

4:30 - 4:50

4:50 - 5:00

5:00 - 5:30

6:00 - 8:30

8:30 - 8:45

Special Talk (Jason DeJong), Pima Auditorium, Room 230

Closing Remarks (Susan Burns), Pima Auditorium, Room 230

Please follow the volunteers with the red scarves to the buses that will take us to our ICBBG Banquet at
Rustler's Rooste - Parking Lot 3 in front of Gammage Auditorium

Rustler's Rooste, Cowboy Barbeque

Busses leave Rustler's Rooste to return to ASU

International Conference on Bio-mediated and Bio-inspired Geotechnics

Sunday, May 18, 2025 - HMLK Building 5:00pm-7:00pm Welcome Reception Sponsored by Freeport-McMoRan Inc., 3rd Floor Atrium Monday, May 19, 2025 - Morning Sessions - Memorial Union Day 1 7:00 - 7:45 Breakfast Buffet - Arizona Ballroom, Room 221 7:15 - 7:45 Registration Open - Arizona Ballroom lobby 7:00 - 8:00 Exhibitor set up - Arizona Ballroom 7:45 - 8:00 Opening Remarks (Ed Kavazanjian, Jr.) - Pima Auditorium, Room, 230 8:00 - 8:40 Keynote 1 (Jian Chu) - Pima Auditorium, Room 230 Track D: Pima Auditorium, Room 230 Track A: Alumni Lounge, Room 202 Track B: Cochise, Room 228 Track C: Graham, Room 226 Session 1C: Biopolymer Treated Soils - I (updated) Session 1A: Fundamental Research on Biogeotechnics (Experimental Studies) Session 1B: Bio-inspired Subsurface Exploration and Excavation Session 1D: Fungal Treatment of Soils Plant root adaptation to changes in soil stiffness: Tomoya Nagayama; Luc Sibille; Emanuela Yaser Ghafoori; Parisa Samadi; Pooria characterization and future perspectives for the design Del Dottore; Barbara Mazzolai; Gioacchino Stabilization of Dredged Marine Sediment Using Ghadir: Stanislay Lenart: Sabina Dolenec: Physical-Chemical Impacts of a Controlled Carbonate ICBBG2025-104 Phase on Microbially Induced Calcite Precipitation Shaivan H. Shivaprakash; Susan E. Burns ICBBG2025-127 of self-motile robots ICBBG2025-13 Biopolymer Hamed Khodadadi Tirkolaei (Cino) Viggiani ICBBG2025-26 Modification of Soil Properties by Fungal Mycelium Joon Soo Park: Hai Lin Effect of Engineered Fungal Mycelium Growth on Infiltration and Erosion Resistance in Fire-Affected Microbially induced calcite precipitation in fine-grained Yasaman Abdolvand; Mohammadhossein Min Yao; Benhui Fan; Fernando Henry Nakaana; Adesola Habeeb Plant root-inspired penetration experiments in layered ICBBG2025-99 sand profiles Riya Anilkumar; Alejandro Martinez ICBBG2025-158 Soils ICBBG2025-51 soils through mechanical mixing Sadeghiamirshahidi Lopez-Caballero; Jean-Marie Fleureau Adegoke; Emmanuel Salifu ICBBG2025-185 Improvement of soil strength using biopolymers Influence of Curing Stress on Biocemented Sand: Harsha Vardhan Kurugodu; Debayan Shear Modulus Degradation and Design of Treatment MPM Modeling of Self-Penetrating Probe for Soil Bhattacharya; Prashanth Vangla; David Biopolymer-Induced Stabilization of Sandy Soils for **Evaluating Fungal Inoculation for Biogeotechnical** Anish Lamsal; Mohammadhasan Sasar; 8:50 - 10:20 | ICBBG2025-17 ICBBG2025-20 Characterization in Layered Granular Media ICBBG2025-87 Enhanced Erosion Resistance ICBBG2025-115 Slope Stabilisation Alireza Fathollahi; Grainne El Mountassir Piyush Vyas; Chukwuebuka Nweke Sherif L. Abdelaziz Combined Effect of Relative Density and Calcium Adesola Habeeb Adegoke; Yasen Carbonate Content on Drained Triaxial Behaviour of Influence of Fungal Mycelium on Desiccation Cracking Kashour; Saleh Alothman; Claudia Zapata: Evaluation of the Capacity of Deployable Granular Jude Zeitouny; Wolfgang Lieske; Arash Long-term Durability of Biopolymer Treated Recycled ICBBG2025-29 Bio-cemented Sand Lavasan; Torsten Wichtmann ICBBG2025-136 Anchors in Sands Aly Ghanem; Alejandro Martinez ICBBG2025-27 Glass Sand Junjie Li; Kejun Wen ICBBG2025-73 in Expansive Soils Emmanuel Salifu Effect of Spatial Variability on Unconfined Compressive Kipkorir Yano; Mohammadhossein Evaluation of System Compliance Issues in Laboratory Enhancing Soil Stability with Biopolymers and Anish Lamsal; Mohammadhasan Sasar; Unconfined Compression Behaviour of Silty Sand Benedek Nagy; Qi Zhang; Alessandro Strength of MICP-treated Soils Sadeghiamirshahidi ICBBG2025-120 Evaluation of Earthworm-Inspired Robotic Probes Honglai Peng; David Frost; Rodrigo Borela ICBBG2025-109 Vegetation Sherif Abdelaziz ICBBG2025-94 treated with Pleurotus Ostreatus Tarantino; Grainne El Mountassir Alice Lane; Sravan Muguda Viswanath; Emmanuel Salifu; Hamed Khodadadi Preliminary Investigation of the Effects of EICP on Compaction and Unconfined Compression Strength of Saleh Alothman; Edward Kavazanjian; Laboratory Evaluation of Vertical Burrowing Behavior Exploratory research on optimising the synergistic Tirkolaei; Agostino Walter Bruno; ICBBG2025-142 Sandy Soil ICBBG2025-103 of a Bioinspired Robot (BurroBot) Sarina Shahhosseini; Julian Tao ICBBG2025-118 application of fungi biopolymers in soil engineering Claudia Zapata Domenico Gallipoli Please join us in the Arizona Ballroom 10:20 - 10:50 for this morning's break - Sponsored by Groundwater Technology Poster Session, Arizona Ballroom 10:20 - 11:50 11:50- 1:00 Lunch Buffet Sponsored by Schnabel, Arizona Ballroom Monday, May 19, 2025 - Afternoon Sessions - Memorial Union Keynote 2 (Jonathan Knappett), Pima Auditorium, Room 230 1:00 - 1:40 Track C: Graham. Room 226 Track D: Pima Auditorium, Room 230 Track A: Alumni Lounge, Room 202 Track B: Cochise, Room 228 1:50 - 3:20 Session 2A: Fundamental Research on Biogeotechnics (Modeling and Simulations) Session 2B: Bio-inspired Methods for Infrastructure Construction - I **Session 2C: Biopolymer Treated Soils - II Session 2D: Hybrid Session** Shahid Ali Khan; Md Rajibul Karim; Md Integrating MICP with Geothermal Pavements: A Assessment of Xanthan Gum-Based Stabilization of Xiaoying Gu; Alexandra Construction and Demolition Waste for Enhanced Review of critical state theory based constitutive 3D Printing and Lab scale testing of Bio-Inspired Numerical Analysis of Thermal Performance and Mizanur Rahman; Edward Kavazanjian; Clarà Saracho; Nikolas Makasis; Monika ICBBG2025-69 models for bio-cemented granular soils ICBBG2025-139 Geogrids for Road Rutting Reduction ICBBG2025-63 Construction Material Performance Jiaojun Liu; Nimisha Roy; David Frost Beatrice Magombana; Shihui Liu; Lin Li ICBBG2025-102 Cost-Efficiency Kreitmair; Guillermo Narsilio Khoi Nguyen Breach Evolution in Sand-Silt Dams with a Surface MICP for Liquefaction Mitigation: Interpretation of DSS Laura M.C. Luna; Ross W. Boulanger Field investigation of tree-root-like minipile groups in Alberto Escobar; Sanchari Mondal; Mahdi Layer of Xanthan Gum-Treated Soil during Matthew Czapiga; Ezzat Elalfy; Enrica Correlation of Penetration Resistance with Wind Salim Alaufi: Brian Scott: Salifu ICBBG2025-184 tests and Constitutive Model Calibration Katerina Ziotopoulou; Jason DeJong ICBBG2025-116 cohesive soils M Disfani; Guillermo Narsilio ICBBG2025-84 overtopping: Laboratory Experiments ICBBG2025-92 Erosion Resistance for Fugitive Dust Studies Viparelli; M. Hanif Chaudhry Emmanuel; Edward Kavazanjian Yvo Veenis; Eliam Vlijm; Edward Yoon-Ah Kim; Matthew Burrall; Min-Kyung Raymond Chen; Ahmet Mert Kavala; Emily Xanthan Gum Treated Sand as a Mechanism to Kavazanjian Jr.; Leon van Paassen; Measuring and Modelling Kinetics of CO2 hydration Miller; Alexandra Clarà Saracho; Ewa J. From Nature to Engineering: Pull-out Behaviors of Tree Jeon; Alejandro Martinez; Jason DeJong; Improve Resistance to Erosion with Application to Edwin Kotey; Matthew Czapiga; Enrica Caitlyn Hall; Patrick Kwon; Caroline Van Increasing Amsterdam quay wall stability through ICBBG2025-43 Root-inspired Anchors ICBBG2025-128 Breach Development de Steenoven: Gert Jan Weerts ICBBG2025-171 catalysed by Carbonic Anhydrase in Buffered Systems Marek Viparelli; M. Hanif Chaudhry ICBBG2025-150 Bio-Inspired Soil Improvement Tae-Hyuk Kwon Simulation Study on Impact of MICP Treatment Against Ibuki Nishimura; Tomonori Yamada; Investigation of Pullout Resistance of Geogrids with Understanding the variation of thermal conductivity of Avishek Ghosh; Aritra Baneriee: Volker Effect of Using Xanthan Gum on Properties of Kiran Kuikel; Bernardo A. Castellanos; Degradation of Geotextiles Hitoshi Matsubara ICBBG2025-78 Different Topologies Candas Oner; David Frost ICBBG2025-172 Fine-Grained Soils Lucas Walshire ICBBG2025-180 sands with bio-cementation and desaturation Brozel; Emmanuel Salifu; Jasaswee Das Sravan Muguda Viswanath; S Smitha; Emmanuel Salifu: Hamed Khodadadi Effects of Non-uniform Distribution of Calcium A Synopsis of Difficulties and Benefits of Operating a Carbonate in Sand Column by Enzyme Induced Calcite Yuru Chen; Qi Xu; Qiang Tang; Satoru Investigating Physical and Mechanical Properties of Insights into the impact of synergistic fungi-biopolymer Tirkolaei; Agostino Walter Bruno; Local Chapter of the Society of Women Engineers in ICBBG2025-10 Precipitation Using Discrete Element Method ICBBG2025-25 Mud Dauber Nests ICBBG2025-145 Vicksburg, Mississippi after 2021 ICBBG2025-119 stabilization on the shear strength of sand Allison Scates; Katie A. Martin Kawasaki Joon Soo Park; Hai Lin Domenico Gallipoli Durability of biocalcified porous materials exposed to Lorenzo Spadini; Laurent Oxarango; Shweta Mukundan; Bhupendra Chand; Utilizing Extracellular Polymeric Substances (EPS) Rashed Rahman; Rimjhim Sharma; Ishika Shaping High School Students' Educational and Emilie François; Annette Esnault Filet; Shruti Pandey; Tejas G Murthy; Renee M. from Psychrophilic Bacteria for Bio-Mediated Garg; Tejo V. Bheemasetti; Tanvi Govil; Career Paths Through University Engineering Lab solutions of varying aggressiveness: model-based Leslie Sapin: Jean M.F. Martins ICBBG2025-53 Experiences ICBBG2025-181 measurements and short- and long-term issues ICBBG2025-111 Fabric and Structure of Potter Wasp Nests Borges ICBBG2025-155 Frost-Susceptible Soil Stabilization Bret N. Lingwall; Rajesh Sani Leah Folkestad; Jean Larson 3:20 - 3:50 Please join us in the Arizona Ballroom for this afternoon's break - Sponsored by **Groundwater Technology** 3:50 - 4:30 Keynote 3 (Alejandro Martinez), Pima Auditorium, Room 230 4:30 - 5:15 2nd Annual Biogeotechnics Lecture Award, Pima Auditorium, Room 230 Introduction: Jian Chu, Recepient: Leon van Paassen Day One Adjourned 5:15 - 5:20 Tuesday, May 20, 2025 - Morning Sessions - Memorial Union 7:00 - 8:00 Breakfast Buffet - Ventana A, Room 221 Registration Open - Ventana A lobby Exhibitor set up - Ventana A, Room 221 8:00 - 8:40 Keynote 4 (Annette Esnault Filet) - Pima Auditorium, Room 230 Track A: Alumni Lounge, Room 202 Track B: Cochise, Room 228 Track C: Gold, Room 207 Track D: Pima Auditorium, Room 230 8:50 - 10:20 Session 3A: Fundamental Research on Biogeotechnics (Emerging Topics) Session 3B: Bio-inspired methods for infrastructure construction - II **Session 3C: Biopolymer Treated Soils - III Session 3D: Case Studies and Field Applications of Biogeotechnics** Yiwei Fang; Rick Qian; Steven Yang; Design Considerations for Multi-axial Tensile Testing of Damien Crowley; Aaron Sloutski; Marcia Michael S. Carter; Kristen A. Bruce; Scaling up biocement production in the Department of Matthew J. Tuttle; Rhett L. Martineau: Conventional and Next-Generation Geosynthetic Characterization of Time-Dependent Bio-Invasion in Biopolymer produced by Rhizobium Tropici: Chemistry, Simon; Jay Gao; Miriam Rafailovich; Steve ICBBG2025-15 Sandstone Using EICP Mary C. Ngoma; Oladoyin Kolawole ICBBG2025-58 Specimens ICBBG2025-125 Water Retention, and Interactions with Clays ICBBG2025-186 the Air Force Emre Duman: J. David Frost Maneesh K. Gupta Larson; Dilip Gersappe Aaron Sloutski; Justin Burzachiello; Yu-Chung Lin; Steven Slote; Benoit Yvo Veenis; Eliam Vlijm; Agnes van Uitert; Ronald Damen; Leon van Paassen; Interface Shear Directionality between Lacroix; Vitaly Citovsky; Yuefan Deng; MICP via denitrification pathway under aerobic Yasaman Abdolvand; Mohammadhossein Snakeskin-Inspired Surfaces and Normally Impact of Rhizobium Tropici Produced EPS on Marcia Simon; Jay Gao; Miriam Mitigating Train-induced vibration nuisance through Bio Caroline Van de Steenoven; Sjoerd van ICBBG2025-135 Arabidopsis Thaliana Growth ICBBG2025-55 conditions ICBBG2025-100 Consolidated and Compacted Fine-Grained Soils Rafailovich ICBBG2025-146 Inspired Soil Improvement Gaal; Ronny Van der Heijden Sadeghiamirshahidi Hyeon Jung Kim; Alejandro Martinez Avman Mokhtar Nemnem; Puja Mechanical Characterization of Bacteria-Encapsulated Mapping Seepage Flow in Untreated and Chowdhury; Clay Crews; Austin R.J. Biopolymer-Treated Soils Using Wireless Sensing Hydrogels for Enhanced Microbial-Induced Carbonate Mert Kavala; Cambry Stratton; Berkin Discrete Element Modeling Simulations of Interfaces Downey; Jason D. Bakos; M. Sadik Khan; A Study on the Applicability of MICP for Stabilization of ICBBG2025-147 Precipitation (MICP) ICBBG2025-83 Between Snakeskin-Inspired Surfaces and Sand Damon Nguyen; Alejandro Martinez ICBBG2025-140 Spikes for Electrical Conductivity Assessment ICBBG2025-90 Platform Embankment of Angkor Ruins Dortdivanlioglu; Alexandra Clarà Saracho M. Hanif Chaudhry; Jasim Imran Toshiro Hata; Ryota Hashimoto Natascha Kallerhoff; Wolfgang Lieske; Griffin Bodow: Meron Belachew: Karie Investigation of biostimulation feasibility in dumped MICP Delivery via Engineered Living Materials: Emily J. Miller; Gina Partipilo; Benjamin K. Mechanical Stability, Hydromechanical and Decay Wiebke Baille; Angelica M. Palomino; Hanieh Babaeizad; Wiebke Baille; Torsten ICBBG2025-168 Co-Culture of S. pasteurii and S. oneidensis ICBBG2025-178 soils of lignite opencast mines Keitz; Alexandra Clarà Saracho ICBBG2025-80 Quantitative Analysis of Harvester Ant Nest Geometry Yamamoto; Chloe Arson; David Frost ICBBG2025-179 Behavior of Polymer-Modified Fine-Grained Soils Torsten Wichtmann Wichtmann Rafaela Cardoso; Miguel Quintela Cruz; Understanding the role of soil biota in relation to plant Isabel Cristina Gonzalez; Ana Teresa Design and prototyping of root-inspired soft-growing The Effect of Biopolymer Pore Fluids on Soil Properties Shoumik Saha; Sherif Abdelaziz; Dilip Rodrigues; Leslie Sapin; Annette Esnault roots in sustainable geotechnical engineering Alena D. Zhelezova; Gerald I. Otim; Dongoh Seo; Gyeol Han; Jee-Hwan Ryu; Biocementation treatment of a Portuguese motorway ICBBG2025-95 perspective ICBBG2025-169 robot ICBBG2025-123 using Molecular Dynamics Simulations ICBBG2025-130 slope against erosion Gianmario Sorrentino: Irene Rocchi Tae-Hyuk Kwon Gersappe Yvo Veenis; Eliam Vlijm; Agnes van Uitert; Experimental study on the effect of biopolymers on the Edward Kavazanjian Jr.; Leon van Paassen; Caroline Van de Steenoven; Methodology to generate root analogues based on root DEM Investigation of Sediment Densification Effect thermal properties of soil and thermal diffusion analysis Hwijae Lee; Gi-Yun Kim; Jun-Hyeok Yum; Improving Railway embankment stability through Bio ICBBG2025-175 Induced by Mangrove-Inspired Skirt Piles ICBBG2025-41 tensile behaviour Shanshan Li; Hans Henning Stutz Xiwei Li; Julian Tao; Leon van Paassen ICBBG2025-107 using COMSOL Multiphysics Ilhan Chang ICBBG2025-144 Inspired Soil Improvement Paul de Groot 10:20 - 10:50 Please join us in the Ventana (A) Ballroom for this morning's break - Sponsored by **Keller-North America** Track A: Alumni Lounge, Room 202 Track B: Cochise, Room 228 Track C: Gold, Room 207 Session 4C: Bio-Mediated Methods For Infrastructure Construction Session 4A: Bio-mediated Methods for Hazard Mitigation (Erosion and Slope Stability) Session 4B: Bio-Mediated Environmental Protection And Restoration Rhett L. Martineau; Brandon M. Bradow; A Preliminary Study of Growth Response and Copper Ryan Cotter; Emmanuel Salifu; Caitlyn A. Matthew J. Tuttle; Michael S. Carter; Josh ICBBG2025-97 Cross-scale correlations in biocement test samples ICBBG2025-49 Rainfall Erosion of MICP-treated Sandy Slopes Shihui Liu; Kang Du; Lin Li ICBBG2025-91 Tolerance in the Desert Fungus Podaxis pistillaris A. Mancini; Maneesh K. Gupta Biochemical Species Plume Migration under Diverse Soil stabilization via carbonate precipitation by Injection Strategies during Microbially Induced Calcite Pavan Kumar Bhukya; Xuerui Wang; Dali Forming a cemented crust in sloped sand with enzyme Emilia Marmolejo; Noah A. Madrigal; plant-derived urease: comparison between soybeans ICBBG2025-187 Precipitation Treatment in Soils Paola Bandini Naidu Arnepalli ICBBG2025-114 fine powder and crude extract juice ICBBG2025-160 induced carbonate precipitation Elise Lefevre; Alessia Cuccurullo Zalfa Maulida Ihsani; Naoki Kinoshita; Salim Alaufi; Emmanuel Salifu; Edward Influence of Bio-Mediated Slope Cover on Stability of Optimization of EICP Treatment Parameters for Dust Utilization of Recycled Soybean as a Urease Source in Hideaki Yasuhara; Heriansyah Putra; Vibha S; Raghuveer Rao P ICBBG2025-93 Mitigation ICBBG2025-30 Carbonate Precipitation for Soil Improvement ICBBG2025-6 Soil Slopes During Rainfall Kavazanjian Haruma Nishimoto Evaluation of the physical properties of sands with enzyme induced calcite precipitation (EICP), Preliminary Study of the Effect of EICP and X-EICP biopolymer-based soil treatment (BPST), and composite treatment through elastic wave and direct Treatment on Wind Erosion and Penetration Shivangi Jain; Claudia Zapata; Edward ICBBG2025-75 Resistance of a Clayey Sand ICBBG2025-19 shear test Suhyuk Park; Jinwoo Park; Ilhan Chang Kavazanjian 11:50 - 1:00 Lunch break - Please pick up your box lunch in Ventana A There is seating in Alumni Lounge, Ventana A ballroom, and the patios just outside the MU Day 2 Tuesday, May 20, 2025 - Afternoon Sessions - Memorial Union 1:00 - 1:40 Keynote 5 (Anca Delgado), Pima Auditorium, Room 230 Track B: Cochise, Room 228 Track C: Gold, Room 207 Track A: Alumni Lounge, Room 202 1:50 - 3:20 Session 5A: Bio-mediated Methods for Hazard Mitigation (Liquefaction) Session 5C: Bio-Mediated Methods For Infrastructure Construction (updated) **Session 5B: Bio-Mediated Environmental Protection And Restoration** Development of a Treatment Strategy Applicable to Effects of Structure Frequency placed in Bio-cemented Soo-Min Ham; Jose Caisapanta; Daniel W. Field Conditions for the Repair of Vertical Fractures in Gloria Castro-Quintero; Grainne El Enhancing Sandstone Surface Strength in Caves ICBBG2025-183 Sands using Centrifuge Modeling Wilson; Jason DeJong ICBBG2025-7 Through Microbial Filaments with Calcareous Coatings Hitoshi Matsubara ICBBG2025-57 Concrete Using MICP Mountassir; Rebecca Lunn Effects of Biocementation Treatment on Mitigating Liquefaction-Induced Foundation Settlements Using 1g Md Kausar Alam; Ramin Motamed; Ben Investigating Heterotrophic Nitrifying-Aerobic Micaela Robson; Amy Grunden; Brina Jeffrey Evans; Derek Manheim; Nazli Shake Table Test ICBBG2025-61 ICBBG2025-23 Denitrifying Bacteria to Improve MICP Sustainability ICBBG2025-18 Bio-enhanced Soil Bentonite Slurry Trench Cutoff Walls Yessiller Incorporating the Influence of Microbially Induced Effect of clay content in lead-contaminated soils on the Carbonate Precipitation in Nonlinear Site Response Shiqi Liu; Yu Zhang; Haishan Qin; Xiangrui distribution uniformity of biostimulated ureolytic Development of High-Performance Wood (HPW) Piles Hussein Algrinawi; Hai Lin; Qinglin Wu; ICBBG2025-71 bacteria ICBBG2025-81 Analyses Thomas Na; Brina Montoya; Ashly Cabas Xu; Ningjun Jiang ICBBG2025-22 for Deep Foundation Applications Shengli Chen Yvo Veenis; Edward Kavazanjian Jr.; Leon Pegah Ghasemi; Hannah Hiscott; Alden van Paassen; Caitlyn Hall; Patrick Kwon; Sears; Brina Montoya; Celso Castro BISI Flood and Earthquake Hazard Mitigation Fraser Caroline Van de Steenoven; Ronny Van Shaivan Hirebelaguly Shivaprakash; Integration of Plants and Microbially Induced Soil Bolinaga; William Petry; Amy Grunden; ICBBG2025-148 River BC, CND ICBBG2025-105 Microscopic insights into MICP treated fly ash ICBBG2025-40 Stabilization for Sustainable Infrastructure Design Benjamin Breland; Allison Scates der Heijden; Eliam Vlijm Susan Burns Bemah Ibrahim; Md Mizanur Rahman; Md Evaluation of microbially induced desaturation and Katherine M. Currier; Caitlyn A. Hall; Bruce The Challenge of Stabilizing Copper Tailings Using Rajibul Karim; Khoi Nguyen; Edward Effects of microbially induced calcite precipitation Yasaman Abdolvand; Mohammadhossein ICBBG2025-52 (MICP) on the soil-concrete interface behavior ICBBG2025-156 precipitation (MIDP) using semi-batch columns E. Rittmann; Edward Kavazanjian Jr. ICBBG2025-76 EICP: The Role of Inhibitors Sadeghiamirshahidi Kavazanjian A study on the heavy metal remediation and Evaluating injection strategies for a field trial of mechanical properties improvement of contaminated Microbially Induced Desaturation and Precipitation Patrick Kwon; Edward Kavazanjian Jr.; humus soil using EICP method: From Particle-Scale to Yi Bian; Yanbo Chen; Liangtong Zhan; ICBBG2025-86 (MIDP) ICBBG2025-189 Macroscale Yufeng Gao Leon A. van Paassen 3:20 - 3:50 Please join us in the Ventana (A) Ballroom for this afternoon's break - Sponsored by Haley & Aldrich, Inc. 3:50 - 4:30 Keynote 6 (Brina Montoya), Pima Auditorium, Room 230