

IBS 2026 DRAFT Programme 02/09/2026													
Monday 28/9				Tuesday 29/9				Wednesday 30/9					
Registration & Coffee				Coffee				Coffee					
Welcome				Keynote				Keynote					
Invited Speaker				Unlocking Rare Earth Elements with Phosphate-Solubilising Microbes				Bioleaching and scaling up : challenges and tools					
Biohydrometallurgy Through Time: People, Processes and Future Frontiers				Elizabeth Watkin (ECU) IBS26.0052 When Microbes Team Up: Synergistic Drivers of Rare Earth Element Bioleaching from Monazite Julian Dietrich (Edith Cowan University) IBS26.0012 Assessing the influence of e-waste composition diversity over Leptosirillum ferriphilum iron-oxidizing activity Catherine Joulian (BRGM) IBS26.0116 A Preliminary Investigation into the Bioleaching of Deep-Sea Fe/Mn Nodules by Deep-Sea Sediment Enrichment Cultures under Simulated Deep-Sea Conditions Ruiyong Zhang (CAS (CN)) IBS26.0033 Sustainable recovery of critical raw materials from spent lithium-ion batteries through bioleaching with halotolerant bacteria Eric van Hullebusch (IPGP)				Anne-Gwénaëlle Guezennec (BRGM) IBS26.0208 Operational transition from simplified matrices to real PCBs in a continuous pilot-scale copper bioleaching system under aluminium accumulation Isolda Tristany Tarrés (UPC) IBS26.0099 Advancing Continuous Bioleaching of Pyrrhotite-Rich Mine Tailings: Pilot-Scale Evaluation of Two Sudbury Legacy Tailings Using the CanmetMINING Process Emmanuel Ngoma (MIRARCO) IBS26.0014 Cobalt extraction from pyrite concentrates through bioleaching: developing by-product valorisation strategies at the mine design stage Douglas Pino Herrera (BRGM) IBS26.0122 Design and Performance of Iron Biooxidation Systems for In-Situ Bioleaching Applications Sabrina Hedrich (TU Bergakademie Freiberg)					
Startup pitches													
Coffee				Coffee				Coffee					
IBS26.0096 Dynamic heat balance modelling of industrial bioleaching plant: influence of both environment and operating conditions and heat management improvement Céline Loubière (CNRS)				IBS26.0138 Towards sustainable copper supply from WEEE: Configuration of a two-stage bioleaching system for PCB treatment Musa Maluleke (UCT)				IBS26.0101 Development of protein resins for REE separation using high-throughput screening Shawn Laursen (NLR (US))				IBS26.0119 Enhancement of chalcopyrite bioleaching with Acidithiobacillus ferrooxidans using a non-ionic organic surfactant Roosbeh Saneie (UBC)	
IBS26.0137 Heat Management and Thermophile Transition in Chalcopyrite Heap Bioleaching Jochen Petersen (UCT)				IBS26.0027 E-waste bioleaching in a bioreactor: Experimental and numerical studies of particles suspensions Marc-Antoine Besch (CNRS)				IBS26.0038 Bioleaching of Rare Earth Elements from a Hyper Enriched Black Shale: Effects of Microbes, Temperature and Energy Source Melika Mostafavi (CSIRO)				IBS26.0150 Fine-tuning strain design and growth conditions for improved efficiency for biomining in Acidithiobacillus ferridurans JAG5 Annesha Sengupta (U. Toronto)	
IBS26.0158 Numerical design of a pond bioleaching reactor Anne-Gwénaëlle Guezennec (BRGM)				IBS26.0093 Sustainable recovery of copper and gold from waste Printed Circuit Boards by biogenic ferric iron and thiosulphate Zahra Ilkhani (Lancaster University)				IBS26.0034 Circular Extraction of Rare Earth Elements via Bioleaching and Phage Display-Based Purification Matthew Duffield Healy (Coventry University)				IBS26.0047 Effect of microbial activity on leaching performance and precipitate sorption property Chinazor Oraegbunam (CPUT)	
IBS26.0098 Driving Early-Stage Heat Generation in Copper Sulfide Heaps Catherine Edward (Mintek)				IBS26.0146 Synergistic Bioleaching of Copper and Zinc from Baal Gammon Mine Wastes: Linking Taxonomic Shifts to Leaching Kinetics and Metal Recovery Eric O. Ansah (University of Queensland)				IBS26.0072 Decoupling the effects of ore, novel catalyst and temperature in bioleaching. Implications for microbial resilience and oxidant capacity. Monse Rebolledo (Jetti Resources)				IBS26.0159 Managing Iron Precipitation Behaviour in Ferrous Iron Bio-Oxidation Processes and Its Implications for Bioleaching Performance Babatunde Oladipo (CPUT)	
IBS26.0097 Carbon dioxide availability and its correlation with oxygen uptake in column bioleaching of a carbonate-poor copper sulfide ore Archippe Manzila (Mintek)				IBS26.0064 Mitigating iron inhibition in the accelerated bioleaching of South African coal waste through targeted high-iron harvesting cycles for ferrous sulphate heptahydrate production Msimelelo Gcayiya (U. Queensland)				IBS26.0094 Harnessing Lanmodulin Proteins for REE Separation Dan Park (LLNL)				IBS26.0134 Incorporation of (K+, NH4+) cations into jarosites phases in conditions similar to those of bioleaching processes Chloé Capdevielle (U. de Toulouse)	
IBS26.0084 A Ferroplasma-dominated heap bioleaching for copper sulfide ore: industrial practice and mechanism analysis Yan Jia (CAS (CN))				IBS26.0133 Efficiency of assisted phytostabilization with white lupin (Lupinus albus L.) Gaëlle Saladin (Université de Limoges)				IBS26.0077 Induction and Characterization of Extracellular Polysaccharides in Sulfolobus acidophilus. Mario Vera Véliz (PUC Chile)				IBS26.0145 Biorecovery of Critical Metals through Protein-mediated Affinity Separations Sue Harrison (University of Queensland)	
Lunch & Posters [12:30 - 14:30]				Lunch & Posters [12:30 - 14:30]				Lunch & Posters [12:30 - 14:30]					
Keynote				IBS26.0068 Integrated bioleaching and resource recovery from sulphidic tailings for critical metals and iron mineral production Jana Pinka (G.E.O.S.)				Keynote				Testing, design and implementation of the BIOX process at the Sabodala-Massawa Gold mine	
Progress in the understanding of dissolution and leaching reactions Frank Crundwell (CM Solutions)				IBS26.0065 Bioleaching of mine tailings fractions for metal extraction and purification in the project ReTail Axel Schippers (BGR)				IBS26.0130 Remediation of mine-impacted water with high chloride concentration using a sulfate-reducing consortium in a continuous bioreactor and a bioelectrochemical system Ivan Nancucheo (U. San Sebastián)				Jan van Niekirk (METSO-BIOX)	
IBS26.0131 Geomicrobiology of the deep subsurface of the Iberian Pyrite Belt: Biohydrometallurgical implications Ricardo Amils (UAM)				IBS26.0029 Bioleaching of Gold from Cyanide Heap Leach Tailings with Iodide-Oxidising Microorganisms Anna Henriikka Kaksonen (CSIRO)				IBS26.0111 U(VI) Immobilization by Sulfolobus thermosulfidoxidans under Aerobic Conditions Yi Yang (RMIT University)				Round Table	
IBS26.0128 Facing the challenge of variability of minerals in bioleaching operations Cecilia Demergasso (UCN (CL))				IBS26.0126 Circular Biohydrometallurgy: Moderate-Thermophilic Bioleaching of Co-Ni from Chilean Copper Tailings Pilar Parada (Universidad Andrés Bello)				IBS26.0069 Development of biobased adsorbents to remove arsenic and selenium from sulfate-rich wastewaters Gijis Du Laing (Ghent University)					
IBS26.0081 High-rate iron oxidation by Leptosirillum ferriphilum and psychrotolerant Acidithiobacillus ferrovarans for bioleaching Daniel Kupka (Slovak Academy of Sciences)				IBS26.0154 Bioleaching of Critical Metals from Low-Grade Tailings: Tiina Heikola (VTT)				IBS26.0147 Reducing Alkali Consumption in the Dewatering of Mine Ana Hernandez Millán (U. Seville)					
IBS26.0011 Adaptation and performance of the BRGM-KCC bioleaching consortium under extremely low pH conditions Douglas Pino Herrera (BRGM)				IBS26.0151 Pilot scale operation for nickel bioleaching from Katherine Picott (University of Toronto)				IBS26.0082 Turning Acid Mine Drainage into Pigments through Zuzana Bartova (Slovak Academy of Sci.)					
Coffee				Coffee				Coffee					
IBS26.0043 Cooperative Effects of Stress Tolerance Among Species of Acidophilic Bioleaching Bacteria Gloria Levicán (U. Santiago de Chile)				IBS26.0036 Enhancement of Copper recovery from mine tailings through Electro-bioleaching with Native Acidophilic Consortia Aishvarya Venkateshtharaman (CSIR)				IBS2030 Pitches & Voting					
IBS26.0125 Fluoride Toxicity and its Mitigation in Acidophilic Bioleaching Microorganisms M. Fritze (TU Bergakademie Freiberg)				IBS26.0049 Biohydrometallurgical Extraction of Critical Metals from Spent Lithium-Ion Batteries via Direct Bioleaching by Mixotrophic Bacteria Mubarak & Chaerun (Inst. Tek. Bandung)									
IBS26.0042 Rhodanese-Like Sulfurtransferase in the Heterodisulfide Reductase Gene Cluster of Acidithiobacillus ferrooxidans Jifi Kučera (Masaryk University)				IBS26.0022 From bio-hydrometallurgical mineral refinement, metal recovery, and waste recycling to the biosynthesis of nanoparticles Mohammad Raouf Hosseini (Coventry U)									
IBS26.0121 Reconstruction of an extremophile electron transfer pathway in Escherichia coli: Functional validation of the Acidithiobacillus ferrooxidans iron reduction pathway H Fuchs (TU Bergakademie Freiberg)				IBS26.0152 Integration of Bioleaching with Sulphur Capture Päivi Kinnunen (VTT)				Prizes & Closing Remarks					
IBS26.0157 Exploring Acidophilic Microbial Communities in a Polymetallic Sulfide-Rich Magmatic Ore Deposit in Russia: A Novel Acidithiobacillus Species A Panyushkina (Winogradsky Institute)				IBS26.0120 SynBiomining for Critical Metal Recovery, Carbon Storage and Mine Closure Denys Villa Gomez (U. Queensland)				Conference End					
IBS26.0136 Enhancing chalcopyrite leaching in a heap bioleaching using microbial consortium design Bahman Taherien (UCT)				IBS26.0104 Integrated biomining approaches for critical mineral recovery and CO2 mineralization from mine wastes Kamalpreet Kaur Brar (NRC Canada)									
Day End				18:00 Coach departs for Gala Dinner									