

AEG 2026 TECHNICAL PROGRAM SCHEDULE

MONDAY, SEPTEMBER 14 – VIRTUAL DAY ONE

Hello fellow AEG'ers! Join us for AEG's Virtual Day for a great opportunity to hear presentations on a variety of topics from a group of highly respected experts from the U.S. and overseas. The Virtual Day is an excellent chance to participate in the annual meeting and interact with leading experts.

Moderator: Marty Goff

Time	Speaker	Title
10:00-10:30	AEG Executive Council	Welcome
10:30-11:00	Abdkahar, Aisyah	Applied Petrography of Pozzolan Materials: Linking Raw Geology to Reactivity and Microstructure
11:00-11:30	Sorsby, Skyler	Going with the Flow: Water-Balance Methods for Mountain-Block vs. Mountain-Front Recharge in a Desert Aquifer System
11:30-12:00	Laboso, Roselyne	Applying Machine Learning to Hydrographs to Identify Different Types of Hydraulic Stresses in a Coastal Groundwater System
12:00-12:30		BREAK FOR LUNCH
12:30-1:00	Mattioli, Brian	How Concrete Failures are Diagnosed: Interpreting Visual Clues with Petrography
1:00-1:30	Stokowski, Steven	ASR in Interstate 40 Concrete After 8 Years of Service
1:30-2:00	Bates, Cassie	The Story of the Oyster and the Mud: A Cautionary Tale for Engineers
2:00-2:30	Shanker, Daya	Beyond the Tremor: How Human Actions Turn Earthquakes into Disasters
2:30-3:00	Hakouk, Ahmad	Earthquake-Induced Slope Failures by the 2023 Earthquake in Turkey and Syria
3:00-3:30	Favero Neto, Alomir H.	Advances in Numerical Modeling of Volcanic Caldera Collapse
3:30-4:00	Mills, Gareth	Regulatory Liquefaction Hazard Zone Mapping in the Sacramento Area, Northern California
4:00-4:30	Sharma, Vinod	Glacial Lake Outburst Floods (GLOFs): A Cryospheric Threat to Dam Safety in the Himalaya
4:30-5:00	Torres, Alejandro	PR-172 Landslide, Caguas, Puerto Rico: Failed Repair, Colluvial Hollow Discovery, and Successful Stabilization

WEDNESDAY, SEPTEMBER 16 – MORNING OPENING SESSION

Sponsored by TVA

Moderator: AEG President Paul Weaver

Room: Kincaid Ballroom C & D

Time	Speaker
8:00-8:05	Welcome: AEG President Paul Weaver and Meeting Co-Chairs Scott Walker and Hawkins Gagnon
8:05-8:10	AEG Volunteer Recognition Award (Paul Weaver) <i>Dr. Visty Dalal</i>
8:10-8:40	AEG Foundation Awards: Matt Buche
8:40-8:50	IAEG President Dr. Vassillis Marinos
8:50-9:00	Tennessee State Geologist Will Jackson
9:00-9:30	Keynote Speaker: Chattanooga: Significance of Geology During the American Civil War– Dr. Stephen Henderson
9:30-9:35	AEG Advocacy Award (Paul Weaver) <i>Jessica Scanlan</i>
9:35-10:00	Keynote Speaker: Earning Attention and Trust for Geoscience - Jessica Scanlan
10:00-10:20	Morning Break in the Exhibit Hall
10:20-10:45	AEG Outstanding Environmental & Engineering Geologic Project Award: Chickamauga Lock Replacement Project, Chattanooga, TN - Kristen Smith, Tennessee Valley Authority
10:45-11:15	2025/2026 AEG/GSA Richard H. Jahns Distinguished Lecturer: Dr. Christopher Stohr
11:15-11:45	2026/2027 AEG/GSA Richard H. Jahns Distinguished Lecturer: Dr. Wendy Zhou
11:45-12:00	The Geology You See Out the Hotel Window and How it has Influenced Infrastructure Around Chattanooga: Matt Huebner and Scott Walker

WEDNESDAY, SEPTEMBER 16 – AFTERNOON

Technical Session #1: Workforce Development and Support Committee Symposium - Better Practices for a Better Profession

In AEG's Workforce Development Symposium, we will hear from speakers who are interested in sharing their experiences and best practices in pursuit of bettering the geosciences as a profession. The session will cover the development of a geoscientist, from when they are proto-geoscientists in grade school to when they are fully fledged geo-professionals responsible for leading business meetings. During the first time slot, 2:00 p.m.–2:40 p.m., attendees will be invited to preview and give feedback on AEG's Field Safety Guidance document, developed by an ad-hoc committee of AEG volunteers. The final time slot, 4:20 p.m.–5:00 p.m., will feature a panel discussion by all speakers.

Convener: Anna Saindon

Room: River Room

Time	Speaker	Title
2:00–2:20	Sarah Sheridan	Between Rock and a Hard Place: Navigating Workplace Confrontation
2:20–3:00	Sarah Kalika	An Overview of AEG's Field Safety Guidance Document
3:00–3:20		Break
3:20–3:40	Mariam Sani	Earth Sciences and Engineering in K-12 Education
3:40–4:00	Moe, Minda	Onwards and Upwards: Improving Engagement through Mentorship
4:00–4:20	Chris Stohr	Better Meeting, Better Outcome
4:20–5:00		Discussion

Technical Session #2: Tunneling Symposium

Conveners: Paul Headland, Ike Isaacson, and Mike Piepenburg

Room: Kincaid Ballroom C

Time	Speaker	Title
2:00–2:40	Nick Strater	Keynote: Engineering Geology and Risk Identification for Trenchless Projects
2:40–3:00	Sackett, Dave	Challenging Geological Characterization of a Complex Debris Avalanche Deposit in Acajutla, El Salvador for Microtunnel Design and Construction
3:00–3:20		Break
3:20–3:40	Caneday, Andrew	A Case Study on the Inspection and Maintenance of the Moon Pass Tunnels
3:40–4:00	Raymer, Jack	Pre-Excavation Grouting and Testing at the Gowdy Park Shaft, Columbus, Ohio
4:00–4:20	Bedell, Adam	What are You Grouting and Can You Bid It Fairly
4:20–4:40	Brandon, Steve	Lake Tap Methods for Hydropower and Water Resource Facilities
4:40–5:00	Marinos, Vassilis P.	Shaping Modern Tunneling: The Continuing Evolution of Engineering Geology

Technical Session #3: Geologic Hazards

From landslides and fault systems to migrating mud springs, geologic hazards can have significant impacts on infrastructure, communities, and public safety. This session features three case studies examining slope instability in the I-40 Pigeon River Gorge, seismic potential associated with the Fluorspar Area Fault Complex, and the hydrologically driven movement of the Niland Mud Spring. Together, these presentations highlight the importance of understanding active geologic processes to improve hazard assessment, emergency response, and infrastructure resilience.

Sponsored by Maccaferri

Moderator: Luke Ducey

Room: Kincaid Ballroom D

Time	Speaker	Title
2:00–2:20	Magallon, Sara	When the Mountain Moves: Geologic Hazard, Emergency Response, and Corridor Resilience Along the I-40 Pigeon River Gorge
2:20–2:40	Gray, Brian	The Fluorspar Area Fault Complex – An Overlooked Seismic Source in the Upper Mississippi Embayment
2:40–3:00	Hibbs, Barry	A Hydrologically Driven Model for the Migration of the Niland Moving Mud Spring, Salton Sea Region, California

Technical Session #4: Geohazards and Environmental Impacts in Mining

Moderator: Chelsea Sachs

Room: Kincaid Ballroom D

Time	Speaker	Title
3:20–3:40	McDonald, Michael	Effects of Acid Producing Material on Surface and Subsurface Projects
3:40–4:00	Pierce, Arden	Assessing Mine Tailings Impoundment Stability Using Sentinel-1-Derived Soil Moisture and InSAR Ground Displacement Measurements
4:00–4:20	Knott, David	Understanding Coal and Clay Mine Maps

4:20–4:40	Stokowski, Steven J.,	Classification of Rock Units for Construction Aggregate Mining
4:40–5:00		Discussion

THURSDAY, SEPTEMBER 17 – MORNING

Technical Session #5: Identification, Characterization, and Evaluation of Geologic and Seismic Hazards Symposium Part I

Parts I and II of this exciting, fun, information-filled symposium, organized and convened by AEG's Geologic and Seismic Hazards Technical Working Group (GASH TWG), includes 16 invited speakers. Most speakers focus on identification, characterization, and evaluation of features that could potentially result in geologic and seismic hazards for the areas in which their investigations were conducted. For speakers who discuss investigations conducted in areas where the features are known to be geologically ancient and likely stable, the characterization methods applied illustrate how data were collected to satisfactorily evaluate the features. The keynote presentation for the Part I morning session addresses Pleistocene faulting in the East Tennessee Seismic Zone (ETSZ). That seismic zone is closest to Chattanooga and is the second most active seismic zone east of the Rocky Mountains after the New Madrid Seismic Zone (NMSZ) in the central Mississippi River Valley region. Other topics in Part I include discussions of distributed seismicity in Guatemala, a GIS platform for hazard assessment, passive seismic methods for characterizing subsurface features, karst investigations in Florida using resistivity and in Missouri using a deep detection learning model based on 1-m Lidar DEMs, debris flow risks and lessons learned in Peru, and seismic performance and vulnerability assessment of schools and hospitals in Oman. The keynote presentation for the Part II afternoon session addresses frontiers in Mississippi Valley earthquake research that includes discussion of the NMSZ and other Quaternary faults identified in the region that could result in geologic and seismic hazards affecting western Tennessee and beyond. Other topics for Part II include discussions of electric resistivity tomography to investigate Quaternary fault kinematics along the Eastern Reelfoot Rift margin in the broader NMSZ, seismic refraction and multichannel analysis of surface waves to investigate subsurface geology in the Georgia piedmont, monitoring underground coal fires in Colorado using unmanned aerial systems, rock slope design in Ohio, evaluation of a flash flood monitoring system in Cummings Falls State Park in Tennessee, and reassessing the origin of the Pine Mountain terrane in west-central Georgia. The symposium provides attendees with the unique opportunity to learn about a variety of investigations showcasing methods for identifying, characterizing, and evaluating geologic and seismic hazards in multiple geographic locations and different geologic settings. The morning and afternoon sessions will each conclude with a panel discussion to allow more time for questions from attendees and comments from speakers. Your enthusiastic symposium convenors, B. Doyle and G. Stirewalt, believe this opportunity to hear the presentations and exchange ideas with the expert geoscientists who performed the investigations is simply too good to miss! FUN AND FANTASTIC THOUGHT-PROVOKING PRESENTATIONS ARE GUARANTEED!

Sponsored by Geosyntec

Conveners: Gerry Stirewalt and Briget Doyle

Room: Kincaid Ballroom C

Time	Speaker	Title
8:00–8:40	Cox, Randel Tom	Keynote: Interpretation of Late Pleistocene Faulting in the Eastern Tennessee Seismic Zone
8:40–9:00	Clark, Grant	Distributed Seismicity Along the Eastern Polochic–Motagua Fault System, Guatemala: Implications for Seismic Hazard
9:00–9:20	Wilson, James	To Communicate and Explore – How a GIS Web Application Can Enrich the Site Suitability and Permitting Process for All Stakeholders
9:20–9:40	Bouali, El Hachemi	Delineation and Mapping of Fault at the Base of Frenchman Mountain, Las Vegas using HVSr Passive Seismology
9:40–10:00	Doll, William E.	Application of the H/V Passive Seismic Method to Supplement Geophysical Assessments of Seismic Hazards
10:00–10:20		Break
10:20–10:40	Harro, David	High-Resolution Imaging of Karst-Related Land Subsidence Using the Multi-Electrode Resistivity Implant Technique (MERIT)
10:40–11:00	Pope, Isaac E.	A Deep Learning Approach to Automated Sinkhole Detection and the Controlling Fault Lineaments in Missouri, USA (Presented by Grant Clark)
11:00–11:20	Santi, Paul	Debris Flow Risks from Uncontrolled Development in Peru and Lessons that can be Applied to the U.S.
11:20–11:40	El-Hussain Issa	Seismic Performance and Vulnerability Assessment of School and Hospital Buildings in Sur City, Oman: A Site-Specific Probabilistic Approach
11:40–12:00		Panel Discussion

Technical Session #6: Dams and Levees Symposium Part I

The Dams & Levees Symposium is a professional forum that brings together engineers, scientists, researchers, regulators, owners, and industry experts to share knowledge and advance the practice of dam and levee engineering. The symposium features technical papers and presentations covering all aspects of planning, design, construction, operation, maintenance, inspection, rehabilitation, risk assessment, safety, emergency preparedness, environmental considerations, and emerging technologies related to dams and levees. Presenters represent a broad range of organizations, including local, state, and federal agencies, as well as private consulting firms, contractors, utilities, and academic institutions. Through technical sessions, case studies, and discussions of innovative practices, the symposium provides valuable opportunities for professional development, collaboration, and the exchange of ideas aimed at improving the safety, resilience, and performance of critical water infrastructure.

Sponsored by *RJH Consultants, Inc*

Conveners: Visty Dalal and Holly Nichols

Room: Kincaid Ballroom D

Time	Speaker	Title
8:00-8:40	Mackie, William D.	Keynote: Excavation Considerations in Complex Fault-Fold Geology for Lock Monolith Foundations at Chickamauga Dam, Chattanooga, TN
8:40-9:00	Dalal, Visty	Introduction & Activities of IAEG's Dams & Levees Commission
9:00-9:20	Gee, Nathaniel	50 Years after Teton: Lessons Still to be Learned
9:20-9:40	Gomez, David	Emerging Exploration Technology Gets Deep: Measuring Subsurface Variations Using Transient Electromagnetic Methods with A Backpack Mounted Loupe System
9:40-10:00	Greene, Brian	The Breaching of Lower Lake Girard Dam, Girard Ohio
10:00-10:20		Break
10:20-10:40	Huebner, Matthew	Updates to the Dam Safety Risk Program at the Tennessee Valley Authority
10:40-11:00	Mitani, Yukari	Geological Challenges and Engineering Measures for Dams Constructed in Areas Underlain by Pyroclastic-Flow Deposit
11:00-11:20	Pattermann, Kenneth	New Enlarged Spillway and Seepage Berm at Schafer Dam
11:20-11:40	Elson, Mark	Installation and Verification Testing of Drilled Shafts for the Kentucky Lock Addition Megaproject
11:40-12:00	Westcott, Joelle	Integrating Geophysical Monitoring with Centrifuge Modeling to Study Internal Erosion in Earthen Infrastructure

Technical Session #7: Land Subsidence Symposium Part I

Land subsidence is a widespread geologic hazard driven by diverse natural and anthropogenic processes, with significant implications for infrastructure, water resources, and coastal resilience. With increasing urbanization, growing groundwater demand, and climate change intensifying subsidence-related risks, there is a need for interdisciplinary collaboration and discussion to address subsidence challenges in a changing world. The AEG Subsidence Working Group convenes AEG's eighth, and sixth annual, Symposium on Land Subsidence which explores the diverse causes, impacts, and monitoring of land subsidence. This session will offer presentations describing subsidence from numerous causes, such as the extraction of underground fluids (groundwater, brine, or hydrocarbons), collapse of underground openings (karst), tectonics, and others. The session includes case studies, monitoring techniques, modeling approaches, mitigation strategies, and interdisciplinary perspectives on understanding and managing land subsidence at the local to global scale.

Convener: James Borchers

Room: River Room

Time	Speaker	Title
8:00–8:40	Ellis, John	Keynote: What the Ground Remembers: 100 Years of Subsidence in California's Central Valley
8:40–9:00	Saberi, Leila	A Window into the Subsurface: What Short Records Reveal—and Miss—About Subsidence
9:00–9:20	Nichols, Holly	California Aqueduct Subsidence Program
9:20–9:40	Buche, Matt	Water Infrastructure Performance Monitoring: A Multipoint Extensometer Pilot Installation for Characterizing Subsidence Affecting the California Aqueduct
9:40–10:00	Zhai, Zongyu	An Integrated Framework for Evaluating Subsidence in Coupled Fluid Withdrawal and Injection Systems
10:00-10:20		Break
10:20–10:40	Lewandowski, Alexander	ASF Resources for InSAR-Based Land Subsidence Monitoring
10:40–11:00	Panda, Bibhuti	Application of InSAR (Interferometric Synthetic Aperture Radar) in Geotechnical Engineering
11:00–11:20	Karanam, Vamshi	Basin-Scale InSAR Monitoring of Infrastructure Failure and Chronic Land Subsidence Hazards in the Central Basin Platform, Texas
11:20–11:40	Chen, Ann	Coastal Subsidence Mapping over Densely Vegetated Terrain from Satellite Imaging Radar Measurements

11:40–12:00 Yarbrough, Lance Mapping Mining-Induced Subsidence Using InSAR near the Waste Isolation Pilot Plant, New Mexico

THURSDAY, SEPTEMBER 17 – AFTERNOON

Technical Session #8: Identification, Characterization, and Evaluation of Geologic and Seismic Hazards Symposium Part II

Conveners: Gerry Stirewalt and Briget Doyle

Room: Kincaid Ballroom C

Time	Speaker	Title
1:40–2:20	Van Arsdale, Roy	Keynote: Frontiers in Mississippi Valley Earthquake Research
2:20–2:40	Mitra, Ipsita	Investigation of Late Quaternary Fault Kinematics Along the Eastern Reelfoot Rift Margin Using Electric Resistivity Tomography (ERT)
2:40–3:00	Terza, Devin	Practical P- and S-Wave Velocity Correlations for Piedmont Site Characterization Using MASW and Refraction
3:00–3:20		Break
3:20–3:40	Hiatt, Jessie	Optical, Thermal, and Multispectral UAS Applications for Monitoring Underground Coal Fires in Western Colorado
3:40–4:00	Painter, P. Paul	Twenty years of ODOT Rock Slope Design Guidance
4:00–4:20	Hart, Evan	Analysis and Evaluation of a Flash Flood Monitoring System, Cummins Falls State Park, Tennessee
4:20–4:40	Huebner, Matthew	Reassessing the Allochthonous Origin of the Pine Mountain Terrane: Evidence from the Northeastern Extent of the Window
4:40–5:00		Panel Discussion

Technical Session #9: Dams and Levees Symposium Part II

Conveners: Visty Dalal and Holly Nichols

Room: Kincaid Ballroom D

Time	Speaker	Title
1:40–2:40	Walker, Scott	Keynote: The 1960s: Turbulent Times on the Tennessee River (Geology Edition)
2:40–3:00	Bolles, Nate	Focus on the Foundation: Integrating Multiple Lines of Evidence in Dam Foundation Characterization
3:00–3:20		Break
3:20–3:40	Bown, Todd	Ten Dams, One Scalable Instrumentation Pilot
3:40–4:00	Brueckman, Christina	Using GIS Application for Geologic Mapping at Chimney Hollow Reservoir
4:00–4:20	Ortega Avila, Edison	Red Bluff Dam Foundation Grouting - Treatment of Foundation Rock
4:20–4:40	Plazek, Adam	Assessment of Internal Erosion Vulnerabilities in Embankment Dams Founded on Karstic Terrain
4:40–5:00	Pertunen, Brett	New Lock at the Soo Rock Foundation Preparation and its Challenges

Technical Session #10: Land Subsidence Symposium Part II

Convener: Danielle Smilovsky

Room: River Room

Time	Speaker	Title
1:40–2:20	Rucker, Michael	Keynote: Lessons Learned after a Quarter Century of Subsidence-Driven Dam Safety Engineering
2:20–2:40	Pannalal, Shanmugam	Experience with Monitoring Programs for Flood Control Dam Safety in Areas Affected by Land Subsidence
2:40–3:00	Greuter, Ashley	Quantifying Losses due to Flooding from Projected Subsidence in the Spring Creek Watershed, Southeast Texas, USA
3:00–3:20		Break
3:20–3:40	Khan, Shuhab	Satellite-Based Monitoring and Forecasting of Ground Deformation in Coastal, Tectonic, and Infrastructure Environments
3:40–4:00	Harro, David	The Deployment of Monitoring of Deep Karst-Related Land Subsidence Using Time Domain Reflectometry-Based Subsurface Sensors
4:00–4:20	Korth, Ryan	Geophysical Investigation of Evaporite Karst Conditions in Eddy County, New Mexico
4:20–4:40	Ratcliff, Nick	Not Quite Shawshank, Investigating Sinkholes at a Prison
4:40–5:00	Behnia, Danial	Groundwater Regime Effects on Excavation-Induced Subsidence: Insights from a Deep Urban Excavation in Scarborough, Toronto

RIDAY, SEPTEMBER 18 – MORNING

Technical Session #11: Landslides

This technical session includes papers on a variety of landslide and slope stability topics including case studies, asset management, and emerging technologies.

Sponsored by Maccaferri

Moderator: James Arthurs

Room: Kincaid Ballroom C

Time	Speaker	Title
8:00–8:20	Guido, Lauren	From Lidar to Landscape: Linking Reach-Scale Sediment Sources to Regional Postfire Debris-Flow Hazards
8:20–8:40	Russo, Nicholas	Comparing Landslide Mitigation Basis of Design Assumptions with Field Conditions Observed During Construction
8:40–9:00	Monasterio, Tony	No Silver Bullet: A Comparative Evaluation of Modern Landslide Monitoring Methods Focusing on Site-Specific Applicability, and How AI is Changing the Game
9:00–9:20	Hossain, Azad	Landslide Hazards in Chattanooga–Hamilton County Region, Tennessee
9:20–9:40	Freitag, George	Vantage Horizon – Problematic Chameleon Layer Around Portland, Oregon
9:40–10:00	Hale, Paul	SR3077 A25 Beaver Grade Road Emergency Landslide Repair
10:00–10:20		Break
10:20–10:40	Navarrete, Luis	Carving a Cliff: A New Biomed Campus
10:40–11:00	Bauer, Jennifer	Coming Soon
11:00–11:20	Beckstrand, Darren	Estimating Risk in a Transportation-Focused Geohazard Management Program
11:20–11:40	Williams, Gage	Adapting Geohazard Risk Management to District Priorities: Case Studies from Eastern Kentucky
11:40–12:00	Nandi, Arpita	Field Implementation of Time Domain Reflectometry for Subsurface Deformation Monitoring of Highway Slopes in Tennessee

Technical Session #12: Environmental Geology Applications: From Hazard to Healing in Urban and Natural Landscapes

Diagnostic and remedial approaches to evaluating hazards, cleaning up contamination, and using technology to better understand our environment. Session presentations encompass three general themes: The Modern Subsurface: Landfills, Leachate, and Leaks (Landfill covers & leachate management, technical evaluations, and UST case studies), When the Earth Acts Up: Navigating Human Health Hazards (evaluation and solutions after mining operations and natural disasters), and Understanding Natural Processes (Landsat imagery application to better understand our rivers and infrastructure).

Sponsored by Ischebeck Titan

Moderators: Sarah Kalika and Matt Howe

Room: Kincaid Ballroom D

Time	Speaker	Title
8:00–8:40	Stohr, Chris	Interpretation of Thermal IR, Orthophotography, and LiDAR Imagery for Identifying Defects on Legacy Landfill Covers
8:40–9:00	Kalika, Sarah	Naturally Occurring Asbestos in the Eastern United States - America's Forgotten Problem
9:00–9:20	Mori, Keigo	Effectiveness of Microbiome Analysis for Environmental Impact Assessment of Groundwater and Surface Water Affected by Waste-Derived Leachate
9:20–9:40	Cange, Max	Post-Hurricane Site Characterization and PCB Soil Remedy Design at a Former Scrapyard, NC
9:40–10:00	Taiwo, Grace	Groundwater and Wastewater Systems: Preventing Cross-Contamination
10:00–10:20		Break
10:20–10:40	Smyth, Joan	PFAS in Landfill Leachate and Wastewater Discharges, or Diet Coke and Illusion of Progress
10:40–11:00	Sherrill, Anna	Developing Models for Estimating Chlorophyll-a Concentration in the Tennessee River using Landsat Imagery: An Empirical and Machine Learning Approach
11:00–11:20	Brouman, Mitchell	Addressing the Various Audiences at the LA County Wildfire Clean-Up Response Using Real-Time Environmental Monitoring
11:20–11:40	Howe, Matt	UST Case Studies in Georgia: Investigation, Corrective Action, and Closure
11:40–12:00	Smith, Matthew	Investigating the Seasonal Variation of Turbidity in the Tennessee River Using Landsat Satellite Imagery

Technical Session #13: Tools for Geologic Investigation

Moderator: James Kore-Quayre

Room: River Room

8:00–8:20	Bowling, Roy	Defense Against the Dark Arts: Practical Considerations for Understanding and Protecting yourself from Near-Surface Geophysicists
8:20–8:40	Johnson, Erinn	gINT Support is Ending, what's next? A Discussion on Transitioning from gINT
8:40–9:00	Lucidi, Roberto	Managing Complex Geotechnical Investigations in Remote Sites – An Example from the Salt River Pumped Storage Project
9:00–9:20	Wu, Sara	The Geothermal Source and Hydrogeology of Thermal Springs on the South Fork San Joaquin River, Sierra Nevada, California
9:20–9:40	Jayroe, Samuel	Application of Multiscale Satellite Imagery for Mapping Land Use/Land Cover in Chile to Better Understand the Habitat of Octodon Degus
9:40–10:00	Ducey, Luke	Advancing Subsurface Characterization: Integrating CPT with Traditional SPT Investigations in US Practice

Technical Session #14: Geomorphology/Karst

Moderator: Chip Barnett

Room: River Room

10:20–10:40	Chip Barnett	Geomorphic Evaluations for 2 Creeks for Fish Passage Improvements in Western Washington
10:40–11:00	Louie, John	Rapid Surface-Wave Detection and Characterization of Conduits, Tunnels, and Voids
11:00–11:20	Brock-Hon, Amy	Geophysical Evidence for the Formation of Large Depressions atop the Cumberland Plateau, TN
11:20–11:40	Henn, Kenneth	Karstic Considerations during Investigation, Design, Construction, Operation, and Maintenance of Large Civil Works
11:40–12:00	Winslow, Noah	Karst Mitigation Surrounding Open Pit Aggregate Mine: Lessons Learned from Sudden Sinkhole Development

FRIDAY, SEPTEMBER 18 – AFTERNOON

Technical Session #15: Dams and Levees Symposium Part III

Conveners: Visty Dalal and Holly Nichols

Room: Kincaid Ballroom C

Time	Speaker	Title
1:00–1:20	Foulke, Montana	Field Observations to Performance Monitoring: A Risk-Informed Approach
1:20–1:40	Saucier, Christopher	Demystifying Hydraulic Fracture Analyses for Drilling at Embankment Dams
1:40–2:00	Bheemasetti, Tejo	3D Model of Dams Integrating Directional Scale of Fluctuation and Probabilistic Concepts
2:00–2:20	Gardella, Kami	Using 3D Geologic Modeling to Evaluate and Characterize Concrete Dam Foundations
2:20–2:40	Abramson Ward, Hans	A Quaternary Geologic Map to Characterize Site Conditions, Thermalito Dam Complex, California

Technical Session #16: AI/Machine Learning

Artificial intelligence and machine learning are no longer distant concepts for geologists; they are beginning to change how geoscientists map hazards, manage field data, analyze geospatial information, develop technical recommendations, and communicate project decisions. This session will highlight practical, real-world applications of AI and ML in applied geology, including GeoAI-based mapping of sinkholes and debris-flow tracks, AI-assisted field data ingestion, emerging machine learning and large language model tools for geospatial analysis, AI-supported landslide remediation workflows, and a foundation grouting case study. Together, these presentations show how AI can support better workflows and clearer technical products, while keeping the geologist's judgment, validation, and accountability at the center of practice.

Moderator: Nate Saraceno

Room: Kincaid Ballroom D

Time	Speaker	Title
1:00–1:20	Walker, Bill	A Practical Application of AI for a Geologist who only took a Semester of FORTRAN in College
1:20–1:40	Saraceno, Nate	AI as a Project Co-Pilot: From First Call to Red Team Review in Landslide Remediation
1:40–2:00	Hardham, Simon	Rethinking Field Data Entry: AI Ingestion and Tabular Workflows in Geotechnical Practice
2:00–2:20	Fisher, James	Application of GeoAI for Automated Mapping of Sinkholes and Debris Flow Tracks – Case Study from the Shenandoah Valley and Blue Ridge Mountains of Virginia
2:20–2:40	Oommen, Thomas	Advances in Machine Learning, Deep Learning, and Large Language Models for Geospatial Applications

Technical Session #17: Global Environmental Impacts

Technological innovations enable modern-day geoscientists in their endeavors to understand ongoing changes in Earth's dynamic near-surface processes. To this end, the 21st century has seen the proliferation of remote sensing systems that enable high spatial and temporal resolution of Earth's changing environments and landscapes. These observations, when combined with other geospatial technologies and field investigations, provide insights that inform decisions and strategies for sustainable society. This session features case studies that incorporate the use of satellite-based data across a broad range of environmental challenges.

Moderator: Paco Gomez

Room: River Room

Time	Speaker	Title
1:00–1:20	Gomez, Francisco	Kinematics and Subsurface Structure of Rock Glaciers on Mt. Mestas, Colorado: Implications for Loss of Alpine Permafrost
1:20–1:40	Williams, Adam	Integrating Multi-Source Satellite Data and a VI-LST Model to Estimate Soil Moisture and Improve Drought Prediction in Central Chile
1:40–2:00	Nix, Rebecca	Monitoring Chlorophyll-a and Coastal Carbon Dynamics Using PACE Imagery in Coastal Water
2:00-2:20	Alsobrooks, Caspar	Exploring the Relationship Between UHI and Algal Blooms in the Tennessee River Using Remote Sensing and Machine Learning Models
2:20-2:40	Langley, Hazel	Cataloging Periglacial Mass Movement in the Brooks Range, Alaska