth International Conference on Engineering Geophysics, please email to aklerk@seg.org. The online program will open for submissions on **17 March 2021**. We recommend that you **do not wait until the last week** to submit an abstract. Using the SEG online submission program, authors will be able to open their browser windows, fill out the forms, and submit their abstracts for review. **There is a 10 MB file size limit per uploaded abstract.** Abstract submissions must be complete before 5 p.m. U.S. Central Daylight Time on 5 July 2021.

Questions? Contact the Event Manager in the SEG Business Office by e-mail aklerk@seg.org.

Criteria for Abstract Acceptance

Abstracts submitted that are not properly formatted following the specifications laid out in the Official Abstract Kit will be rejected. The acceptance of your abstract by the 2021 ICEG Technical Program Committee is based on the quality of your submitted abstract and whether the abstract fits with the subject coverage of the Technical Program, as well as space available in the Technical Program Schedule. All abstracts must be complete and contain full references. Each abstract will have up to three reviewers. The Technical Program Committee will be responsible for selecting and organizing the abstracts into cohesive sessions that fit within the Technical Program Schedule.

Copyright

SEG secures copyright to abstracts accepted for presentation at the International Conference on Engineering Geophysics. Copyright transfer is delivered during the submission process but does not take effect until manuscript acceptance. The copyright transfer includes a warrant by authors that they have secured permissions to use all included material owned by third parties. If you have not secured permission to use all material in your abstract at the time of submission, please do not submit. Papers cannot be withdrawn after online publication, which typically occurs in late July or early August. It is recognized that works are not eligible for copyright transfer if **all authors** are U.S. government employees reporting on work performed in the course of their employment. Government employees agree to all terms other than copyright transfer when clicking through the rights-transfer forms. **Acceptance of your abstract does not guarantee publication.** Generally, papers are published online before the Conference.

During the submission process, authors are invited to extend to SEG a license to their presentation files—primarily slide sets and videos—so that SEG may publish them online alongside their abstracts after the meeting has occurred. Authors also are encouraged to extend to SEG permission to live stream and/or record presentations and publish the recordings with presentation materials on removable media and/or online. Authors must select from among these broadcast options: (1) permission for one-time live stream, (2) live stream and one month of access to the recording, or (3) live stream and perpetual access to the recording.

Transfer of copyright in expanded abstracts does not prevent the author(s) from presenting their material elsewhere after their presentation at the ICEG2021, but full citation and proper acknowledgment of SEG's copyright is required.

Open Access

SEG's open-access policy allows an author to pay a \$1,000 author-publication charge to make his or her expanded abstract available without access controls in the SEG Library. To opt for open-access publication, please click through the copyright-transfer agreement and e-mail to aklerk@seg.org stating your desire to pay for open access. Instead of paying the normal \$3,500 open-access fee for journal papers, authors who paid \$1,000 to publish their expanded abstract as open access may pay an additional \$2,500 to have the expansion of that work published with an open license if accepted for publication in an SEG journal. Learn more about SEG's open-access policy at <https://www.seg.org/openaccess>.

Recording Policy

SEG may live stream and/or record your audio and presentation slides at the ICEG2021 for delivery via the Internet and/or SEG virtual portal and On Demand Playback. Only presentations for which the author has granted permission will be broadcast and/or recorded.

Technical Content

A good abstract presents technically correct ideas with a fresh and enlightening perspective. The discussion is pertinent and well-focused on the topic and is the appropriate length. Definitive conclusions are made and supported by data with appropriate figures and cogent, convincing arguments. If the abstract is part of an ongoing study, the work should represent a significant milestone with specific conclusions supported by data presented in figures.

Coherency, Style, and Grammar

Abstracts must be written in English. A well-written abstract is readily understandable, even if it has been translated. Submitted work should be prepared according to the Instructions to Authors (<https://seg.org/Publications/Journals/-Geophysics/Information-for-Authors/Instructions-to-authors>), SEG will publish the abstract exactly as it is received. Please proofread your abstract carefully because neither the Technical Program Committee nor the SEG Business Office staff will make any typographical or grammatical

changes. Grammatical and typographical errors reflect on the entire Society and may be cause for rejection. **You will not be given the opportunity to resubmit a new version of your abstract after it has been submitted. NO EXCEPTIONS!**

Format

Authors shall have followed the guidelines (see Instructions for Typing Abstracts) and submitted abstracts **in Word file** with the appropriate forms. The abstract must be of sufficient length to cover the topic and allow reviewers to judge its quality but **must not exceed four pages (including graphics) or 10MB file size**. An expanded abstract should have no more than 2,000 words and be accompanied by no more than six figures. A reference list should be included at the end of the expanded abstract and should be prepared in the next page (i.e. page 5 if applicable).

Commercialism

Commercial reference may occur only once and then only to identify that certain products or services were used to incorporate the method being presented. The abstract shall contain no other reference to proprietary products, company names, or trademarks. Repeated references to products are cause for rejection.

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Novelty

As a part of your abstract submission, you will be asked whether your paper has been submitted to or presented previously at another conference or whether the paper has been submitted or presented previously with only small changes. While previous presentation is not necessarily a cause for rejection, the Technical Program Committee seeks submission of new ideas and applications. Permissions must be secured and attribution provided for any material previously presented or published.

First Claim to Publication

Authors agree to give SEG first claim to publication of an expansion of the Work into a journal article or book chapter if the authors produce one. Please consider whether an expansion of your work, with fresh expression and expansion of the ideas and descriptions rather than duplication of the expanded-abstract text, would be suitable for publication in GEOPHYSICS, The Leading Edge, or Interpretation. If a need exists to publish elsewhere, authors may e-mail publications@seg.org to ask for that permission.

Potential Automatic Rejection

- Expanded Abstract not properly formatted following the specifications laid in this Official Abstract Kit will be rejected, see "Typographical Instructions".
- Expanded Abstracts receiving a similarity score of 30% or higher overall or more than 5% to any single source will be subject to further evaluation to determine if identified sections have been properly quoted, summarized, or paraphrased with proper attribution and may be rejected if proper attribution is absent. See "Ethical Guidelines for SEG Publications" within this kit for more information.

SEG Abstract and Oral/Poster Evaluation Questions

The information below is found in the online form reviewers will fill out for each abstract. Up to three reviews will be performed on each abstract. The selections below each category are the options reviewers are given along with the corresponding score.

Category and Score (5-best, 1-worst)	Abstract Acceptance Stage
<p>Technical Veracity</p> <ul style="list-style-type: none"> ➤ 5 – Well supported scientific content with clear objectives and sound research method, using innovative process and providing multiple types of data to prove the objective ➤ 4 - Proven scientific method applied to new or existing data to push boundaries of previous work ➤ 3 - Good technical work on limited data, not enough concrete support ➤ 2 - Lacking or poor technical content, not appropriate assumptions or methods for the objectives ➤ 1 - Vague, black box, or debatable methods or interpretations, contradicting known facts with no evidence 	✓
<p>Significance</p> <ul style="list-style-type: none"> ➤ 5 - Game changing differentiator relevant to multiple branches of geoscience, addresses an original problem or finds a new approach for existing issue of importance ➤ 4 - New concept for a specialist audience only ➤ 3 - Incremental contribution to a known concept ➤ 2 - Good examples of an application of a known concept, but low impact ➤ 1 - Not a significant example of a concept or lacks potential for adoptability 	✓
<p>Structure</p> <ul style="list-style-type: none"> ➤ 5 - Paper is extremely well written and presented logically, with good flow and completeness, with essential amount of detail ➤ 4 - Communicates the message well, easy to follow, appropriate length ➤ 3 - Understandable with due effort, longer than necessary ➤ 2 - Difficult to understand or to follow ➤ 1 - Incomprehensible 	✓
<p>Illustrations and grammar</p> <ul style="list-style-type: none"> ➤ 5 - Outstanding draftsmanship of original illustrations/plots, grammatically correct, well formatted ➤ 4 - Clear and insightful images but widely used by other authors or adopted from previous publications ➤ 3 - Average quality, some misspelling or poor formatting ➤ 2 - Low resolution images/ hard to understand/ busy with irrelevant data ➤ 1 - Lacks needed figures or irrelevant, excessive use of cartoons or smart art 	✓
<p>Conclusions</p> <ul style="list-style-type: none"> ➤ 5 - Definite conclusions to a key message supported by data ➤ 4 - Tentative conclusions to an ongoing work supported by data ➤ 3 - Multiple conclusions that don't clearly support a main message ➤ 2 - Conclusions not supported by data ➤ 1 - Inconclusive, with no explanation of the outcome 	✓
<p>Commercialism</p> <ul style="list-style-type: none"> ➤ 5 - None or Appropriate (company name on title slide only with little references to a specific new product) ➤ 4 - Periodic references to a specific product or comparison of products in support of a message ➤ 3 - Borderline commercial with too many references to utilization of services by others, not necessary for a technical message under discussion ➤ 2 - Excessive use of brand names, product names, logos, failure to substantiate performance claims ➤ 1 - Extremely commercial with a sole goal of promoting a specific company or a product 	✓

Presentation Styles

You are required to select your preferred presentation style during submission. Please review the styles available and select the one you feel will best represent your abstract.

Poster Presentation

Poster presentations are best suited for abstracts that contain detailed mathematics, large-scale plots, or frequent correlation of several displays. They are also most appropriate for abstracts that are targeted to a focused audience or present difficult concepts that may require more than 20 minutes to develop. Poster presentations offer a unique opportunity for one-on-one communication and interaction between the presenter and the audience.

Authors of papers accepted as poster presentations will be asked to prepare their materials to display during the course of the meeting. If you are unable to present, contact the Event Manager. Each poster presenter may be given **one** (1) single board that is 100cm x 120cm. You will have to make use of the entire board area and must include the abstract title and author(s) in your presentation. Title cards will not be on the frame. Each presenter is assigned one presentation and discussion time for judging along with a time window to be at the poster for interaction with attendees. Upon acceptance, this information will be sent to you via e-mail in your official notification letter. Poster presenters are expected to be present at their poster stations during assigned presentation times.

Oral Presentations

Oral presentations are best suited for abstracts in which a specific and significant milestone is conveyed and in which the work and results can be demonstrated with clear data examples within the time allotted for talk. Oral presentations allow knowledge transfer to large audiences. Oral presentations will be 15 minutes for presentation and 5 minutes for discussion.

Each of the oral-session rooms will be equipped with an LCD projector and computer equipment, one screen (NOTE: single-screen presentations only), a pointer, and microphones. Information regarding what is compatible with the equipment in the session rooms will be available in the Speaker Kit. A link to access the Speaker Kit will be e-mailed to the speaker for each accepted abstract. All PC-based presentations will utilize the SEG-provided computer and projector with no exceptions. A standard template for oral presentations has been set and is strongly recommended to be used when creating your presentation files.

Presentation Type Preference

Papers will be assigned to poster or oral after the review process. You have the opportunity to designate your preferred presentation type when submitting your abstract. A no-preference option will be available. (Please note: Your preference is not always accommodated.)

Presentation Time

Presentations should not exceed 20 minutes including the discussion.

Instructions for Typing Abstracts

Abstracts will be published on conference proceedings and/or online.

A sample expanded abstract and Microsoft Word templates for are available online for your reference. **You will NOT be given the opportunity to resubmit a new version of your abstract. NO EXCEPTIONS!**

Typographical Instructions

- ◆ All abstracts must be written in English and formatted to fit an 8.5" wide x 11" high page (U.S. letter-size paper), **Word file**.
- ◆ Abstracts are **limited to four pages** and must be single-spaced. Abstracts should have no more than 2,000 words and not more than six figures.
- ◆ A reference list should be included at the end of the expanded abstract and should be prepared in the next page (i.e. page 5 if applicable).
- ◆ **Preferred font is 9-point, normal weight, Times New Roman or similar style.**
- ◆ **Preferred format is 2 columns.**
- ◆ Fonts used in equations must be fully licensed and embeddable fonts. Be certain that type within figures is of a size that facilitates easy reading.
- ◆ Margins must be set as follows:

	Page 1	Pages 2, 3, and 4
Top	1.5 inch (39 mm)	1.0 inch (26 mm)
Bottom	1.5 inch (39 mm)	1.5 inch (39 mm)
Left	1.0 inch (26 mm)	1.0 inch (26 mm)
Right	1.0 inch (26 mm)	1.0 inch (26 mm)

- ◆ Text must be justified on both the right and left sides. Authors may use one, two, or three columns of type per page and can change the number of columns within an abstract to accommodate illustrations. Your illustrations can be in color or black and white.
- ◆ The first page begins with the title of the abstract set in 11-point bold type, aligned on the left margin. **Use lowercase for all words in the title except for the first word and proper nouns.** The title should not exceed 235 characters.
- ◆ On the line immediately after the title of the abstract, enter the author name and affiliation line, which is the name and affiliation of each author in 10-point italic type, also aligned on the left margin. **Do not include cities and countries.** Place an asterisk (*) next to the name of the person presenting the abstract (e.g., Joe Smith* and Jill Brown, Baxter Research). Remember: The affiliation for each author should be listed as the company/institution that employed the author at the time the research was conducted.
- ◆ Enter two lines of space (two returns) between the last line of the author name and affiliation line and the first line of your abstract. Category headings (e.g. Summary) should be 9-point bold type, left alignment only. Separate the category headings from the rest of the text with one line of space (one return) before and one line of space after the heading.
- ◆ Empty lines throughout the abstract should be 9-point.
- ◆ Paragraphs should not be indented; instead, separate paragraphs with one line of space (one return).
- ◆ Pages 2, 3, and 4 must contain a shortened version (not to exceed 40 characters) of the abstract title at the top of each page in 10-point bold type, aligned in the center of the abstract. There should be one line of space (one return) between the shortened title and the text of the abstract.
- ◆ Organization of the abstract's content should closely follow this scheme:
 1. Summary
 2. Introduction
 3. Theory and/or Method
 4. Examples (optional)
 5. Conclusions
 6. Acknowledgments (optional)
 7. References

Instructions to Submit Online

Deadline: All expanded abstracts must be submitted to aklerk@seg.org before 5 p.m. U.S. Central Daylight Time, 5 July 2021 for consideration.

1. Prepare your computer. Your Internet browser must be one of the following:
 - ◆ Google Chrome
 - ◆ Microsoft Edge

2. Before you begin the online submission process, gather all necessary information. You may use the abstract information form found at the conclusion of this kit to guide you in preparing your submission information. This information should include the following:
 - ◆ **Primary emphasis category**—Select one from the list provided in this kit.
 - ◆ **Presentation Style**—Poster, Oral, and No Preference
 - ◆ **About Presentation**—Previously submitted to or presented at another conference, etc?
 - ◆ **Primary author information**—Include e-mail address, company name, full mailing address, phone number, SEG member number. A valid e-mail address is required. If you are a student, please mark “yes” in the student box in order to be considered for the student paper awards.
 - ◆ **Primary contact information**—Include e-mail address, company name, full mailing address, phone number, SEG member number. This is the person who will receive communication regarding this abstract. *The primary contact MUST be available by e-mail.* The primary contact and the primary author may be the same person.
 - If the primary contact does not have a valid e-mail address, please obtain one. Free e-mail addresses are available from a variety of sources.
 - ◆ **Speaker information**—Include e-mail address, company name, full mailing address, phone number, SEG member number. A valid e-mail address is required.
 - ◆ **Secondary authors**—Include all authors of your paper. You will search our database for your authors. If they are not found, you will be responsible for entering their contact information. You will need his or her e-mail address, company name, full mailing address, phone number, SEG member number.
 - ◆ **References**—Remember that the reference list should be included at the end of the expanded abstract as fifth page.
 - ◆ **Address**—This will be used only if we need to contact you via postal mail regarding your presentation. Please complete this section as you would if you were addressing an envelope to yourself. **Please note that status notification letters will be sent only via e-mail.**
 - ◆ **Intended Audience Selection**—Please select the category from the provided list that best describes your target audience relative to their assumed knowledge of the abstract's general topic area.
 - ◆ **Expanded Abstract**—The only file type that SEG will accept is WORD (.docx). No security restrictions or links may be included in the files. Abstracts that are not in the prescribed format, with correct file name extensions, will not be accepted for review. Fonts must be embedded in your abstract. There is a 10 MB size limit on each uploaded abstract. Please have your abstract ready before you begin the online submission process.

3. If you are now ready to submit online:
 - ◆ Email your abstract to aklerk@seg.org.
 - ◆ If you encounter problems, please contact the Event Manager at aklerk@seg.org, for assistance.

Primary Emphasis Category List

As instructed on the previous page, please select one primary emphasis category to enter into the online submission form. This is required information.

Conference Themes and Topics:

<p>General Topics/New Technologies Session Topics</p> <ul style="list-style-type: none"><input type="checkbox"/> Engineering Geophysical Methods<input type="checkbox"/> Near Surface Geophysics to Improve Exploration Geophysics<input type="checkbox"/> Method Integration in Engineering Geophysics<input type="checkbox"/> Developments in UAV Geophysical Survey<input type="checkbox"/> AI and Machine Learning in Engineering Geophysics<input type="checkbox"/> Advances in Acquisition and Sensor Technologies<input type="checkbox"/> Advanced Geophysical Tomographic Methods<input type="checkbox"/> Advanced Geophysical Imaging and Characterization Methods<input type="checkbox"/> Monitoring: Passive, Time-lapse <p>Geo-Civil Engineer Session Topics</p> <ul style="list-style-type: none"><input type="checkbox"/> Geotechnical: Geophysical Determination of Properties & Parameters<input type="checkbox"/> Non-destructive Testing on Pavement, Concrete, and Lining Structure<input type="checkbox"/> Subsurface Target Delineation and Classification<input type="checkbox"/> Geophysics to Support Underground Storage	<p>Geo-Environmental Session Topics</p> <ul style="list-style-type: none"><input type="checkbox"/> Geophysics and Climate Change<input type="checkbox"/> Environmental Investigation and Remediation Monitoring<input type="checkbox"/> Environmental Radioactivity and Remediation Methods <p>Geo-Hazard (Natural & Human-made) Sessions</p> <ul style="list-style-type: none"><input type="checkbox"/> Disaster Mitigation Applications: landslides, voids, berms/levees/dams<input type="checkbox"/> Earthquake studies <p>Geo-Resources Sessions</p> <ul style="list-style-type: none"><input type="checkbox"/> Groundwater Management and Hydrogeophysics<input type="checkbox"/> Geothermal Exploration<input type="checkbox"/> Geophysics applied to Green Energy<input type="checkbox"/> Mining Geophysics <p>Special Sessions in Geophysics</p> <ul style="list-style-type: none"><input type="checkbox"/> Planetary Near-Surface Geophysics<input type="checkbox"/> Gas Hydrate
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Copyright Transfers and License Agreements

These agreements are executed during the online submission process.

TRANSFER OF COPYRIGHT for publication of Expanded Abstract

For and in consideration of the potential publication of the expanded abstract (the "Work") by the Society of Exploration Geophysicists ("SEG"), I, the submitter of the Work, as lead and/or corresponding author and/or rightsholders and acting on behalf of all authors and/or owners of copyright and other rights in the Work ("Authors"), hereby transfer, assign, and convey all right, title, interest, and worldwide copyright in the Work to SEG, effective if and when the Work is accepted for presentation at the International Conference on Engineering Geophysics, 25-28 October 2021, Al Ain, UAE (ICEG2021) and related publication, subject only to limitations expressed in this Transfer of Copyright (the "Agreement"). I warrant that I am authorized and empowered to represent all Authors with respect to the Agreement, which is executed jointly and severally by Authors if copyright transfer is from multiple individuals or entities. The Work includes the article and all material to be published within and with the article in any and all media, including but not limited to tables, figures, graphs, source code, movies, and other multimedia. Responses to discussions of the Work, errata, and other similar material directly related to the Work that may arise subsequent to publication also are considered part of the Work. In the event the Work incorporates copyrighted material of others, Authors warrant that all required permissions or releases have been secured. Authors agree to indemnify, defend, and hold SEG, its directors, officers, employees, and agents harmless against any claims to the contrary.

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I certify on behalf of myself, all other coauthors (if any), and the presenter(s) that prior to presentation, authors and presenters have secured or shall secure all required permissions or releases for material incorporated in the Work. I assert on behalf of myself, all of my coauthors (if any), and all presenters that I (we) expect no compensation from SEG or its agents related to any broadcast, recording, publication, or dissemination of the oral presentation and shall receive none.

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2. SEG shall acknowledge author copyright ownership in the Work with a standard notice such as “© 2021 by the Author(s).”
3. SEG may sublicense and distribute the Work in conjunction with licenses it may grant for access to the expanded abstract associated with the Work or to any broadcast and to any recording made of the ICEG2021 oral presentation of the Work.
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License agreement for presentation broadcast and recording

I hereby grant the Society of Exploration Geophysicists (“SEG”) and its agents a nonexclusive, irrevocable, royalty-free, worldwide license to stream or otherwise broadcast in both audio and video form my presentation (“Presentation”) for the International Conference on Engineering Geophysics 25-28 October 2021 (“ICEG2021”) either (1) for one time from the time of its first showing within the ICEG2021 onsite and/or virtual meeting, (2) for one month from the time of its first showing within the ICEG2021 virtual meeting until the meeting is taken offline on 29 November 2021 (“one-month presentation rights granted”), or (3) during a designated time for its showing plus anytime thereafter in perpetuity through an SEG channel (“perpetual presentation rights granted”), as I have here selected:

(Select one):

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