## Monday, March 21

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<th>Track A</th>
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<tr>
<td>2:30 p.m.</td>
<td>Technical Session 1</td>
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### Risk Informed Decisions in Geotechnical Engineering
- **Moderator:** Jonathan Marzolf
- **Speakers:**
  - Enhanced Landfill Methane Oxidation using Activated Biochar, Krishna Reddy
  - Predicting Hydraulic Conductivity of Geosynthetic Clay Liners Using a Neural Network Algorithm, Jannan Shanmugam
  - Advancing the State-of-the-Art in Bentonite Barrier Research: Measuring Membrane Behavior and Diffusion at Elevated Temperatures, Hagen Sample
- **Topics:**
  - Influence of Electromechanical Remediation on the Hydraulic and Mechanical Behavior of Inorganic-Contaminated Clayey Soil, Tory N città
  - Integrity of HDF Geonet Liner Systems During and After PFSF Flocculation and Stabilization, Jules Lingle
  - Comparison of Gas Emissions from Conventional and Alternative Landfill Final Covers: Modeling Estimates, James Green

### Earth Retaining Structures
- **Moderator:** Sarah Kechichian & Joel Delahaye
- **Speakers:**
  - 2D and 3D Numerical Modeling of a Cellular Deep Soil Mixing Earth Retaining Structure, Leen Cortes-Garcia
  - Soil-Structure Interaction on Embankments: A Case Study, Fadi Younis
  - Factors Affecting the Stability and Behavior of an MSE Wall: A Numerical Approach, Ahad Almazi
- **Topics:**
  - Remediation of Agap Drained and Vibrated Pipe Linings in Unconsolidated Silty Sand, Alan Robison
  - Flexural Strength of Micropile Threaded Connections, Sebastian Monsky-Yargas

### Deep Foundations
- **Moderator:** Sarah Kechichian & Joel Delahaye
- **Speakers:**
  - Estimation of Optimal Spacing between CPT Soundings, Vedanta Abhishek
  - A Case History in Foundation Design on Very Soft Soil When Sampling is Impossible, Brett Lingwall
  - Estimation of In-Situ Stresses for Siting and Core Correlation Residuals using CPT Correlations, Christian Armstrong
  - Analytical CPTU Solutions Applied to Boston Blue Clay, Ugur Uzguen
  - Influence of Local Size Opening on the Collapsing of Distorted Particles to the Physical Properties of Bentonite, Jian Chu, Fenghui Xia, and Nima Jamshidi
  - Experimental Study of Thin Soil Layers Utilizing the qPDFM-RFM Algorithm on Core Bearing Measurements, Gerald Verbeek

### Sensors and Monitoring
- **Moderator:** Ethan Cargill & Kevin Foye
- **Speakers:**
  - Surface-induced Stress Focusing (SSF) – A Potential New Method for Temporary Soil Stabilization along beaches and Coastal Waterways, Raphael Crowley
  - Thermal Properties of Bio-Cemented Sand, Pipa Dymaly
  - Hybrid Ground Improvement Solution in Deep Compressible Glacial Lake Clay, Hyeok Jang
  - Electromagnetic Dewatering and Consolidation – Oxi Scan Tour Overview, Jie Huang
  - Soil improvement by Re-Orienting Magneto-Particles Using a Magnetic Field, Xinya Jiang
  - Settlement and Bearing Capacity of Stone Columns Foundation, Dylan Safa

### Geotechnical Program Gateways to a World of Opportunities
- **Moderator:** Mohammad Khorasani & Jie Huang

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## Tuesday, March 22

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<td>11:30 a.m.</td>
<td>Technical Session 2</td>
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### Characterization and Modeling of Mine Tailings: from Risk Assessment to Early Warning
- **Moderator:** Lizan Gilbert & Nathaniel Wagner
- **Speakers:**
  - Numerical Investigation of Hydric Variability Effects on the Seismic Hyperbolicity of a Dam Site, Jeremy Teets
  - Numerical Simulation of Full-Scale Embankments, Felipe Uribe-Henao
  - Performance of Stand-alone Embankments on Curaçao, Ewout van der Voet
  - Performance of Stand-alone Embankments on Curaçao, Ewout van der Voet

### Underground Engineering
- **Moderator:** Shahid Hashmi & Brett Eisele
- **Speakers:**
  - Numerical Simulation of Full-Scale Embankments, Felipe Uribe-Henao
  - Performance of Stand-alone Embankments on Curaçao, Ewout van der Voet
  - Performance of Stand-alone Embankments on Curaçao, Ewout van der Voet

### Monitoring and Remote Sensing
- **Moderator:** Zhangwei Ning & Joseph Cui
- **Speakers:**
  - Soil Moisture Monitoring: Geotechnical Instrumentation System Design for the Cabin Creek Regional Water Supply Reservoir Project, Corey Schaefer
  - Bio-inspired Vibrational Transmitters for Wireless Underground Communication, Vi Zhang
  - Geotechnical Effects on Fiber Optic Distributed Acoustic Sensing Performance, Meghan Cameron
  - Soil Density Evaluation Using Solid-State Lidar, Travis Streeter
  - Advanced Monitoring of the Surficial Site Using Structure from Motion Computer Vision: A Case Study of the Brigham Young University 3D Campus Model, Kevin Frank

### Innovative Materials and Geosynthetics
- **Moderator:** TBD
- **Speakers:**
  - Innovative Materials and Geosynthetics: A Case Study of the Brigham Young University 3D Campus Model, Kevin Frank
  - Soil Moisture Monitoring: Geotechnical Instrumentation System Design for the Cabin Creek Regional Water Supply Reservoir Project, Corey Schaefer
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<th>Time</th>
<th>Technical Session 3</th>
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| **Tuesday, March 22 (continued)** |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| **Speakers yet to be announced** | **Speakers yet to be announced** | Geotechnical Engineering Lab Course Virtual Instruction Methods: A Response to Covid-19, A. Lynnae (Luettich) Stypulkowski | Recent developments on bio-mediated soil improvement methods, Mary Rosh | Recall Questions for Soil Compression: Potential Learning Gains for Students and Instructors, Marina Pontadosso | State of the Field: Changing Geotechnical Faculty Demographics and Recognition, Cameron Comberad | Assessing In-Person Versus Remote Learning Gains: An Endeavor to Extend the Engineering Education Environment, Victoria Barnett | A Virtual Board Game: Monosoil, Onur Pekcan | Predicting Embankment Behavior using the Bounding Surface and Modified Cam Clay Models, Tommy Bounds | Exploring Geophysical Methods to Identify and Mitigate Karstic Features at Robinson Lake Dam, Zachary Michel | A Phenomenological Breakage Model for Crushable Sand, Mohamed Salem | DEM Analysis of the Interplay Between Soil Density and Earthquake Surface Fault Rupture in Layered Soils, Fernando Carneiro | Temperature Effects on the Diffused Double Layer Thickness Using Molecular Dynamics, Shaheen Ali | Deep Reinforcement Learning for Controlling the Groundwater in Slopes, Aynaz Biniyaz | Revisiting the Liquid Limit Determinations using Casagrande Percussion Cup Method vs. Fall Cone Device, Farooq Niazi | Mechanical-Based Properties of Mine Tailings for Static Liquefaction, Jorge Macedo |