

14 August 2024	
0800 – 0830	Registration
Ballroom 2	
0830 – 0850	Opening Ceremony
0850 – 0925	<p>Keynote Session 1</p> <p>Field Scale Applications of Enzyme Induced Carbonate Precipitation (EICP)</p> <p>Edward KAVAZANJIAN</p>
0925 – 1000	<p>Keynote Session 2</p> <p>Biogenic construction: System and perspectives</p> <p>Hanlong LIU</p>
1000 – 1035	<p>Keynote Session 3</p> <p>Self-healing of Concrete Based on Microbial Mineralization</p> <p>Chunxiang QIAN</p>
1035 – 1100	Tea Break
1100 – 1125	<p>Invited Speaker 1</p> <p>Enhancing soil resilience to climate change through a bio-approach</p> <p>Chaosheng TANG</p>
1125 – 1150	<p>Invited Speaker 2</p> <p>Stabilizing Byproducts with Microbially Induced Carbonate Precipitation: Challenges and Opportunities</p> <p>Brina MONTOYA</p>
1150 – 1215	<p>Invited Speaker 3</p> <p>Bio-Geotechnics for Geoenvironmental Engineering Applications</p> <p>Ningjun JIANG</p>
1215 – 1315	Lunch

	Ballroom 2	Napier
	Oral Presentation Session 1 Host: Liang CHENG	Oral Presentation Session 2 Host: Hailei KOU
	<p style="text-align: center;">Invited Speaker</p> <p style="text-align: center;">Inorganic Flocculant-Based Soybean Urease Extraction and its Effect on Biomineralization of Soil</p> <p style="text-align: center;">Hanjiang LAI</p>	<p style="text-align: center;">Invited Speaker</p> <p style="text-align: center;">Experimental study on corrosion resistance of granite residual soil strengthened by biostimulation-induced calcium carbonate precipitation</p> <p style="text-align: center;">Shiyu LIU</p>
	<p style="text-align: center;">Invited Speaker</p> <p style="text-align: center;">Development and application of microbial-induced restoration and conservation techniques for cultural relics</p> <p style="text-align: center;">Yang YANG</p>	<p style="text-align: center;">Invited Speaker</p> <p style="text-align: center;">Saturated permeability and water retention capacity in biochar-methanotrophs-clay for new landfill cover system</p> <p style="text-align: center;">Wenjing SUN</p>
	<p style="text-align: center;">Multiple heavy metals immobilization in contaminated water by Enzyme-induced carbonate precipitation method</p> <p style="text-align: center;">Yi BIAN</p>	<p style="text-align: center;">Invited Speaker</p> <p style="text-align: center;">Biochar-vegetation interactions on slope stabilization</p> <p style="text-align: center;">Jun Jun NI</p>
1315 – 1500	<p style="text-align: center;">Investigation on the bioremediation of heavy metal-contaminated solution utilizing the two-step MICP method based on the urea-medium</p> <p style="text-align: center;">Xiaosong HUANG</p>	<p style="text-align: center;">Bio-cementation technique for lateral injection in a test pit: evaluation of treatment uniformity</p> <p style="text-align: center;">Cong-Yu WANG</p>
	<p style="text-align: center;">Synergistic solidification of heavy metal tailings by polyethylene glycol (PEG) and microorganisms</p> <p style="text-align: center;">Bo KANG Shaogeng CHEN</p>	<p style="text-align: center;">4D printing construction of living materials based on microbially-induced carbonate precipitation</p> <p style="text-align: center;">Peng JIN</p>
	<p style="text-align: center;">Large-scale application of microbial induced carbonate technology in the field of tailings solidification</p> <p style="text-align: center;">Chunli ZHENG</p>	<p style="text-align: center;">Experimental study on the dynamic fracture properties of granite exposed to cyclic freeze-thaw treatment and different mixed modes dynamic loading</p> <p style="text-align: center;">Zhihui CUI</p>
	<p style="text-align: center;">Experimental study on the seepage proof and leak plugging of vertical cracks in concrete by microbial grouting</p> <p style="text-align: center;">Qiang JIA</p>	<p style="text-align: center;">Research on Energy Evolution and Strain Localization of Freeze-thawed Sandstone under Uniaxial Loading-unloading</p> <p style="text-align: center;">Hao TAN</p>
	<p style="text-align: center;">Impact of different water-reducing agents on the properties of Limonite Self-compacting conductive concrete</p> <p style="text-align: center;">Zhenhua REN</p>	<p style="text-align: center;">Study on the mechanism of biomass ash in carbonation of magnesium slag and its main mineral phases</p> <p style="text-align: center;">Siyuan BIAN</p>
	<p style="text-align: center;">Assessment of surface treatment systems for protecting concrete structure</p> <p style="text-align: center;">Jin Ping LU</p>	<p style="text-align: center;">Effects of a new synthetic Fe-PAM flocculants on filtration and consolidation of bentonite slurry</p> <p style="text-align: center;">Junqiang SHI</p>

1500 – 1520	Tea Break	
1520 – 1700	Ballroom 2	Napier
	Abstract Session 3 Host: Jianyun WANG	Abstract Session 4 Host: Xiaohua PAN
	Invited Speaker Synergistic solidification of Calcareous sand by Magnesium oxide and microorganisms Hailei KOU	Invited Speaker Optimization of bio-cementation for soil stabilization and erosion control Jia HE
	Invited Speaker Effective heavy metal bioremediation through enhanced biomineralization from microbiological and crystallographic perspectives Liang CHENG	Invited Speaker Enhanced Effect of Ice Nucleation Active Bacteria on the Strength of Warm Permafrost Liyun TANG
	Influence of particle and root bark morphology on the root pull-out behaviour and direct shear behaviour of the root-soil matrix Bei-Bing DAI	Improving erosion resistance of mine tailing dams with EPS-aided biocementation Anant Aishwarya DUBEY
	Cyanobacteria as a Novel Nutrient Source for Biomineralization Thora ARNARDOTTIR Jamie HAYSTEAD	Experimental Study on Microbial-cemented Tailings under Different Calcium Salts Yajie WENG
	Study on the large-scale preparation of auxiliary cementitious materials for CO ₂ fixation of cement kiln tail by microorganism and steel slag Yijin FAN	Mechanical Characterization of Stabilized Dredged Marine Deposits with High Water Content Using Industrial Wastes and Vacuum Preloading Rundong ZHAO
	Mechanical properties and stability of zinc-contaminated red clay cured by MICP synergistically activated MgO Yu SONG	Effect of urease activity on the cohesion of deposited calcium carbonate Rui ZHANG
	Differences in carbon sequestration rates of granular γ -C ₂ S, β -C ₂ S and C ₃ S minerals and their microscopic mechanisms Yangfan XU	The metabolic mechanisms and a novel double-operons gene structure of <i>Sporosarcina pasteurii</i> Junyi SONG
	Alternative Scaffold materials for photosynthetic and ureolytic MICP Robin NEW	Study on the properties and mechanism of sand reinforced by ARTP mutagenized calcified microorganism Xuanshuo ZHANG
1700	End	
1900 – 1930	Dinner Registration	
1930 – 2130	Conference Dinner	

Schedule is based on Singapore Time (GMT +8). Programme is correct at the time of publish and subject to adjustments