

Time (Monday)	Monday June 24			Tuesday June 25			Wednesday June 26			Time (Tuesday Wednesday)
9.15 – 10.00 am	Plenary – Skip Kingston: The Isotopic Periodic Table Guides Quantitative Measurement in the Mining Environment.			Plenary – Jeffrey Skousen: Use of Reclaimed Lands for Income Opportunities and Development.			Plenary – Robert Nairn: Can Natural Infrastructure Help Restore Watersheds? Ecotoxic Metal Retention in Ecologically Engineered Passive Treatment Systems,			8.45 – 9.30 am
	1	2	3	1	2	3	1	2	3	
	1. Indigenous Communities	3. Industry: Closure Planning and Risk. Selenium Chair Steve Aiken	5. Elements of Biomining 1 Chair Nadia Mykytczuk	7. Radiochemistry Chair Francois Caron	9. CLRA Reclamation 1 Chair Jennifer Hargraves	11. Groundwater – Mineral Interactions Chair Jennifer Durocher	13. Mining Atmospheric Carbon 1 Chair John Gunn	15. Industry: Case Studies Chair Quentin Smith	17. Wetlands and Microbes Chair Varun Gupta	
10.30 -10.55 am	Review of Mining Project EAS and Permits by Indigenous Communities - Specialist Technical Team Approach – Aiken et al	Re-examining mining waste management - Chovan	Overview of the Elements of Biomining Project – Mykytczuk et al,	Incorporating Radiation Protection into Uranium and Rare Earth Mine Design – Fleming et al	Geology and Mining History of Sudbury - Peloquin	Mineralogical Composition, Weathering, and Alteration, to Manage ML/ARD in a Base-Metal Tailings Storage Facility – Durocher et al	L-CARE project overview – Basiliko	Rehabilitation plans for the Goudreau Open Pits; Part 1 – History – Aiken et al.	Use of Floating Treatment Wetlands for Reclamation and/or Treatment of Mining Process Water - Clark	10.00 – 10.25 am
10.55 – 11.20 am	Brazil and Canada: A Comparative Study on the Mining Industry towards the Indigenous Peoples - Duarte	Repurposing Mine Waste for Cover Applications with Environmental Intelligence – Lindsay et.	Ferric Sulfate Leaching of Pyrrhotite Tailings Under Controlled pH and ORP at 80 °C - Ren et al.	Small Modular Reactors (SMRs) in remote areas for mining – Caron et al	Physical Mine Hazard Rehabilitation – Taylor et al.	Mineralogical Controls on Arsenic Occurrence, Release, and Mobility in Mine Waste Rock Leachate – Norlund et al.	Contrasting patterns in dissolved concentration and isotopic signature in human-impacted Sudbury area – Couturier et al.	Rehabilitation Plans for the Goudreau Open Pits: Part 2 – Water Quality Issues and Management – Amores et al	Plant influence on iron and sulfur transformation, microbial communities, and long-term storage potential in a constructed floating wetland system- Gupta et al.	10.25 – 10.50 am
11.20 – 11.45 am	New Approaches to Mine Closure: Inuit Participation in Planning and Decision-Making in Northern Canada - Monosky	Planning for Sustainable Mine Closure - Ritchie et al.	Bioleaching of Nickel from sulphide ores and wastes at circumneutral pH under denitrifying conditions - Mazullo et al.	Mechanical, chemical, structural, and radiological changes associated with dietary intake of nickel recovery slag in pigeon bone - Galiano-Riveros et al.	Challenges in rehabilitating historical mine shafts in the former cobalt mining camp, northeastern Ontario – Story et al.	Hydrogeological and Geotechnical Study for an Iron Ore Mine in Labrador - Schmidt	Carbon sequestration in Terrestrial systems - Yavitt	Rehabilitation Progress at Glencore's Montcalm Mine in Timmins, ON - Marshall	The influence of drought on uranium geochemistry in a contaminated wetland complex – Parks et al	10.50 – 11.15 am
11.45 – 12.10 pm	The Future of Agreements – Henderson	Developing a Zero-Waste Project - Blackwell et al	Genomics-Driven Optimization of the Bio-recovery of Refractory Gold from Arsenic-Rich Materials – Khan et al.	The Effect of Impeller Configuration on Mass Transfer Coefficients and Particle Suspension in Stirred-Tank, Bench-scale Bioreactors - Wiesner	Bats like mines: Rehabilitation leads to habitat and species protection – Noel et al	Application of Novel Passive Groundwater Sampling Techniques at Northern Mine Sites to facilitate Rapid Hydrogeological Assessments and Mine Remediation - Sundaram	Mitigating wildfire risk in degraded metal-contaminated peatlands through restoration – Waddington et al.	Continual Improvement in SO ₂ Reduction - Mucklow	Performance of a geosynthetic clay liner cover system at a former Cu/Zn mine: microbiological characterization – Pakostova et al.	11.15 – 11.40 am
12.10 – 12.35 pm	The Insufficiency of Free, Prior and Informed Consent (FPIC) as Ethical Justification for Economic Development – Kwon	Advantages of Brownfield Site Development – Muir et al	A meta-genomic and meta-metabolomic analysis of a microbial community enriched from high arsenic mine tailings - Methe et al.	Optimization of Small Modular Nuclear Reactor Integration at Remote Mine Sites in Canada - Eastick	Jeffrey Mine Reclamation Project: Simply Amazing – Englobe	Investigations of Groundwater as a Water Supply in Northern Guinea-Bissau (Farim Phosphate Mine) - Foster	Carbon sequestration due to regreening across time – Levasseur et al.	Use of Ammonium sulfate concentrate derived from mine ammonia removal unit in fertilization of black spruce (<i>Picea mariana</i>) and Jack pine (<i>Pinus banksiana</i>) in a greenhouse and forest environment – Magdouli et al.	The potential role of <i>Halothiobacillus</i> spp. in sulphur oxidation and acid generation in circum-neutral mine tailings reservoirs - Whaley-Martin et al	11.40 - 12.05 pm

	2. Northern Issues Chairs Gretchen Lescord & Bryan Tisch	4. Models & Selenium Chair Lindsay Robertson	6. Elements of Biomining 1 Chair Nadia Mykytczuk	8. Analytical Methods Chair Teresa Switzer	10. CLRA Reclamation 2 Chair Jennifer Hargreaves	12. Mine and Environment Innovative Research Partnerships Chair Benoît Plante	14. Mining Atmospheric Carbon 2 Chair John Gunn	16. Industry: Geochemical Processes Chair Stephanie Marshall	18. Sudbury & Elliot Lake Chair Adam Cecchetto	
1.45 – 2.10 pm	Sustainable Mining - A new business imperative - Pedlar-Hobbs	A case study on water quality model development for a mining project in the Great Lakes Basin – Hamilton et al	Microbially-mediated reductive processes for sulfur and selenium – Baldwin et al.	Development and Application of an Adsorption Model for Nickel in Sudbury Area Soils – Evans et al.	Abandoned Mines Act - Stewart	Water balance modelling of a revegetated cover with elevated water table on the Manitou abandoned mine site in Northern Québec – Botula et al	Long-term impacts of metal smelting and acid deposition on carbon stocks in Sudbury lakes over the last 200 years – Meyer-Jacobs et al.	CO ₂ sequestration within mine wastes via weathering and mineralization- Power	Assessing changes in aboveground biomass on a recovering industrial landscape using vegetation indices applied to LANDSAT images – Levasseur et al.	1.30 – 1.55 pm
2.10 – 2.35 pm	Towards sustainable development of the Ring of Fire chromite resources - Paktunc	An exploration of GIS data collection techniques, architectures, and practical applications – Fischer et al.	Investigation of the Biodegradation of Diethylenetriamine and its Metal Chelates, an Effluent By-product in Nickel Mineral Processing – Furnel et al.	Legally Defensible Quantitative Chromium Species Assessment using EPA Method 6800 and New Resources - Henderson et al.	Improving Soil Health with Biotic Soil Technology – Welsh	A new drought index for oxygen barriers performance assessment under climate change - Bresson et al	What's up DOC? Drivers of lake dissolved organic matter - Erik Emilson et al.	Acid Mine Drainage Takes Its Time to Burn Out – a case for Interceding with Spot Treatments? – Coleman et al.	Soil liming increases enzymatic activities in soils impacted by mining activities in the City of Greater Sudbury, Ontario (Canada) - Narendrula-Kotha et al.	1.55 – 2.20 pm
2.35 - 3.00 pm	Effects of waterborne chromate (Cr 6 ⁺) on mRNA expression patterns in Lake Trout (<i>Salvelinus namaycush</i>) - Sherry	Fe-impregnated wood-based biochar for selenium removal in aqueous solutions – Satyro	Microbial Nickel Capture Proteins for Mining Applications – Diep et al.	History of Several Chromium Contamination Cases in the US and Examples of Interchanging Chromium Species in Dietary Supplements - Pamuku et al.	An evaluation of silica-Bacillus microencapsulation for reducing acid mine drainage from sulfur waste rock – Mitchell et al (<i>Tom Peters Student Award Winner 2018</i>)	Valorization of peat as organic cover or amendment for gold mine tailings reclamation - Rakotonimaro et al	Metal interactions with carbon biogeochemical processes. – Bellenger et al.	A sensitivity analysis on effluent quality within numerical models of a waste rock pile – Raymond et al	Tools to assess and restore multiple ecosystem functions and services – Santala et al.	2.20 – 2.45 pm
3.00 – 3.25 pm	Lake Sediment and Water Geochemistry over the McFaulds 1 Lake (“Ring of Fire”) region - Dyer	Treatment of Selenite and Selenate by reduction with Fe(0) and by precipitation with Na ₂ S – Calugaru et al	One-step efficient genome editing in <i>Acidithiobacillus ferrooxidans</i> via CRISPR/Cas9 – Chen et al.	Remote Monitoring at Northern Reclamation Mine Sites: Tailings Water Treatment Study - Leslie	Tailings reclamation and revegetation using municipal dewatered biosolids – Watson et al.	Assessment of drainage water quality from REE-bearing mine wastes – Edahbi et al.	Carbon sequestration following greening of a barren landscape: A chronosequence study – Preston et al.	When is Water Treatment Not Forever? Exploring the Actual Availability of Sulphide and Carbonate Mineral Contents in Acid Generating Rock – Skruch et al	Biogeochemical Influence on the Mobility of Uranium in the Marsh Soil of the Lower Williams Lake – Mizutani et al	2.45 – 3.10 pm
3.25 – 3.50 pm	Chromium, arsenic, and other elements of concern in fish from remote boreal lakes and rivers: drivers of variation and implications for subsistence consumption – Lescord et al.	Using Ion exchange column for selenium removal in mine effluents – Zolfaghari et al	Techno economic assessments of pyrrhotite processing technology options – Saville et al.	Remote Monitoring at Northern Reclamation Mine Sites: Remote Sensing and Telemetry Approach Study - Ingham	Evaluation of Dry Covers Emplaced at the Kam Kotia Mine, Timmins, ON – Schmall et al.	Geochemical and mineralogical characterization of an inactive tailings storage facility: the case study of Joutel mine – Elghali et al	Restoration strategies as carbon offsets. Beckett et al.	In-Situ Application of Batch Treatment for Water Management at Closed Mine Sites – Barabash et al.	More than 20 years later, the status of longterm Stewardship and Management of Denison’s Decommissioned Uranium Mines and Mills in Elliot Lake, Ontario - Cecchetto	3.10 – 3.35 pm
4.15 – 5.15 pm	Plenary			Plenary – Willian Shotyk: Metals versus Minerals in the Mining Environment: Misconceptions and Misunderstandings			Plenary - Mark Tibbert: The development soil organic matter in biodiverse forests restored in ancient landscapes			4.00 – 5.00 pm

