

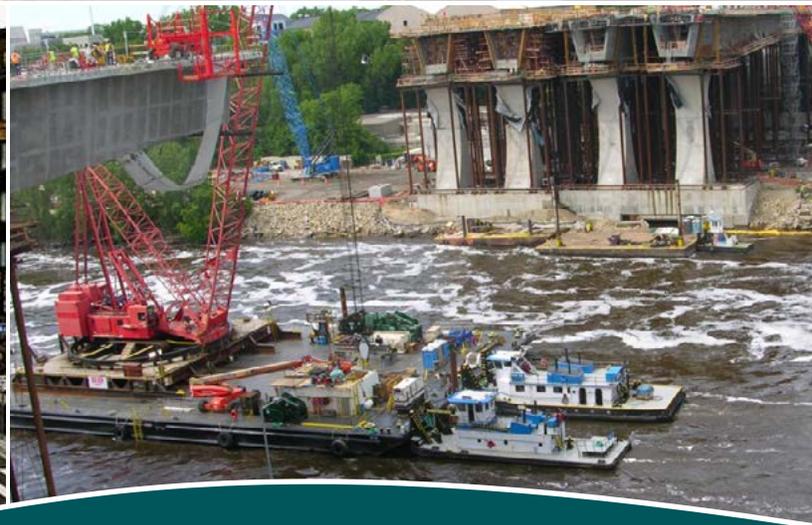
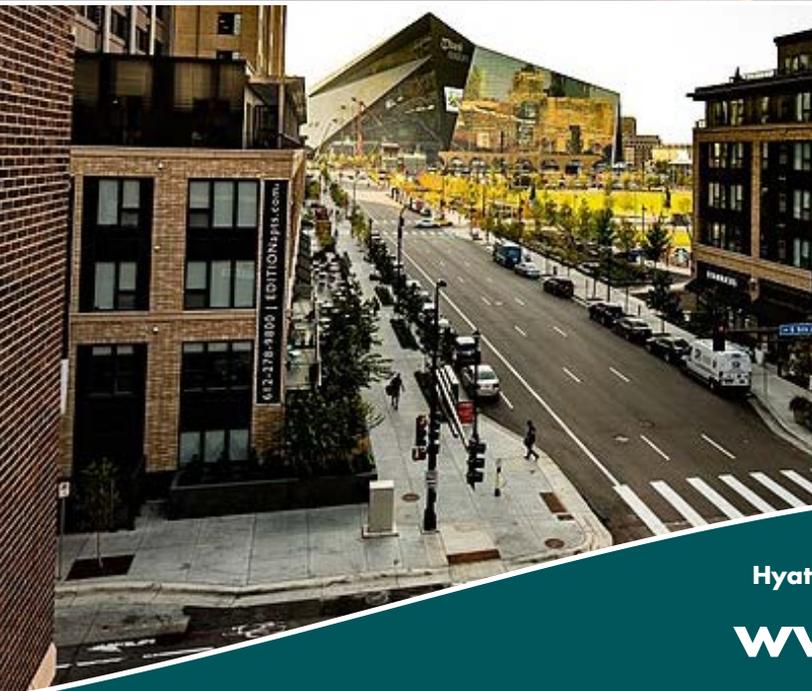
CALL FOR ABSTRACTS



GEO-CONGRESS 2020

Minneapolis, Minnesota | February 25-28

Vision, Insight, Outlook



Hyatt Regency Minneapolis | Minneapolis, MN USA

www.geocongress.org

Join Us for Geo-Congress 2020!

About Minneapolis

Rivers and lakes are a characteristic of Minnesota, and Minneapolis is no exception to their influence on lifestyle and recreation year-round. We are a progressive destination with a vibrant downtown and dramatic skyline. The city is home to professional sports, multimodal transit, interconnected park and bikeway systems, abundant art, theater, museums, and fabulous local, national, and international food. Come enjoy a conference venue highlighted by craft brews, ice fishing, and “Minnesota Nice.” Situated among 13 lakes, the Mississippi River, and a waterfall, Minneapolis is compact, accessible, and easy-to-navigate, destination.

On behalf of the Program Committee, you are cordially invited to participate in the technical program of the ASCE Geo-Institute’s most dynamic, informative, inspirational, and innovative 2020 event: Geo-Congress 2020: Vision, Insight, Outlook, which will be held February 25 – 28, 2020 in Minneapolis, MN. Two decades into a new century, we are using our 2020 conference as an opportunity to reflect on the past, assess the present, and imagine the future.

In 2020, the Geo-Congress will bring the quality you expect, the networking opportunities you value, and the peer interaction that only in-person experiences provide. We are introducing some new programming and themes to make this conference a “signature event” for consulting engineers, contractors, researchers, owners, and students.

Geo-Congress 2020 will feature a variety of meaningful programming experiences whether you are a first-time young engineer or a veteran congress attendee: keynote plenary lectures, workshops, round-table discussions, invited panels, case histories, research papers, poster sessions, short courses, demonstrations, and networking event.

Mark your calendars and submit your abstract now!

Partners



COASTS, OCEANS,
PORTS & RIVERS
INSTITUTE



THE CANADIAN
GEOTECHNICAL SOCIETY
LA SOCIÉTÉ CANADIENNE
DE GÉOTECHNIQUE



NOTICE: Expectation of Geo-Congress Attendance

Every paper awarded final acceptance for presentation is expected to have one author attend the conference and present the paper. Publication in the conference proceedings without registering for the conference and presenting the paper is not intended. If you will not be able to attend, please do not submit an abstract.

An Invitation to Attend...

You are invited to submit an abstract to any of the topics listed in this document. Abstracts must provide all requested information in order to be considered:

- Abstracts must be submitted via the online CATALYST Submission Management System: <https://catalyst.ascelibrary.org/catalyst/#collection/408/submission>
- Information about how to log into CATALYST, create a new account, and navigate through the submission process is available: <https://catalyst.ascelibrary.org/catalyst/#collection/408/submission>

Submitting Author

- The submitting author should be the author that will upload the draft and final versions of the paper, receive and respond to reviews, and present the final paper at the conference. First name, last name, and email address are required.

All Authors

- Submissions must include the full names, credentials, affiliations, contact information and email addresses for all authors, including the submitting author.

Abstract

- Submit your abstract to one of the topics listed on the next page. Submissions should not be intended for inclusion in a Special Session except in certain circumstances. To learn more about submitting a proposal for a Special Session, see the **Geo-Congress 2020 Call for Special Sessions and Short Courses**.
- Authors may indicate what sort of presentation (oral or poster) they would prefer. Please note, this is only an opportunity to express a preference and not a guarantee that the conference will be able to honor that preference.
- Abstracts are expected to be between 100 to 400 words entered as plain text. DO NOT INCLUDE: keywords, HTML formatting codes, data from other database fields (i.e., title, authors, etc.), images, tables, or other graphic elements.

Copyright Transfer Agreement

- **IMPORTANT:** Submitting authors are required to sign the ASCE Copyright Transfer Agreement (CTA) during the submission process, stating that 1) all authors listed on the manuscript are aware of their authorship status and qualify to be authors on the manuscript, 2) all content, figures (drawings, charts, photographs, etc.), and tables in the submitted work are either original work created by the authors listed on the manuscript or work for which permission to reuse has been obtained from the creator, and 3) the author transfers copyright to the ASCE.
- Further details are available at: <https://ascelibrary.org/doi/book/10.1061/9780784478998>
- Should circumstances require, submissions can be withdrawn, and the CTA rendered null and void, any time before October 30, 2019. All abstracts are due by January 31, 2020.

Conference Proceedings

The Geo-Congress 2020 proceedings will be published as a series of volumes organized around particular topics. Most of the volumes will contain technical papers and be published as Geotechnical Special Publications (GSP). Other volumes, reserved for case histories and lessons learned in general practice, will be Geotechnical Practice Publications (GPP).

■ Geotechnical Special Publications (GSP):

GSPs originated with the proceedings of the first geotechnical specialty conference (held in 1960 on the Shear Strength of Cohesive Soils), and the GI has administered the publications ever since its formation in 1996. GSPs are a primary outlet for continuing the GI's tradition of geotechnical knowledge transfer. They are recognized internationally as premier publications for geotechnical engineering and the geoprofession. Papers published in a GSP are indexed in Civil Engineering Database, Google Scholar, and others. A GSP is special because during a three-phase submission process, the content is subject to a technical review. Each paper must receive a minimum of two positive peer reviews before final acceptance.

■ Geotechnical Practice Publications (GPP):

GPPs showcase practice-oriented papers presented at conferences, and serve as a means to make material developed by practicing engineers available to a broader audience. Papers included in a GPP must be reviewed by an editorial board or receive one positive review from a designated reviewer. The Proceedings volumes will be released as e-books from the ASCE Library.

NOTE: Copies of the proceedings will be provided ONLY to those who register for and attend the conference, or to those who purchase a copy after the conference. Complimentary copies of the proceedings are not automatically provided to authors—only to conference attendees.

Questions? Contact:

- For technical support related to the CATALYST submission system: Once signed in, click on Support at the top to submit a support ticket. If you are unable to log in, contact the CATALYST Help Desk by clicking on Site Support at the bottom of the login page.
- For all other issues: Bradley Keelor, Geo-Institute of ASCE, at bkeelor@asce.org.

Submit your abstract to one of these topic areas:

Special Topics for Geo-Congress 2020

- **Geotechnics of Coasts, Oceans, Ports, and Rivers**
Flood control; Lake Agassiz Clays and Flood control structure designs. Slope and costal erosion stabilization. Geotechnics of marine structures
- **“Common Ground” Geotechnical Issues Shared by the US and Canada**
Boarder projects and topics of international interest: Example: Projects along the great lakes, peat, permafrost, and railways.
- **50th Anniversary of Minnesota Geotechnical Society; University of Minnesota 68th Annual Geotechnical Conference**
Kersten Lecture. Invited international speakers. Local and regional projects and case histories. Example: Geotechnics of MN Sports Stadiums: Target Center, Xcel, Twins, US Bank, MN United
- **The Geotechnics of Alternative Project Delivery**
Impact of project procurement (traditional, CMGC, DB, P3) on geotechnics. Performance-based work.
- **Geo-Education**
rends in geotechnical engineering education, incorporating research into education, use of case histories in education
- **Construction, Inspection, and Monitoring**
Innovative monitoring techniques; UAS inspection; LiDAR; photogrammetry; thermal imaging in geoconstruction
- **Advances in Geo-Computing**
Cloud computing, new methods in numerical methods (discrete element, FDEM, coupled processes, etc.), visualization techniques; geotechnical engineering and the fourth dimension
- **Geo-Systems**
Integration of geotechnical engineering with other science and engineering disciplines; bio-inspired genetically, geo-structural engineering; hydraulics/scour- soil transport; beyond the thermal pile: geothermal applications
- **Geo-Forensics: Hindsight is 20/20**
Failure case histories; multi-disciplinary teams for geotechnical failure investigations; have we really learned from past failures? Does history always need to repeat itself?
- **Geo-Ethics**
Socially responsible geotechnical practice; reporting of geotechnical data; are we as confident as we appear on paper? Geotechnical engineers, risk, responsibility, and the legal system
- **States of Stress**
An examination of the challenges of our practice. Moving forward in a dynamic and rapidly changing world. Responding to the priorities and needs of civil infrastructure within constraints and demands related to time, talent, budget, coordination, and communication.

Geotechnical Engineering Topics

These topics correspond to the organization of the Geo-Institute’s standing technical committees:

- **Computational Geotechnics**
- **Deep Foundations**
- **Earth Retaining Structures**
- **Earthquake Engineering and Soil Dynamics**
- **Embankments, Dams, and Slopes**
- **Engineering Geology and Site Characterization**
- **Geoenvironmental Engineering**
- **Geophysical Engineering**
- **Geosynthetics**
- **Geotechnics of Soil Erosion**
- **Grouting**
- **Pavements**
- **Risk Assessment and Management**
- **Rock Mechanics**
- **Shallow Foundations**
- **Soil Improvement**
- **Soil Properties and Modeling**
- **Sustainability In Geotechnical Engineering**
- **Underground Engineering and Construction**
- **Unsaturated Soils**



Paper Submission

GSP Paper Submission Process and Initial Deadlines

Phase One – Abstract Submission

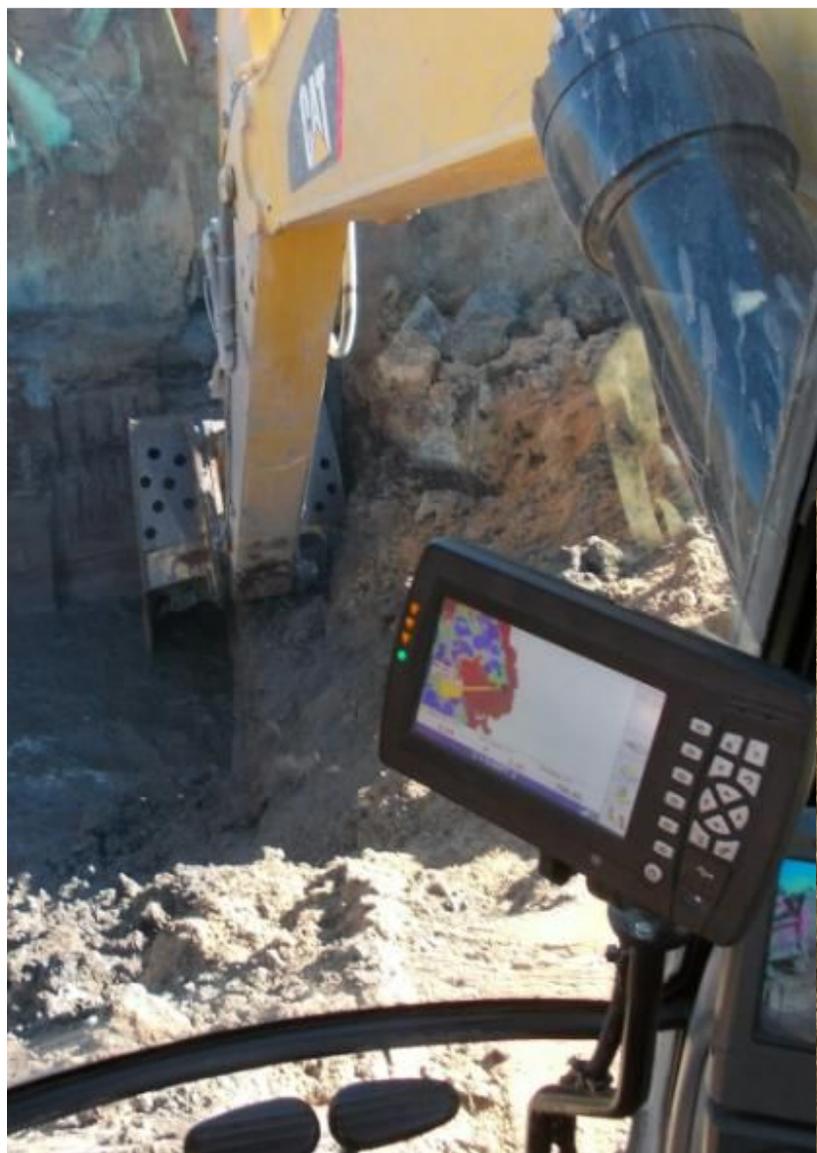
1. **Submission:** Authors submit abstracts for consideration by January 31, 2019.
2. **Review and Decision:** The Conference Program Committee will review all abstracts. The committee will decline abstracts that do not fit the theme of the conference, do not have strong scientific merit, are too commercial, or are unlikely to produce a quality paper.
3. **Notification:** Notice of these decisions will be sent to the authors by February 28, 2019.

Phase Two – Draft Paper Submission

1. **Submission:** Authors submit draft papers for consideration by May 1, 2019.
Draft papers must be formatted according to ASCE guidelines. A sample document that may be used as a template is available at: <http://ascelibrary.org/userimages/ContentEditor/1452004406712/author%20formatting%20instructions.docx>
2. **Primary Reviews:** Session Chairs will arrange for a minimum of two preliminary peer reviews for each draft paper based on the ASCE Guidelines for Peer Reviewers of Proceedings Papers, available at <http://ascelibrary.org/userimages/ContentEditor/1452004265291/reviewer%20guidelines.pdf>
3. **Decisions:** Then, based on the results of those preliminary reviews and their own judgement, the chairs will make decisions about whether or not to accept the draft paper. Papers may be declined for the same reasons as an abstract, for poor subject treatment or overall quality, or for not following required ASCE paper format. Authors of accepted papers will be invited to submit a final, revised version of their paper.
4. **Notification:** Notice of these decisions, along with the reviews used to make the decision (presented anonymously), will be sent to the authors by July 10, 2019.

Phase Three – Final Paper Submission

1. **Submission:** Authors submit final versions of their approved draft papers for consideration by August 21, 2019.
2. **Review and Decision:** Session Chairs will review the final papers for compliance with primary reviewer suggestions. Based on instructions from the Program Committee, Session Chairs will accept a specific number of papers for oral podium presentation at the conference. Usually, no more than six papers are presented at the podium during a 90-minute technical session. Other papers submitted to the session may be declined or offered an alternative presentation type, depending on the conference. Final decisions about presentation formats will be made at this time.
3. **Notification:** Notice of the final decision will be sent to the authors by September 18, 2019.



Preliminary Program Schedule

(Subject to Change)

Tuesday, February 25, 2020

8:00 a.m. – 5:00 p.m.	Short Courses
5:30 p.m. – 7:00 p.m.	H. Bolton Seed Medal Lecture
7:00 p.m. – 9:00 p.m.	Welcome Reception with Exhibitors and Sponsors

Wednesday, February 26, 2020

8:00 a.m. – 9:30 a.m.	Special Sessions and Keynote Lectures
10:00 a.m. – 11:30 a.m.	Parallel Technical and Special Sessions I
1:00 p.m. – 2:30 p.m.	Parallel Technical and Special Sessions II
3:00 p.m. – 5:00 p.m.	Parallel Special Sessions and Posters
8:00 a.m. – 5:00 p.m.	Student Competitions and Activities
5:00 p.m. – 6:30 p.m.	Mercer Award Lecture

Thursday, February 27, 2020

8:00 a.m. – 9:30 a.m.	Special Sessions and Keynote Lectures
10:00 a.m. – 11:30 a.m.	Parallel Technical and Special Sessions III
1:00 p.m. – 2:30 p.m.	Parallel Technical and Special Sessions IV
3:00 p.m. – 5:00 p.m.	Parallel Special Sessions and Posters
5:00 p.m. – 6:30 p.m.	Karl Terzaghi Lecture

Friday, February 28, 2020

8:00 a.m. – 9:30 a.m.	Special Sessions and Keynote Lectures
10:00 a.m. – 11:30 a.m.	Parallel Technical and Special Sessions V
11:30 a.m. – 1:00 p.m.	Luncheon and Awards
1:30 p.m. – 3:00 p.m.	Ralph B. Peck Award Lecture

Conference Program Committee

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Minnesota Department of Transportation

Technical Program Co-Chair:

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Technical Program Co-Chair:

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Construction, LLC

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