

CONFERENCE PREVIEW



GEO-RISK 2017

Geotechnical Risk from Theory to Practice

Denver, Colorado | June 4-6

6th International Symposium on Geotechnical Safety and Risk

ABOUT DENVER

Denver is a major regional center that offers tremendous opportunities for a broad and inclusive conference in the area of geotechnical risk assessment, cutting across industry, government and academia.

The city is home to numerous important engineering corporations such as CH2M Hill, MWH Global Inc., Jacobs and AECOM Technology Corp. The city also hosts several major government organizations, including the US Army Corps of Engineers Risk Management Center, the Bureau of Reclamation, and the USGS.

On the academic and training side, the Front Range area just east of the Rockies is home to seven universities with accredited Civil Engineering and Civil Engineering Technology degrees, four of which (the Colorado School of Mines, the University of Colorado at Boulder, the University of Colorado at Denver and the Colorado State University at Fort Collins) offer doctoral level research programs.



PLAN ON PARTICIPATING IN GEO-RISK 2017

On behalf of the Risk Assessment and Management Technical Committee (RAM) of the Geo-Institute (G-I) of the American Society of Civil Engineers (ASCE) and the Geotechnical Safety Network (GEOSNet) you are invited to attend Geo-Risk 2017 which will be held in downtown Denver on June 4–6, 2017.

This conference is the first specialty conference offered by the ASCE on geotechnical risk since Geo-Risk 2011 in Atlanta. It will also be the 6th offering of the International Symposium on Geotechnical Safety and Risk (ISGSR), a successful biennial series of international conferences most recently held in Rotterdam (2015) and Hong Kong (2013). It is also the first time the ISGSR series of international conferences has been hosted in the USA.

The theme of Geo-Risk 2017 is “Geotechnical Risk: From Theory to Practice” and will feature the latest research advances and engineering-practice innovations with a focus on the use of probabilistic and risk methodologies in geotechnical engineering. The conference will include a wide range of knowledge-enhancing technical sessions, short courses, workshops and software demonstrations. Several hundred U.S. and international participants from industry, academia, and government agencies are expected to attend.

SAVE!

Special Registration Discounts for Local Chapter Members!

Registration for Geo-Risk 2017 will open in January 2017. Contact Helen Cook, G-I Program Specialist, (hcook@asce.org) at that time, using ‘ROCKY MOUNTAIN DISCOUNT’ in your subject line to receive a code worth \$50 off your conference registration.

Grand Hyatt Denver

georiskconference.org

#GeoRisk17

PROGRAM OVERVIEW

Interest and use of probabilistic methods and risk assessment tools in geotechnical engineering has grown rapidly in recent years. The natural variability of soil and rock properties, combined with a frequent lack of high quality site data, makes a probabilistic approach to geotechnical design a logical and scientific way of managing both technical and economic risk. The burgeoning field of geotechnical risk assessment is evidenced by numerous publications, textbooks, dedicated journals and sessions at general geotechnical conferences. Risk assessments are increasingly becoming a requirement in many large engineering construction projects. Probabilistic methods are also recognized in some design codes as a way of delivering reasonable load and resistance factors (LRFD) to target allowable risk levels in geotechnical design.

Topics for Geo-Risk 2017 will include, but are not limited to:

- Theory and practice on risk assessment and management in all fields of geoenvironmental engineering
- Geohazards such as landslides, slope failures, dams and levees, earthquakes, and geoenvironmental hazards
- Code harmonization and acceptable risk levels
- Reliability-based design
- Load and resistance factor design (LRFD)
- Risk-sharing and communication among client, consultant, insurer, and financier
- Performance-based geoenvironmental engineering practice
- Spatial variability and site characterization
- Uncertainty modeling
- Recent advances in the applications of statistics, probability, and reliability-based methods in geoenvironmental engineering

Geo-Risk 2017 will give you a fantastic opportunity to update and expand your technical knowledge while exploring the vibrant city of Denver and the beauty of Colorado with colleagues, friends, and family.

Sunday, June 4, 2017

- 8:00 a.m. – 5:00 p.m. Short Courses and Workshops
5:00 – 6:00 p.m. **Suzanne Lacasse Welcome Lecture**
What Do You Bet? Bayesian Thinking for Geotechnical Engineers, Gregory B. Baecher, Ph.D., M.ASCE, University of Maryland
- 6:00 – 8:00 p.m. Welcome Reception with Exhibitors

Monday, June 5, 2017

- 9:00 – 10:00 a.m. **Wilson Tang Opening Lecture**
Future Directions in Reliability-Based Geotechnical Design, Gordon A. Fenton, Ph.D., P.Eng, P.E., M.ASCE, Dalhousie University
- 10:00 – 10:30 a.m. Break with Exhibitors
10:30 a.m. – 12:00 p.m. Parallel Technical Sessions – I
12:00 – 1:30 p.m. Lunch with Exhibitors
1:30 – 2:30 p.m. *Geotechnical Risk Management and Reliability Based Design – Lessons Learned*, Dennis E. Becker III, Ph.D., P.E., M.ASCE, Golder Associates Ltd.
Robustness and Eurocode 7, Brian Simpson, OBE, FEng, Ph.D., FICE, Eur. Ing, Arup Fellow, Arup Geotechnics
- 2:30 – 4:00 p.m. Parallel Technical Sessions – II
4:00 – 4:30 p.m. Break with Exhibitors
4:30 – 6:00 p.m. Parallel Technical Sessions – III

Tuesday, June 6, 2017

- 9:00 – 10:00 a.m. *Dam Safety Risk - From Deviance to Diligence*, Steven G. Vick, P.E., Consulting Geotechnical Engineer
Risk Analysis is Fundamentally Changing the Landscape of Dam Safety in the United States, John W. France, P.E., D.GE, D.WRE, M.ASCE, AECOM, Jennifer L. Williams, AECOM
- 10:00 – 10:30 a.m. Break with Exhibitors
10:30 a.m. – 12:00 p.m. Parallel Technical Sessions – IV
12:00 – 1:30 p.m. Lunch with Exhibitors
1:30 – 2:30 p.m. *Probabilistic Methods for Assessing Soil Liquefaction Potential and Effect*, C. Hsein Juang, Ph.D., P.E., F.ASCE, Clemson University
Performance of Structures Founded in Spatially-Variable Soil: A Probabilistic SSI Framework, Armin W. Stuedlein, P.E., M.ASCE, Oregon State University
- 2:30 – 4:00 p.m. Parallel Technical Sessions – V
4:00 – 4:30 p.m. Break with Exhibitors
4:30 – 6:00 p.m. Parallel Technical Sessions – VI
6:30 – 9:30 p.m. Dinner Banquet

Wednesday, June 7, 2017

- 9:00 a.m. – 5:00 p.m. Technical Tours(s) to be determined

Questions? Contact:

Regarding the program: D. Vaughan Griffiths (d.v.griffiths@mines.edu), Colorado School of Mines
For other general inquiries: Helen E. Cook (hcook@asce.org), Geo-Institute of the ASCE