

FINAL PROGRAM



GEO-EXTREME 2025

Long Beach, California | November 2-5
ASCE Specialty Conference

Geotechnical Engineering for Extreme Events



Hyatt Regency Long Beach

www.geo-extreme.org

Welcome to **Geo-Extreme 2025**

Schedule at a Glance *(Subject to change)*

Saturday, November 1

9:00 a.m. – 3:00 p.m. Field Trip: Palos Verdes Peninsula Landslides with Tim Stark *(sold out)*

Sunday, November 2

7:00 a.m. – 11:30 a.m. Registration Open, [Regency Foyer](#)

8:00 a.m. – 5:00 p.m. Short Course: Seismic Site Response: Ergodic vs. Site-Specific Methods, [Shoreline A](#)

8:00 a.m. – 5:00 p.m. Short Course: Advances in Slope Stability Analysis and Shear Strength Applications, [Shoreline B](#)

11:30 a.m. – 1:00 p.m. Registration Closed for Lunch

1:00 p.m. – 6:00 p.m. Registration Open

5:00 p.m. – 7:00 p.m. Exhibits Open, [Regency Ballroom](#)

5:00 p.m. – 7:00 p.m. Welcome Reception with Exhibitors, [Regency Ballroom](#)

Monday, November 3

7:00 a.m. – 12:00 p.m. Registration Open, [Regency Foyer](#)

8:00 a.m. – 8:10 a.m. Announcements, [Beacon Ballroom](#)

8:00 a.m. – 5:00 p.m. Exhibits Open, [Regency Ballroom](#)

8:10 a.m. – 9:45 a.m. Morning Plenary: Seismic, [Beacon Ballroom](#)

9:45 a.m. – 10:15 a.m. Morning Break in Exhibit Hall, [Regency Ballroom](#)

10:15 a.m. – 12:00 p.m. Technical Sessions, [See page 6](#)

12:00 p.m. – 1:30 p.m. Registration Closed for Lunch

12:00 p.m. – 1:30 p.m. Lunch in Exhibit Hall, [Regency Ballroom](#)

1:30 p.m. – 4:00 p.m. Registration Open

1:30 p.m. – 3:00 p.m. Afternoon Plenary 1: LA Fires: The New Normal, [Beacon Ballroom](#)

3:00 p.m. – 3:30 p.m. Afternoon Break in Exhibit Hall, [Regency Ballroom](#)

3:30 p.m. – 5:00 p.m. Afternoon Plenary 2: Reconnaissance, [Beacon Ballroom](#)

3:30 p.m. – 5:00 p.m. Technical Sessions, [See pages 7](#)

Tuesday, November 4

7:00 a.m. – 12:00 p.m. Registration Open, [Regency Foyer](#)

8:00 a.m. – 8:10 a.m. Announcements, [Beacon Ballroom](#)

8:00 a.m. – 5:00 p.m. Exhibits Open, [Regency Ballroom](#)

8:10 a.m. – 9:45 a.m. Morning Plenary: Climate, [Beacon Ballroom](#)

9:45 a.m. – 10:15 a.m. Morning Break in Exhibit Hall, [Regency Ballroom](#)

10:15 a.m. – 12:00 p.m. Technical Sessions, [See page 8](#)

12:00 p.m. – 1:30 p.m. Registration Closed for Lunch

12:00 p.m. – 1:30 p.m. Lunch in Exhibit Hall, [Regency Ballroom](#)

1:30 p.m. – 4:00 p.m. Registration Open

1:30 p.m. – 3:00 p.m. Afternoon Plenary 1: Wildfire and Adaptation, [Beacon Ballroom](#)

3:00 p.m. – 3:30 p.m. Afternoon Break in Exhibit Hall, [Regency Ballroom](#)

3:30 p.m. – 5:00 p.m. Afternoon Plenary 2: Regional Modeling & Sensing, [Beacon Ballroom](#)

3:30 p.m. – 5:00 p.m. Technical Sessions, [See page 9](#)

Wednesday, November 5

7:30 a.m. – 11:00 a.m. Registration Open, [Regency Foyer](#)

8:00 a.m. – 8:10 a.m. Announcements, [Beacon Ballroom](#)

8:10 a.m. – 9:45 a.m. Morning Plenary: Mega Landslides, [Beacon Ballroom](#)

9:45 a.m. – 10:15 a.m. Morning Break, [Regency Foyer](#)

10:15 a.m. – 12:00 p.m. Technical Sessions, [See page 11](#)

Program Committee

Conference Co-Chairs

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Welcome to Long Beach

FACING THE CHALLENGE OF A CHANGING CLIMATE TOGETHER

Dear Colleagues and Friends,

Welcome to the second Geo-Extreme Conference! We are glad you are attending, and we hope you have a great and enriching experience during the conference. The Embankments, Dams, and Slopes (EDS) Technical Committee of the ASCE Geo-Institute previously organized three large and successful slope stability related conferences in 1966 and 1992 at the University of California at Berkeley, and 2013 in San Diego, CA. Between 2005 and 2017, a series of extreme events, including Hurricanes Katrina (2005), Sandy (2012), Harvey, Irma, and Maria (2017) and Earthquakes, including Tohoku in Japan (2011) and Gorkha in Nepal (2015), prompted EDS members to propose and organize the first Geo-Extreme Conference in Savannah, GA in November 2021. Encouraged by the success of this first conference, the EDS Committee proposed the current Geo-Extreme specialty conference to address the impacts of recent wildfires that affected California, including the 2020 August Complex and 2021 Dixie Fire, and 2025 Palisades fire, the major earthquakes that affected Indonesia in 2021 and in Turkey-Syria in 2023, as well as recent developments in Remote sensing and Earth observation, Artificial Intelligence, Climate, and Geotechnical Earthquake Engineering. When selecting Long Beach, California, for the conference, we did not anticipate that the Los Angeles area region would be devastated by the historic 2025 January fires nor that in neighboring Palos Verdes more than 200 homeowners evacuated the Portuguese Bend and Seaview areas in September 2024.

The urgent and pressing societal problems that extreme events create and the impacts they pose on the built and natural

environment is of major concern to engineers, and their study highly multidisciplinary in nature. Historical records show that the number of (CPI)-adjusted billion-dollar weather and climate disaster events in the United States has significantly increased, with the number of events more than tripling in recent years.

Mitigating the consequences of future extreme events is of outmost importance to society and requires professionals in multiple disciplines to take timely actions, and for geo-professionals to interact broadly with scientists, engineers, emergency managers, resilience and sustainability investigators, insurance experts, and policy makers to properly cope with a wide variety of extreme events that are growing in intensity and propensity, including extreme precipitation, droughts, debris flows, and melting permafrost.

Geo-Extreme 2025 provides a unique opportunity to explore how we can make our communities, infrastructure, and systems more resilient to extreme events, especially now, given all the ongoing and recent extreme events nationally and internationally. We hope that Geo-Extreme 2025 will provide a forum for a wide array of multi-disciplinary discussions that move us closer to this shared goal.



Pradel



Jafari

Warm regards,

Conference Co-Chairs

Daniel Pradel, Ph.D., P.E., BC.GE, F.ASCE, *The Ohio State University*

David H. Jafari, PhD, A.M.ASCE, *Texas A&M University*

Short Courses

Sunday, November 2

FULL DAY COURSES

8:00 a.m. – 5:00 p.m.

SEISMIC SITE RESPONSE: ERGODIC VS. SITE-SPECIFIC METHODS

Instructor: Jon Stewart

This short course will explain the differences between ergodic and site-specific (non-ergodic) seismic site response methods. Technical background will be provided, specific procedures described, and example applications shared. The course includes recently approved NEHRP Provisions changes that are expected to be incorporated into building codes, helping attendees prepare for upcoming standards in seismic hazard analysis.

ADVANCES IN SLOPE STABILITY ANALYSIS AND SHEAR STRENGTH APPLICATIONS

Instructors: Timothy D. Stark, Ph.D.; Jack Montgomery, Ph.D.; Jay McKelvey, Ph.D.

This course presents modern approaches to static and seismic slope stability analysis, shear strength selection, and stabilization techniques. Attendees will engage with software demonstrations, real-world case studies, and in-depth discussions on drained/undrained strength testing, debris flows, and slope failures. The course is ideal for geotechnical engineers, regulators, and construction professionals.

The following short courses have been cancelled:

- Rapid Facility Field Geo-Instrumentation Training
- AI: Fundamentals of Machine Learning for Geotechnical Practice.
- Debris Flow Analysis After Wildfires Using HEC Tools

Plenary Speakers

Monday, November 3

Morning Plenary: Seismic Site Response

8:10 – 9:45 a.m.

Session Chairs: Jon Stewart & Youssef Hashash



Baise



Hashash



Stewart

NGA-West3 Ground Motion and Site Response Modeling at Global and Regional Scales (Stewart)

Map-Based Geospatial Site and Basin Terms for Ground Motion Models in the NGA-W3 project (Baise)

Nonlinear Site Amplification Models for the Western United States (NGA-West3) (Hashash)

Audience Questions and Panel Discussion:

Laurie G. Baise, Ph.D., Professor and Chair, Civil and Environmental Engineering, Tufts University, Medford, MA

Youssef Hashash, Ph.D., P.E., NAE, Grainger Distinguished Chair of Engineering, University of Illinois Urbana-Champaign

Jonathan P. Stewart, Ph.D., P.E., NAE, Professor and Sabol-Scott Term Chair of Civil & Environmental Engineering, University of California, Los Angeles

Afternoon Plenary 1: LA Fires: The New Normal

1:30 – 3:00 p.m.

Session Chairs: Nazli Yesiller & Rossana D'Antonio



D'Antonio



Man



Nigg



Yaroslavsky



Yesiller

Introductions (D'Antonio & Yesiller)

Are Today's Cities & Counties Designed Not to Govern? (Yaroslavsky)

A Geotechnical Perspective on the Eaton and Palisades Fire (Man)

The New Wildfire Reality: Vulnerability, Prevention, and Resilience in California (Nigg)

Audience Questions and Panel Discussion:

Zev Yaroslavsky, M.A., Director of the Los Angeles Initiative, Luskin School of Public Affairs, University of California, Los Angeles

William S. Man, P.E., M.ASCE, Assistant Deputy Director, Geotechnical and Materials Engineering Division, Los Angeles County Public Works

Chris Nigg, M.S., ECFO, Fire Chief, President of the League of California Cities Fire Chiefs, La Verne Fire Department

On the week of January 6, 2025, several wildfires broke out in Los Angeles County. Although most of the fires were contained fairly quickly, the Palisades and Eaton Fires continued to rage for over 3 weeks. When the fires were finally extinguished, entire communities were decimated leaving tens of thousands of people homeless in what is the costliest wildfire event in US history. This session will expose the resiliency gaps that led to infrastructure and community devastation, the wildfire's aftermath, the need to rebuild with resilience, the legislative fallout, and

preparing for the new normal. As natural disasters become more frequent and federal recovery funding comes under scrutiny, we should ask ourselves what will be the long-term impact to States and local agencies.

Afternoon Plenary 2: Discoveries from Recent Events, A Vision for the Future: Reconnaissance of Geological, Coastal, and Wildfire Hazards

3:30 – 5:00 p.m.

Discoveries from Recent Events, A Vision for the Future: Reconnaissance of Geological, Coastal, and Wildfire Hazards

Session Chair: Joe Wartman



Akin



Jafari



Stark



Wartman



Zekkos

Introductions (Wartman)

Field Observations of Hurricane Impacts to Natural and Hybrid Infrastructure (Jafari)

Field Measurements to Evaluate Temporal Changes in Post-Wildfire Slope Stability (Akin)

Measuring in Wild Waters - Underwater Reconnaissance data Collection During and After Flood, Surge, and Wave Events (Stark)

TA Perspective on Recent Advances and Opportunities in Geotechnical Disaster Reconnaissance (Zekkos)

Audience Questions and Panel Discussion: (Moderator: Wartman)

Idil Akin, Ph.D., A.M.ASCE, Associate Professor, University of California, Los Angeles

Navid H. Jafari, PhD, A.M. ASCE, Associate Professor of Civil & Environmental Engineering, Texas A&M University

Nina Stark, PhD, Associate Professor, Engineering School of Sustainable Infrastructure and Environment (ESSIE), University of Florida, Gainesville

Dimitrios Zekkos, Ph.D., P.E., M. ASCE, Professor, University of California, Berkeley

Tuesday, November 4

8:10 – 9:45 a.m.

Morning Plenary: Climate Extremes of Water Scarcity and Excess

Session Chairs: Amir AghaKouchak & Farshid Vahedifard



AghaKouchak



Vahedifard

Climate Extremes of Water Scarcity and Excess: A Multidisciplinary Framework for Geohazard Risk (AghaKouchak & Vahedifard)

Audience Questions and Panel Discussion:

Amir AghaKouchak, Ph.D., P.E., F.ASCE, F.AGU, Chancellor's Professor, University of California, Irvine

Farshid Vahedifard, Ph.D., P.E., F.ASCE, Professor and Louis Berger Chair, Tufts University

Afternoon Plenary 1: Wildfire and Adaptation

1:30 – 3:00 p.m

Session Chairs: Ian Floyd & Idil Akin



Akin



Floyd



Lindsay



Rengers



Pradhan



Robichaud

Introductions and Welcome (Floyd & Akin)

The Engineer's Toolbox: Assessing, Modeling and Mitigating in the Post Wildfire Environment (Robichaud)

Post wildfire debris flow hazards: Approaches for Preparedness (Rengers)

Rapid Assessment and Monitoring of Post-Fire Hazards in the 2025 Eaton Fire (Lindsay)

Physics-Driven, Satellite-Informed Distributed Hydrological Modeling in Post-Wildfire Landscapes (Pradhan)

Q/A and Discussion with Panelist (Moderator: Jess Lyons)

Closing Remarks (Floyd & Akin)

Wildfires present significant global threats, impacting hydrology, ecology, and slope stability. These changes often result in increased risks due to erosion, landslides, flooding, and debris flows that threaten communities, economies, and the environment. Increases in wildfire frequency and severity, particularly in the mountainous Western United States, are making these systems more vulnerable. This session will cover response and adaptation to erosion, landslides, and debris flows, focusing on research, data collection, analysis, and modeling. Discussions will include changes to hydrology and soil behavior, as well as models commonly used in the U.S. A panel and forum will address future research needs and requirements. This will include panelist presentation, discussion, and Q/A.

Don Lindsay, Ph.D., P.E. G.E, P.G., CEG, M.ASCE, Supervisory Engineering Geologist, California Geological Survey

Francis K. Rengers, Ph.D., Research Geologist, U.S. Geological Survey

Nawa Pradhan, Ph.D., P.E., M.ASCE, Research Hydraulics Engineer, U.S. Army Engineer Research and Development Center

Pete Robichaud Ph.D., P.E., M.ASCE, Research Engineer, U.S. Forest Service, Rocky Mountain Research Station

Afternoon Plenary 2: Regional Modeling & Sensing for Community Resilience against Natural Hazards

3:30 – 5:00 p.m

Session Chair: Dimitrios Zekkos



Davis



Clark



Puppala



Rossi



Zekkos

Introductions (Zekkos)

The need for Integrated Monitoring and Modeling of Infrastructure Systems (Davis)

Technology Aided Resilience Studies to Assist Levee Asset Inspections and Improve Built Infrastructure Designs in Flooding Environment (Puppala)

Center for Land-Surface Hazards (CLaSH): What It Is, What We've Been Doing, and Opportunities for Engagement with the Geo-Extreme Community (Clark)

California Geological Survey's Burned Watershed Geohazards Program: Predicting Potential Postfire Debris-Flow Hazards across California Prior to Wildfire (Rossi)

Audience Questions and Panel Discussion: (Moderator: Zekkos)

Craig Davis, Manager, C. A., Davis Engineering

Anand J. Puppala, PhD, PE, BC.GE, F-ICE, Dist. M. ASCE, Professor & A.P. and Florence Wiley Chair, Zachry Department of Civil and Environmental Engineering, Director of Center for Infrastructure Renewal (CIR), Texas A&M University, College Station

Marin K. Clark, PhD, Professor, Department of Earth and Environmental Sciences, University of Michigan

Becca Rossi, PG, Engineering Geologist and Geomorphologist, California Geological Survey

Wednesday, November 5

Morning Plenary: Mega Landslides

8:10 – 9:45 a.m.

Session Chair: Tim Stark



Kost



Matasovic



Stark

Mitigation of Portugues Bend Landslide (Matasovic)

Washington Park Reservoir Landslide (Kost)

Cache Creek Landslide (Stark)

Speakers:

Neven Matasovic, Ph.D., P.E., F.ASCE, Senior Principal and Director of Geotechnical Engineering, Geo-Logic Associates, Inc.

Timothy D. Stark, Ph.D., P.E., Dist. M. ASCE, Professor, Dept of Civil & Environmental Engineering, University of Illinois, Urbana-Champaign

Andrew D. Kost, M.S., P.E., M.ASCE, Associate Geotechnical Engineer, Conforth Consultants, Inc.

Technical Program

Monday, November 3, 2025

8:00 – 8:10 a.m.		Announcements, <i>Beacon Ballroom</i>		
8:10 – 9:45 a.m.		Morning Plenary: Seismic Site Response , <i>Regency Beacon Ballroom</i> <i>Session Chairs: Jon Stewart & Youssef Hashash</i>		
9:45 – 10:15 a.m.		Morning Break in Exhibit Hall , <i>Regency Ballroom</i>		
10:15 – 12:00 p.m.		Technical Session 1		
Track A Seaview A	Track B Seaview B	Track C Seaview C	Track D Shorline A	Track E Shorline B
Instrumentation and Remote Sensing of Extreme Events Session Chairs: Melissa Beauregard, Mohammad Amin Nozari	Decision Making, Planning and Risk Management of Extreme Events 1 Session Chair: Derrick Dassenbrock	Liquefaction Session Chairs: Adda Athanasopoulos-Zekkos, Laurie Baise	Geomaterials Session Chair: Mark Wayne	Case Histories of Retaining Structures, Excavations, and Slopes Session Chairs: Jay McKelvey, Beena Ajmera
Assessing Vetiver Grass Impact on Erosion Control and Infiltration of Yazoo Clay Under Simulated Extreme Rainfall Condition: <i>Rahul Biswas, Asef Arnob, Sadik Khan, Richa Pokhrel</i> Continuous Monitoring System for Resilient Railway Infrastructure: <i>AQM Zohuruzzaman, Mahdi Zulfikar, Sadik Khan, Brett Cobb, Abby Cisko, Thomas Beasley, Hugh Thompson, and Ted Sussmann</i> Effects of Frontal Overlap on Checkpoint Errors During UAV Surveying: Corner and Inside Checkpoint Locations: <i>Mohammad Amin Nozari, William Baker, and Christopher L. Meehan</i> Accuracy Evaluation of UAV-Based Orthophoto Mapping in Small, Semi-Planar Areas with Varying Control Point Configurations: <i>Mohammad Amin Nozari, Siamak Yoosefi, Mohammadreza Jebeli, and Christopher L. Meehan</i> Climate-Resilient Coastal Management: A High-Resolution Data-based Approach to Assessing the North Sea Coastal Dune Dynamics of Katwijk, Netherlands: <i>Caroline Apraku, Amber Spears, and Reginald Archer</i> Influence of Pore Fluid Temperature on the Performance of Electrical Conductivity Sensors for Assessing Pore Fluid Salinity Levels: <i>William Baker, Siamak Yoosefi, Mohammadreza Jebeli, and Christopher L. Meehan</i>	Case Studies on Unified Responses to Extreme Events via GHADs Case Studies on Unified Responses to Extreme Events via GHADs (Geological Hazard Abatement Districts): <i>Uri Eliahu</i> Enhancing Power Grid Resilience: The Role of Trenchless Methods in Undergrounding High Voltage Lines: <i>Samuel Brancheau, John Diamond, and Dennis Doherty</i> Geohazards Related to Karst, State of Qatar: Towards the Elaboration of Geohazards/Risks Maps and Guidelines: <i>Jerome Perrin, Bastien Lemaire, Elalim Ahmed, Gildas Noury, Alexandre Ortiz, Thierry Vilnius, Clément Lerevenu, Oliver Higgins, Boris Matti, Richeshkumar Pillai, Salem Al-Yafei, Salmah Samad, and Husam Samman</i> Predictive Detection of Soil Cavities in Embankments Due to Culvert Defects Using Centrifuge Modeling and Image Analysis: <i>Joelle Westcott and April Bowman</i> Deriving Optimal Evacuation Pathways to Reduce Evacuation Time for Underground Geotechnical Structures for Extreme Disaster: <i>Hyunseok Kim, Mintaek Yoo, Yuseong Lee, SeokJung Kim, and Lee Jinsun</i> Leveraging Geo-Fencing and Online Ad Campaigns for Enhanced Risk Communication in Hazard-Prone Areas: <i>Noah Maddox</i>	Probabilistic & Deterministic Approach to Assess Liquefaction Potential at Selected Sites Using SPT Data: <i>Ankit Adwani</i> 1-D Nonlinear Liquefaction Analysis for Newtown, Kolkata by Using Dilatometer Marchetti Test (DMT) Calibrated UBC3D-PLM Soil Model: <i>Kausatv Das, Diego Marchetti, Shiladitya Mandal, Abhipriya Halder, Kaushik Bandyopadhyay</i> Liquefaction Resistance of Silty Sands Affected by Suffusion Under Different Confining Stress Conditions: <i>Taichi Ishimaru, Shogo Sakuraba, Shingo Gotou, and Yoshimichi Tsukamoto</i> Influence of Microplastic Contamination on Sand Liquefaction Initiation and Post-Liquefaction Behavior: <i>Cesar Leal, Luis Salgado, and Wing Shun Kwan</i> Application of Liquefaction Susceptibility Criteria within a Logic Tree Framework: <i>Arda Sahin, Amalesh Jana, Kristin Ulmer, Scott Brandenburg, Matthew Evans, Steven Kramer, Johnathan Stewart, and Armin Stuedlein</i> Evaluation of the Validity of the Booker et al. and the Green, Mitchell and Polito Pore Pressure Generation Models for Use with Large Cyclic Stress Ratios: <i>Carmine Polito</i>	Fracture Angularity Influence on Failure Behavior of Grouted Rocks for Geohazard Mitigation: <i>Matthew Sonibare and Oladoyin Kolawole</i> Shake Table Studies of a Geotechnical Seismic Isolation System Using Lightweight Aggregates: <i>Farzad Naseri, Fariborz Tehrani, and Farmehr Dehkordi</i> Performance Assessment and Numerical Simulation of Geo-Materials in Civil Infrastructure Subjected to Typical Loading Conditions: <i>Sultan Almuaythir, Muhammad Zaini, and Norhaliza Wabab</i> Role of Frequency on the Cyclic Compression Response of Tire-Derived Aggregate: <i>Mayalia Guntle, Axel Yarahuanman, and John McCartney</i> Considerations of Undrained Behavior of Compacted Clay Embankments Under Extreme Wetting- Drying Cycles: <i>Ghada Ellithy</i>	Landslide Identification and Proposed Remediation for Castaic Power Plant South Portal Access Road: <i>Anthony Dombrowski, Jennifer Vanegas, Liping Yan, and Cesar Larios</i> Case Study on Excessive Displacements of MSE Wall and Retained Backfill Due to the Cumulative Effects of Tropical Rainfall: <i>Jose Carlo Eric Santos and Joanne Vizcarra</i> Deep Sewer Replacement in an Urban Area: <i>Issa Oweis and Eric Granholm</i> Methodologies for Effective Slope Failure Reconnaissance: <i>Pavlo Chrysovergis, Stavros Chrysovergis, and Taki Chrysovergis</i> Trump National Golf Club in Rancho Palos Verdes – 25 Years After a 17-Acre Land Slide Destroys the 18th Hole: <i>Richard Sack</i>
12:00 – 1:30 p.m.		Lunch in Exhibit Hall, <i>Regency Ballroom</i>		

Monday, November 3, 2025 (continued)

1:30 – 3:00 p.m.	Afternoon Plenary 1: LA Fires: The New Normal , <i>Beacon Ballroom</i> <i>Session Chairs: Nazli Yesiller & Rossana D'Antonio</i>			
3:00 – 3:30 p.m.	Afternoon Break in Exhibit Hall , <i>Regency Ballroom</i>			
3:30 – 5:00 p.m.	Afternoon Plenary 2: Reconnaissance , <i>Beacon Ballroom</i> <i>Session Chair: Joe Wartman</i>			
3:30 – 5:00 p.m.	Technical Session 2			
Track A Seaview A	Track B Seaview B	Track C Seaview C	Track D Shorline A	Track E Shorline B
Decision Making, Planning and Risk Management of Extreme Events 2 <i>Session Chairs: Turge Baser, Sadik Khan</i>	Coastal Soil Properties <i>Session Chairs: Jack Cadigan, Navid Jafari</i>	Permafrost Engineering <i>Session Chairs: Min Liew, Ming Xiao</i>	Younger Member Session <i>Session Chair: Santiago Martinez-Granata</i>	Emerging Challenges <i>Session Chair: Nazli Yesiller</i>
A Data-Driven Approach to Predicting the Stability of Root-Reinforced Slopes under Extreme Rainfall Conditions: <i>Sukrityranjan Samanta, Alba Yerro, Swostika Dhakal</i> Geospatial Mosaic-Based 3D Ground Model of SPT-Derived Subsurface Stiffness in Seoul, South Korea: <i>Taek-Kyu Chung, Han-Saem Kim, Chang-Guk Sun, and Choong-Ki Chung</i> Development of Tunnel-Specific Depth-Damage Functions for Road Tunnels in Baltimore, MD: <i>Michael Martello</i> Extreme Weather Events and Natural Disasters: <i>Patrick Grover, Madeline Hille, Vincenzo Coia, and Caroline Scheevel</i> Reducing the Extreme in Extreme Events by Knowing What is Possible: <i>Mark Vessely, Scott Anderson, Robert Group, Zac Sala, Madeline Hille, and Alex Brown</i> Exploring the Impact of Extreme Rainfall on Risk and Resilience of Transportation Corridors Paralleling Rivers in Steep Terrain: <i>Derrick Dosenbrock</i>	Determination of Void Ratio Distribution within a Coastal Soil Sample using Laboratory Test Methods and Image Analysis of X-Ray CT Scans: <i>Siamak Yoosefi, William Baker, and Christopher L. Meehan</i> Advanced CFD-DEM Analysis of Coastal Sand Dunes under Wave Attack: <i>Ekansh Agarwal and Ning Luo</i> Assessing Spatial Variations in Dynamic Cone Penetration Across Bays and Horns on a Cuspate Shoreline: <i>Mohamad El Ahmad, Sarah Burghardt, Thomas Mayer, Stephen Adusei, Johnathan Hubler, Nina Stark, and Tian-Jian Hsu</i> Application of Direct Shear Testing to Assess the Influence of Mangrove Root Structures on the Shear Strength of Coastal Wetlands: <i>Mohamed Hassan, Andre Rovai, Hamed Nasiri, Ivan Lopez, Youssef Mousa, Aaron Meyers, Jorge Gomez, Xiaochen Zhao, Daniel Jensen, Annemarie Peacock, Anna Armitage, Jaime Brinkley, Briana Sebastian, Jacob Berkowitz, Marc Simard, Robert Twilley, and Navid Jafari</i>	Coincident Measurements of Soil Strength and Permafrost Active Layer on the North Slope, Alaska: <i>Jack Cadigan, Amanda Barker, Brian Harris, Elaina Bailey, Navid Jafari, and Merritt Turetsky</i> Long-Term Efficacy of High-Modulus Geocells in Rehabilitation of Railway Track Damaged by Extreme Event in Permafrost Region: <i>Arghya Chatterjee, Sanat Pokharel, and Marc Breault</i> On the Potential of Small-Diameter Passive Seismic Arrays for Monitoring Active Layer Thickness and Permafrost Stiffness: <i>Joseph Vantassel</i> Geotechnical Engineering Case Studies in Western Alaska on Warming Permafrost: <i>Jeremiah Holland and Robert Sanders</i> A Review of Gas Blowout Crater Formation in Permafrost Regions: <i>Yu Zhao, Min Liew, and Ann Cook</i>	Building A Neighborhood For the Future At Willets Point, Queens, NY: <i>Eleni Kyriacou and Vijay Veluchamy</i> Comparative Seismic Evaluation of Wharf Structures Subjected to Channel Deepening: <i>Isaac Krietzner</i> Experimental and Numerical Approaches to Evaluate the Behavior of Waste Rock Piles Affected by Environmental Conditions: <i>David Cantor, Gilbert Girmugisha, and Carlos Ovalle</i>	Comparative Analysis of Resilience to Extreme Weather in Vulnerable Communities: <i>Saeed Rokooei, Mohammed Azhar, Reza Khanbilvardi, Farshid Vahedifard</i> Case Histories of Engineered Turf Landfill Cover Under Severe Weather Conditions: <i>Vikram Sahgal, Thomas Orzech, Bryan Scholl, Ming Zhu, and Tate Niekamp</i> Case Studies on Objective Sustainability and Resilience of Lightweight Backfills: <i>Fariborz Tehrani</i> Climate Impacts Analysis of Disaster Debris: Case for F-Gas Emissions from Landfills: <i>Nazli Yesiller, Derek Manheim, and James Hanson</i> A Socio-behavioral Compartmental Model for Wildfire Response: <i>Zihui Ma, Gregory Baecher</i> Wildland-Urban Interface of Critical Infrastructure for Civil Engineers: <i>Todd Hansen</i>

Technical Program

Tuesday, November 4, 2025

8:00 – 8:10 a.m.	Announcements, <i>Beacon Ballroom</i>			
8:10 – 9:45 a.m.	Morning Plenary: Climate Extremes of Water Scarcity and Excess, <i>Beacon Ballroom</i> Session Chairs: Amir AghaKouchak & Farshid Vahedifard			
9:45 – 10:15 a.m.	Morning Break in Exhibit Hall, <i>Regency Ballroom</i>			
10:15 – 12:00 p.m.	Technical Session 3			
Track A Seaview A	Track B Seaview B	Track C Seaview C	Track D Shorline A	Track E Shorline B
Big Data and Data Analytics for Extreme Events Session Chairs: Weibing Gong, Joe Vantassel	Soil Dynamics & Liquefaction Session Chairs: Shideh Dashti, Chukwuebuka C. Nweke	Case Studies Session Chairs: Sean Ahdi, Renmin Pretell	Embankments, Dams, Levees, and Slopes Session Chairs: Jeremy Varner, Ghada Ellithy	Impacts from Weather and Climate Session Chairs: Farshid Vahedifard, Amr Morsy
Integration of Physics-Informed Neural Networks and Transfer Learning for Rainfall-Induced Landslide Forecasting: <i>Shian Cao and Weibing Gong</i> Automating Ground Motion Quality Assessment Using Residual Neural Networks: <i>Ali Namin, Albert Kottke, and Mohsen Zaker Esteghamati</i> A Physics and Reliability-Informed Machine Learning Framework for Landslide Susceptibility Assessment: A Case Study in Niangniangba, Gansu, China: <i>Hong-Zhi Cui, Te Pei, Jia-Xu Jin, and Jian Ji</i> Physics-Informed Machine Learning Framework for Predicting Rainfall-Induced Shallow Landslides in the Colorado Front Range: <i>Te Pei, Marjan Maroufi, Chaopeng Shen, and Yingli Tian</i> Towards Robust and Adaptive Bearing Capacity Prediction for Dry Shallow Foundations Using Physics-Informed Machine Learning: <i>Te Pei, Ekansh Agarwal, and Ning Luo</i> Application of Explainable Theory-Guided Machine Learning-Based Modeling to Rocking Foundations during Earthquake Loading: <i>Sivapalan Gajan and Christopher Kantor</i>	Suction and Hydraulic Conductivity Measurements of Unsaturated Toyoura Sand Using the Membrane Filter Technique: <i>Hailong Wang</i> Experimental Assessment of Efficacy and Environmental Impact of Different Mitigation Measures on Liquefaction-Induced Foundation Movements: <i>Ramin Motamed, Md Kausar Alam, and Reza Mohammadi</i> Using Laboratory Data to Model the Cyclic Strength Transition from Clean Sands to Fines-Dominated Soils: <i>Varun Varun N. S. Renugah, Arda Sahin, Scott J. Brandenburg, and Johnathan P. Stewart</i> Evaluation of Dynamic Soil Properties from Large-Scale Shake Table Experiments: <i>Satish Manandhar, Reza Mohammadi, and Ramin Motamed</i> Probabilistic CPT-Based Models for Regional Liquefaction Manifestation: <i>Jonathan Schmidt, Shideh Dashti, and Cristina Torres-Machi</i> Data-Driven Sensitivity Analyses of Liquefaction Prediction in Undrained Cyclic Direct Simple Shear Tests using PM4Sand: <i>Qinlin Yu and Srikanth Madabhushi</i>	Nonlinear Effective Stress Site Response Analyses of Liquefiable Soils at the Port of Wellington: <i>Wiliam Zakka and Jonathan Bray</i> Preventive, Corrective and Mitigating Geotechnical Measures in Salsipuedes Bay, Ensenada, Baja California, Mexico – A Working Memory: <i>Miguel Gallardo Contreras and Gabriel Morales Carranza</i> Ground Improvement Seismic Design and Verification for a Wind Turbine Project in Mississippi: <i>Thomas Kennedy, George Bowers, and Matthew Dorsey</i> A Regionalized Geospatial Liquefaction Model for California: <i>Laurie Baise, Hooman Shirzadi, Babak Moaveni, and Albert Kottke</i> Pilot Study on Earthquake and Flood Resilient Wrap-Faced Embankment in Bangladesh: Laboratory and Field Insights: <i>Ripon Hore, Mosharof Alim, and Shoma Hore</i>	Effect of Pore Water Salinity on the Residual Strength of Bentonite: <i>Mohammadreza Jebeli, Siamak Yoosefi, and Christopher L. Meehan</i> Quantitative Assessment of Levee Breach Widening and Time-Rate Volume Loss Using Historical Overtopping Events: <i>Stefan Flynn, April Bowman, and Farshid Vahedifard</i> Large Deformation and Critical State Analysis of the Fundão Tailings Dam: <i>Alomir Favero Neto, Gustavo Oliveira, Leandro Rasmussen, and Erick Rógenes</i> Modeling Thermal Slope Failure through a Nonlocal THM Meshless Paradigm: <i>Xiaoyu Song and Hossein Pashazad</i> Seepage Dynamics of Geosynthetic-Reinforced Dikes Under Normal and Extreme Wave Condition in Coastal Louisiana: <i>Abhishek Kumar Tiwari and Jay Wang</i> Probabilistic Analysis of a Landslide under an Extreme Rainfall Considering Spatial Variability of Soil Strength and Hydraulic Parameters: <i>Leila Barinajorian, Sina Javankhoshdel, and Rashid Bashir</i> Stabilization of Storm-caused Landslide with Fast Pressed-in Pipe Pile Wall Installation: <i>Takefumi Takuma and Masafumi Yamaguchi</i>	A Rapid Heatwave Prediction and Delivery System Through Automatic Generation of 3D Urban Models and Automated Execution of Microclimate Simulations: <i>Toshihiro Kameda, Kazuya Honda, Keigo Matsuda, Yuya Kurihara, Moe Someya, Hitoshi Nakase, Toru Sugiyama, and Kazuhiko Igata</i> Quantitative Evaluation Methods of Fly Ash and Cement Concrete Powder CO2 Fixation Reactions: <i>Shun Kawabe, Haruya Suzuki, Sota Murase, Hideo Komine, amd Daichi Ito</i> Harnessing Climate Data for Climate-Resilient Pavement Deterioration Modeling: <i>Mohamed Elshaer, Wei Sun, Meisam Khorshidi, Eshan Dave, and Jo Sias</i> Long-Term Weather-Driven Deterioration of Clay Embankments Under Changing Climate in Los Angeles, California: <i>Amr Morsy and Emma Varela</i> Modeling the Spatial Correlation of Tropical Cyclone Wind Field Residuals: <i>Amireza Mohammadi and Michelle T. Bensi</i> An Experimental Small-Scale Study of Floating Offshore Wind Turbine Systems: Anchor Failure and Scaling Considerations: <i>Brayden Curry and Srikanth Madabhushi</i>
12:00 – 1:30 p.m.	Lunch in Exhibit Hall, <i>Regency Ballroom</i>			

Tuesday, November 4, 2025 (continued)

1:30 – 3:00 p.m.	Afternoon Plenary 1: Wildfire and Adaptation , <i>Beacon Ballroom</i> <i>Session Chairs: Ian Floyd & Idil Akin</i>			
3:00 – 3:30 p.m.	Afternoon Break in Exhibit Hall , <i>Regency Ballroom</i>			
3:30 – 5:00 p.m.	Afternoon Plenary 2: Regional Modeling & Sensing , <i>Beacon Ballroom</i> <i>Session Chair: Dimitrios Zekkos</i>			
3:30 – 5:00 p.m.	Technical Session 4			
Track A Seaview A	Track B Seaview B	Track C Seaview C	Track D Shorline A	Track E Shorline B
Soil Structure Interaction Session Chair: Lisa Star	Pipeline Behavior During Extreme Events Session Chair: Yuderka Trinidad	Soil Properties Session Chair: Stefan Flynn	Coastal Hazards and Mitigation Session Chair: Nina Stark	Frozen Soil Characteristics and Applications Session Chair: Min Liew
Assessment and Design Considerations for Tunnel Linings in Fault Zones Subject to Rubble-Induced Loading Using 2D and 3D Numerical Modeling: <i>Mohammad Moridzadeh</i> Overcoming Stiff Clay Anchoring Challenges through Vibratory Installation with a Deeply Embedded Ring Anchor: <i>Song Qin, Junho Lee, and Charles Aubeny</i> Modeling Suction Bucket Foundations under Cyclic Loading through a Coupled Nonlocal Meshless Paradigm: <i>Xiaoyu Song and Hossein Pashazad</i> Finite Element Modeling of Soil-Foundation-Structure Interaction for Seismic Performance of Nuclear Power Plants: <i>Lei Wang and Skarleth Gutierrez</i> Seismic Vulnerability Assessment of RC Buildings Considering Soil-Structure Interaction Effects: <i>Pranoy Debnath, Hamzah M. B. Al-Hashemi, and Deepankar Choudhury</i> Experimental Behavior of Structurally Different Pile Foundations: <i>William Shaffer, Anne Lemnitzer, and Robie Farrag</i>	Estimation of Permanent Ground Displacement Demand on Pipelines Buried in Organic Soils: <i>Dharma Wijewickreme, Prajakta Jadhav, and Thushara Jayasinghe</i> Mechanical Performance of Rehabilitated Pipelines using Trenchless Technologies under External Loading: <i>Sina G. Senji, Brad Wham, and Shideh Dashti</i> Response of Buried Pipelines Subjected to Abrupt Block Ground Movements: <i>Auchib Reza and Ashutosh Dhar</i> Analytical Method for Assessing Buried Pipeline Performance Under Large Ground Movements: <i>Hailey-Rae Rose and Brad Wham</i>	Effect of Pore Fluid Salinity on Atterberg Limits of Three Types of Clay: Bentonite, Kaolinite, and a Natural Lean Clay: <i>Siamak Yoosefi, Mohammadreza Jebeli, William Baker, and Christopher Meehan</i> Evaluating the Effect of Pore Fluid Salinity on the Volume Change Behavior of Bentonite Clay: <i>Siamak Yoosefi Sigari, Mohammadreza Jebeli, and Christopher Meehan</i> Mechanical and Hydraulic Characteristics of Residual Soils in Indian Himalayas under Repeated Hydraulic Cycles: <i>Eedy Sana, Ashutosh Kumar, and Rousseau Prasanna</i> Enhancing Soil Stability and Wildfire Resilience Using Fungal Mycelium and Agricultural Waste Substrates: <i>Zaid Alajlani</i>	Design and Full-Scale Testing of Sheet Pile Storm Surge Wall: <i>Guoming Lin</i> Spatiotemporal Variability of Beach Sediment Properties Pre- And Post-Hurricanes Debby and Helene at South Ponte Vedra Beach, Florida: <i>Stephen Adusei, Nina Stark, and Noah Evans</i> Integrated Geotechnical and Geophysical Assessments of Erosion Dynamics in a Chenier Plain Shell Beach Following Hurricanes and Seasonal Weather Events: <i>Cyrus Bahman, Hamed Nasiri, Omar Alawneh, Benjamin Fernandez, and Navid Jafari</i> Need, Opportunities, and Challenges of Pre-, During-, and Post-Storm Reconnaissance in Coastal Environments: <i>Nina Stark, Michael Gardner, Michael Grilliot, Britt Raubenheimer, and David Frost</i> Geotechnical Response of Cheniers to Breakwaters and Hurricanes: A case study in Rockefeller Wildlife Refuge: <i>Hamed Nasiri, Omar Alawneh, Navid Jafari, and Mohamed Hassan</i>	Comparative Analysis of Dynamic Modulus and Resilient Modulus Testing for Evaluating Frozen Soil Strength in Military Applications: <i>Andrew Bernier and Wade Lein</i> Estimation of Osmotic Suction in Freezing Soils: <i>Micheal Uduebor, John Daniels, Mohammad Wasif Naqvi, and Bora Cetin</i> Durability Assessment of Biopolymer-Stabilized Slag Tailings Under Freeze-Thaw Cycles: <i>Sahand Motameni, Pouya Alipanahi, Farshad Yazdani, and Lianyang Zhang</i>



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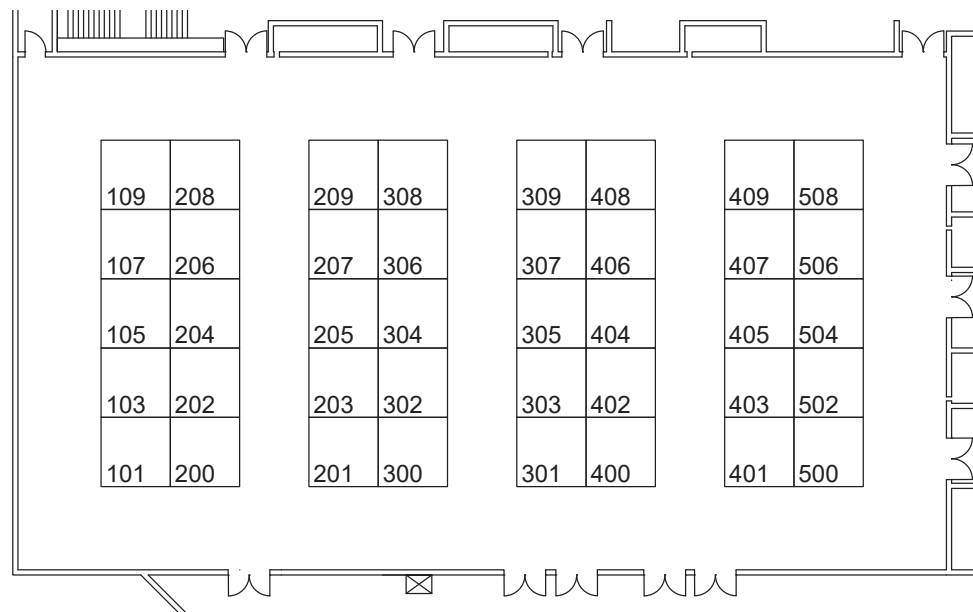
Wednesday, November 5, 2025

8:00 – 8:10 a.m.	Younger Member Technical Session – Winning Presentation, <i>Beacon Ballroom</i>				
8:10 – 9:45 a.m.	Morning Plenary: Mega Landslides, <i>Beacon Ballroom</i> Session Chair: Tim Stark				
9:45 – 10:15 a.m.	Morning Break, <i>Regency Foyer</i>				
10:15 – 12:00 p.m.	Technical Session 5				
Track A Seaview A	Track B Seaview B	Track C Seaview C	Track D Shorline A	Track E Shorline B	
Soil Structure Interaction Session Chair: John McCartney	Numerical Modeling Session Chairs: Patrick Bassal, Jorge Macedo	Ground Motions & Site Response Session Chairs: Neven Matasovic, Scott Brandenburg	Case Histories Involving Extreme Loading Associated with Earthquakes Session Chair: Anne Lemnitzer	Rainfall, Erosion, Geohazards, and Landslides Session Chairs: William Baker, Julie Paprocki	
Freight Loss Analysis in Railway Geotechnical Structure due to Earthquakes Based on OD Matrix Method: Jiyun Jeon, Mintaek Yoo, Hyunmin Song, Jihyeon Kim, Jin-Tae Han, and Byeong-Soo Yoo Investigation of Seismic Stability of Vegetated Slopes through Hydromechanical Characteristics: Pouya Alipanahi, Sahand Motameni, Farshad Yazdani, and Lianyang Zhang Seismic Performance Assessment of Buried Reinforced Concrete Arches Crossing Highways: Mostafa Mohammadzadeh Taleshi, Elnaz Esmaeilzadeh Seylabi, Ian Buckle, and Ertugrul Taciroglu Modeling Challenges and Key Considerations in Seismic Response of Sandwiched Structure–Soil–Structure Systems: Qiuyu Wang, Shahab Zaregarizi, Kirk Ellison, Shaoshun Ben, Marc Tatarsky, and Ian Bruce Characterization of the Cyclic Compressive Interface Interaction between Tire Derived Aggregates and Rocking Shallow Foundations: Dylan Cram, Axel Yarahuan-Chamorro, and John McCartney	Investigating Undrained Behaviour of Partially Saturated Granular Materials Under Cyclic Triaxial Loading Using DEM: Yang Cao, Hoang Bao Khoi Nguyen, Md Mizanur Rahman, and Md Rajibul Karim Modelling Undrained and Drained Triaxial Shearing Behaviour of Realistic Sand Particles Using DEM: Trung-Tri Le, Hoang Bao Khoi Nguyen, Md Mizanur Rahman, and Md Rajibul Karim Modeling path effects due to 3-D Velocity Structure for Non-ergodic Ground Motion Models: A Case Study Using Turkish Ground Motion Data: Chenying Liu, Jorge Macedo, Norman Abrahamson, Maxime Lacour, and Albert Kottke Relationship Between Factors of Safety Against Soil Liquefaction Triggering and Liquefaction Effects on Ground Motions: Renmin Pretell, Scott Brandenburg, Jonathan Stewart, James Gingery, and Zia Zafir Methodology and Validation for Tri-directional 1D Site Response Analysis in LS-DYNA: Salman Rahimi, Kirk Ellison, Pawan Kumar, Rica Chen, and Yizhen Yan	The Impact of Sub-Basins on the Spatial Variability of ground Motion Amplification in the Los Angeles Basin: Rashid Shams and Chukwuebuka Nweke Extrapolation Algorithm for Computing z1.0 From Shallow Measured Velocity Profile: Rashid Shams, Tristan Buckreis, Chukwuebuka Nweke, Scott Brandenburg, and Jonathan Stewart Identification of Site Responsive Features Using Microtremor HVSR: Francisco Javier Ornelas, Christopher de la Torre, Tristan Buckreis, Chukwuebuka Nweke, Scott Brandenburg, and Jonathan Stewart Estimating Systematic Source, Site, and Path Effects in Non-Ergodic Ground Motion Models: Insights from the Turkish Ground Motion Database:Chenying Liu, Jorge Macedo, Norman Abrahamason, and Albert Kottke Sub-regional site response for the San Francisco Bay Area: Shako Mohammed, Rashid Shams, Tristan Buckreis, Chukwuebuka Nweke, Scott Brandenburg, and Jonathan Stewart Regional Datasets Included in the NGA-West3 Ground Motion Database: Shako Mohammed, Rashid Shams, Chukwuebuka Nweke, Scott Brandenburg, Jonathan Stewart, and Tristan Buckreis, Mahdi Bathrapouri, Brendon Bradley, Jyun-Yan Huang, Tadahiro Kishida, Giovanni Lanzano, Meibai Li, Lucia Luzi, Cesar Pajaro Miranda, Paolo Zimmaro, Yousef Bozorgnia, Jennifer Donahue, Jonathan Stewart	Lessons Learned from Site Characterization Efforts During Reconnaissance: 2022 Taitung Earthquakes: Rashid Shams and Chukwuebuka Nweke Performance of Small Diameter Deep Foundations during the March, 11, 2011 Tohoku Earthquake: Daniel Pradel Mitigating Geo-Hazards in Highway Construction: A First-Ever Application of GECs Below Water: Carlos Rodriguez and Vona Ojarvega Validating Liquefaction Case Histories Using Earthquake Simulations: 1933 Long Beach Earthquake: Sajjan KC, Chukwuebuka Nweke Lessons Learned from the 2011 Tohoku Earthquake: Challenges and Innovations in Disability-Inclusive Infrastructure and Preparedness: Mihoka Fukari and Lisa Grant Ludwig Evaluating Site Response Analysis at Liquefiable Sites in the New Madrid Seismic Zone: Challenges and Lessons Learned: Matteo Montesi and Rachel Reardon	Analyzing Wall Failure in Mud-Capped Dredge Pits along the Louisiana Continental Shelf: Omar Alawneh, Navid Jafari, Wenqiang Zhang, and Kehui Xu The Influence of Model Spatial Resolution on Rainfall-Induced Landslide Prediction for a Basin in Utuado, Puerto Rico: Mirna Kassem and Dimitrios Zekkos Assessing the Resiliency of a Highway Slope Built on Highly Plastic Clay Against Extreme Rainfall Events: Fariha Rahman	

Exhibit Floor Plan

REGENCY BALLROOM

Booth #	Exhibitor
101	JD Fields
103	Kubota Corporation
105	Arup Los Angeles
200	Keller
201	Access Limited
202	Geobrigg North America
203	Quire
204	KANE GeoTech, Inc.
205	Solmax
209	Condon-Johnson & Associates, Inc.
300	Williams Form Engineering
301	Malcolm Drilling Company
302	Magnet Geological
303	Texas Department of Transportation
304	Expanded Shale, Clay and Slate Institute
305	ESi
306	Maccaferri
308	Blue Iron Foundations & Shoring, LLC
309	Geobear
400	HUESKER
401	Rocscience
402	Advanced Geosolutions Inc.
403	Aero Aggregates of North America LLC
404	Nucor Skyline
405	CalGeo - The California Geotechnical Engineering Association
407	Geopier
500	Sigicom
502	Gripple Inc
504	Geo-Institute
508	Vertek CPT



Booth #201

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At Access Limited, we specialize in delivering cutting-edge technologies and services designed to mitigate and manage geohazards effectively. Our commitment to excellence has positioned us as a leading provider of geohazard solutions, addressing unique challenges and ensuring the safety and stability of critical infrastructure. Access Limited's innovation and work ethic are now deployed in the transportation, rail, commercial, power, mining, water infrastructure, and pipeline markets.

Booth #402

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Booth #403

Aero Aggregates of North America LLC

www.aerofga.com

Aero Aggregates of North America is a manufacturer of Foamed Glass Aggregate (FGA) - An Ultra-Lightweight fill material made from recycled glass that is durable, sustainable, insulating and free draining, with a low unit weight (<15 pcf) and a high friction angle. Common applications include embankment fill, retaining wall or embankment backfill, and fill over or around utilities or structures. FGA can also be used to facilitate emergency or accelerated construction schedules.

Booth #105

Arup Los Angeles

www.arup.com/en-us

We guide, plan and design the future of the built environment. We are a global consultancy with advisory and technical expertise across more than 130 disciplines.

Booth #308

Blue Iron Foundations & Shoring, LLC

www.blueironllc.com

Blue Iron Foundations & Shoring, LLC, founded in 2010, ranks among the leading providers of temporary and permanent sheet piling, beam and lagging, foundation piling, shoring, excavation, and drilling activities in the US construction market. The Company focuses its operations primarily on the West Coast (California, Washington, Oregon) and the Gulf Coast (Florida, Texas, Louisiana).

Booth #405

CalGeo - The California Geotechnical Engineering Association

www.calgeo.org

CalGeo is the leading association dedicated to advancing geotechnical professionals and related businesses in California. We foster industry excellence through collaboration, education, professional development, and student engagement while actively addressing the business and public policy issues that impact our profession.

Booth #209

Condon-Johnson & Associates, Inc.

www.condon-johnson.com

Condon-Johnson & Associates is an innovative geotechnical construction contractor that is recognized for designing and building complex foundation systems for commercial, heavy civil and industrial projects throughout the Western United States. Our district offices are strategically located in Oakland, Los Angeles, San Diego, Seattle, and Portland, allowing our geotechnical experts to work closely with local public agencies and private industry to solve challenging design-build projects.

Booth #305

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www.engsys.com

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Booth #304

Expanded Shale, Clay and Slate Institute

www.escsi.org

The international trade association for manufacturers of rotary kiln-produced expanded shale, clay and slate lightweight aggregate.

Booth #101

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Booth #504

Geo-Institute

www.geoinstitute.org

The GI booth is the heartbeat of the exhibit space – be sure to stop by to experience some of what we have to offer, including board certification by the Academy of Geo-Professionals.

Booth #309

Geobear

www.geobear.us

Ground improvement specialists using geopolymer resin to stabilize sinking floors, cracked walls, and other problems.

Booth #202

Geobrugg North America

www.geobrugg.com

Geobrugg manufactures protection systems for natural hazards including rockfall, landslides, debris flows, avalanches, and coastal erosion. Our solutions are also used in high-risk environments like tunnels, mines, and racetracks, where safety is nonnegotiable.

Booth #407

Geopier

www.geopier.com

At Geopier, our goal is to customize a design-build engineering solution that meets your ground improvement project pricing and schedule objectives. We work with you to develop a cost-efficient design that allows for higher design bearing pressures, greater settlement control, and reduced construction schedules. There is no soil type or structure we cannot handle. We're here to support you with proven technology, proven project successes, and greater total value that delivers proven savings.

Booth #502

Gripple Inc

www.gripple.com

Established in 1989, we are the original innovators and manufacturers of wire joining and tensioning devices, as well as anchoring, bracing, and suspension systems that have changed the game for many industries. Within Civil Construction Gripple Supports the maintenance, design, and development of natural and man-made environments by providing; geomembranes, slope stability, and erosion control.

Booth #400

HUESKER

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HUESKER is a global leader in the manufacturing of geosynthetics, agricultural and industrial textiles. Our solutions cover a wide range of areas including Earthworks and Foundations, Roads and Pavements, Environmental Engineering, Hydraulic Engineering, Industry and Agriculture.

Booth #204

KANE GeoTech, Inc.

www.kanageotech.com

KANE GeoTech, Inc. is a geotechnical and civil engineering consulting firm based in Stockton, California, specializing in the evaluation, design, and mitigation of geologic and geotechnical hazards. Since its founding, KANE GeoTech has provided expert engineering and consulting services for projects throughout the United States, supporting infrastructure, transportation, energy, and environmental construction.

Booth #200

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Keller is the world's largest geotechnical specialist contractor; we prepare ground for construction and excel in tackling geotechnical challenges across the globe.

Booth #103

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Booth #306

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Booth #302

Magnet Geological

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Magnet Geological provides intrinsic land evaluations and consulting for global real estate, including geological exploration and consulting for oil and gas, carbon saline sequestration, floodplain analysis and critical mineral / rare earth element assessments. Through geochemical testing of water and surface sediments, this approach enhances investment valuation by identifying both opportunities and risks beyond traditional real estate valuations.

Booth #301

Malcolm Drilling Company

www.malcolmdrilling.com

Malcolm Drilling is a renowned geotechnical and foundation contractor that has been serving the construction industry since 1962. Malcolm specializes in providing innovative solutions for complex and challenging ground engineering projects across the US.

Booth #404

Nucor Skyline

www.nucorskylines.com

Nucor is North America's largest and most sustainable steel producer. For more than 50 years we have pioneered the use of circular electric arc furnace (EAF) steelmaking. Every year we recycle more than 20 million tons of scrap into new steel that is being used to build the green economy. Nucor is leading our industry in decarbonization. We are committed to decreasing our carbon footprint while continuing to be the largest, most diversified producer of steel in North America.

Booth #203

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Booth #401

Rocscience

www.rocscience.com

Founded in 1996, Rocscience is a world leader in developing 2D and 3D software for civil, mining, and geotechnical engineers. As engineers ourselves, we know the importance of having reliable and easy-to-use software. That's why we constantly develop and refine our programs to make expert solutions that work for you.

Booth #500

Sigicom

www.sigicom.com

We offer high-quality and innovative measurement systems for vibration, noise and geotech that can handle tough environments. The products are often used in connection with piling, blasting, excavation and other construction or infrastructure projects.

Our head office is in Älvsjö, just south of Stockholm, and this is where most of us work. We also have offices in France, UK, Denmark, the Netherlands, Canada and the USA and are in close contact with our colleagues there.

Booth #205

Solmax

www.solmax.com/us/en

Solmax specializes in providing solutions for civil and environmental infrastructure projects, focusing on sustainability and improving the resilience of infrastructure. Solmax's products include geosynthetics that separate, contain, filter, drain, and reinforce various applications.

Booth #303

Texas Department of Transportation

www.txdot.gov

Headquartered in Austin, the Texas Department of Transportation (TxDOT) is organized by administration, districts and divisions.

Booth #508

Vertek CPT

www.vertekcpt.com

Vertek CPT is the world leader in the development and manufacturing of advances in-situ soil testing equipment, specializing in CPT cones, data acquisition systems and push platforms such as trucks, tracked rigs and modular S4 systems. We are an AS 9100 certified manufacturer offering the industry's best free technical support and training.

Booth #300

Williams Form Engineering

www.williamsform.com

With eight locations throughout the US and Canada, Williams is well positioned to service the North American market and beyond. We put a strong emphasis on our outstanding customer service, and take pride in our ability to adapt and accommodate our customers. The majority of our high-quality products are designed and manufactured in the United States and are always offered at competitive market pricing. Williams' product lines are supported by Williams' Engineering Department; engineered shop drawings, calculations, installation and testing equipment, and on-site Technical Assistance is available upon request.

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Assumption of Risk

All ASCE/GI events and activities are purely voluntary activities, and attendees are fully responsible for their own conduct and well-being, including, and without limitation, determining their level of fitness to take part in any such event or activity. In participating in any event or activity, attendees shall be deemed to understand and accept all risk of possible physical injury that might occur as a result of such participation. Children under the age of 18 are not allowed in the exhibit hall. ASCE/GI hopes that your visit to Geo-Extreme 2025 will be free from illness or injury, but in case you or a family member needs medical attention during your time at the event, contact the front desk or your hotel.

Badge Policy

Your name badge is your admission to the conference. Please wear your badge at all times while in the Hyatt Regency Long Beach. We do suggest removing it upon exiting the building.

Diversity and Inclusion

The ASCE/GI policy of Diversity and Inclusion fosters a culture that encourages the free expression and exchange of engineering ideas by all members, regardless of gender, race, ethnic origin, religion, age, marital status, sexual orientation, disabilities, or any other reason not related to scientific or technical merit.

Health & Safety

ASCE strongly encourages you to be fully vaccinated against COVID-19, wear masks if desired or immunocompromised, and take safety precautions to protect yourself and fellow attendees.

Any attendee who is experiencing COVID-19 symptoms or any concerns they have been infected may not attend in-person activities, but instead should isolate in accordance with CDC protocols. ASCE will continue to monitor the CDC COVID-19 Community Levels and adjust protocols as necessary.

COVID-19 Attendance Policy

Please be aware that an inherent risk of exposure to COVID-19 exists anywhere other people are present. Any person who chooses to travel to and/or participate in this conference:

- acknowledges that they are aware of the inherent risk of exposure to the COVID-19 virus while attending the conference;
- recognizes that COVID-19 is a highly contagious disease that can lead to severe illness and death;
- assumes all risks arising from their decision to attend, including but not limited to infection from other vaccinated or unvaccinated participants, hotel staff, hotel guests, or other persons; and waives liability against ASCE, its officers, directors, employees, agenda, contacts and volunteers for any loss, damages, or suffering related to exposure to COVID-19.

By virtue of their attendance, all attendees agree to comply with all safety procedures established by ASCE as well as any other protocols put in place by the host sites, travel facilities, or any other applicable authorities.

Meeting Room Overcrowding

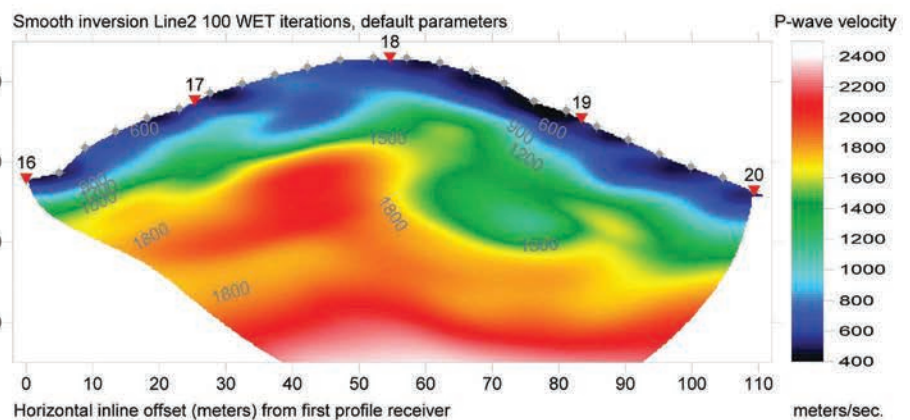
ASCE/GI will make every effort to schedule popular events in rooms large enough to accommodate anticipated attendance. Since many events are extremely popular, it is wise to select alternative events as you plan your conference schedule. ASCE/GI and the Hyatt Regency Long Beach are REQUIRED to follow local fire regulations and may ask participants in rooms filled to capacity to choose another event.

No Smoking Policy

Smoking is not allowed at any ASCE/GI event

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rayfract.com
info@rayfract.com

INTELLIGENT
RESOURCES INC.

304-975 Chilco Street
Vancouver BC V6G 2R5, Canada

T. 604-782-9845
F. 604-408-8678

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