

CONFERENCE PROGRAM			
Tuesday, June 14, 2022			
13:00 - 17:00		Short Course - Precipitation and Stormwater Management for Mine Closure: Analysis and Design - Bill Kappel, Nathan Haws	
17:30 - 18:30	17:30 - 17:40	Introduction and Welcome - Dirk van Zyl, Professor Emeritus, University of British Columbia	
	17:45 - 18:30	Opening Keynote Speaker - Dr. Jocelyn Fraser, Research Associate, Bradshaw Research Initiative for Minerals and Mining, University of British Columbia	
17:30 - 20:00		Exhibit Hours	
17:30 - 20:00		Icebreaker Welcome Reception	
Wednesday, June 15, 2022			
07:30 - 09:00		Registration Open	
07:30 - 08:30		Speakers Breakfast	
09:00 - 17:00		Exhibit Hours	
08:30 - 9:30	08:30 - 8:40	Introduction, Welcome and Safety Share - Dirk van Zyl, Professor Emeritus, University of British Columbia	
	08:40 - 8:45	Patron Sponsor Welcome - Dr. David Luzi, Senior Principal at Stantec	
	08:45 - 9:30	Keynote Speaker - Kate Sommerville, General Manager, BHP <i>Water in Mine Closure – Let's Reimagine our Legacy</i>	
9:30 - 10:00		Refreshment Break	
		SESSION 1: Mine Water Management Chair: David Luzi	SESSION 2: Mine Water Characterization and Prediction Chair: Nathan Haws
	10:00 - 10:20	24. Hydrometric monitoring and Effluent Discharge Mixing in Challenging Natural Conditions - Michael Barrett	23. Transient Simulation of Dewatering to Estimate Potential Effects to Water Resources for an Open Pit Lithium Mine in NC - Shane McDonald
10:00 - 12:00	10:20 - 10:40	41. Improving the performance of Mineral Flotation by treating Process Water - Richard Dixon (Online)	25. Seamlessly Integrated Modeling Approach: From Conceptual Geological to Numerical Models - Mundzir Basri
	10:40 - 11:00	60. Water Treatment Intake and Fish Barrier Design in Mountainous Streams - Avneet Button and Matthew Graham	71. Investigating Ammonia Loading Mechanisms at an Underground Gold Mine - Pascal Marcotte
	11:00 - 11:20	54. Suggested Best Practices for Water Stewardship in Mining - Simone Dennison	49. The model is wrong get over it – uncomfortable truths and decision making with mathematical models - Jason Morrissey
	11:20 - 11:40	56. Predictive mine water balance modelling – does accurate mean reliable? - Ali Naghibi	6. Mineral Reaction and Solute Loading Rates from Field ARD Test Pads at the Bagdad mine in Arizona - Madhumitha Raghav (Online)
	11:40 - 12:00	72. Industrial Scale Non-Biological Selenate Removal – Examples of Plants & Criteria behind Process Selection - HC Liang	69. Watershed Recovery in the Elliot Lake Area 20 Years Post Closure - Jess Tester and Holly Heffner
12:00 - 13:00		Lunch	
13:00 - 14:00		Plenary Session Chair: Dennis Gibson - President Snowline Group	
	13:00 - 13:20	34. Water in Tailings: a review of 20 years of post-closure tailings performance - Clara Balasko	
	13:20 - 13:40	51. Climate change impact on water management design for the rehabilitation of the former rum jungle uranium mine - Danielle O'Toole	
	13:40 - 14:00	47. PFAS and the Mining Industry: Understanding the Challenges - Justin Hains	
14:00 - 14:30		Refreshment Break	
		SESSION 3: Mine Water Management Chair: Henlo Du Preez	SESSION 4: Water Treatment Chair: Leonard Santisteban
14:30 - 16:30	14:30 - 14:50	46. Improving Efficiency in Underground Mine Process Water Reticulation Systems - Wayne Johnstone	10. Thermally activated minerals and waste for mine water treatment - Luliana Laura Calugaru (Online)
	14:50 - 15:10	35. An Overview of Risk Allocation and Delivery mode for Desalinated Water Supply Projects in Mining - Richard Dixon (Online)	42. Complete Nitrate Removal Using a Novel Ion Exchange and Encapsulated Bacteria System - Sivan Iswaran
	15:10 - 15:30	28. Groundwater Recharge Estimates in Mine Site Using Integrated Hydrological Model: Review and Critique - Mundzir Basri	16. A Novel Photocatalytic Approach to Passive Mine Water Treatment - Jeffrey Martin
	15:30 - 15:50	55. Managing AMD During Design and Construction of the Expanded Bunker Hill Central Treatment Plant - Charles Hand	17. Biogeochemical Attenuation of Selenium and Nitrate in Mine Contact Waters - Dickson Atuke
	15:50 - 16:10	59. Restoring Performance of RO Membranes with Severe Scaling from Contaminated Tailing Pond Water Source using Specialty Cleaners - Mazen Ellabban	48. Asset-Level Benchmarking of Water Use and Production Risk in the Mining Industry - Raymond Philippe (Online)
	16:10 - 16:30	68. Engineered controls to mitigate nitrate leaching from explosives in blast holes - Johan Hawinkel	20. Innovative Approach to Active and Passive Water Treatment for Complex Water Quality Applications: The Removal and Recovery of Transition, Post-transition, Lanthanide, and Actinide Metals - Joseph Laurino
17:00 - 19:00		Reception	

Thursday, June 16, 2022		
08:00 - 09:00		Registration Open
07:30 - 08:30		Speakers Breakfast
09:00 - 17:00		Exhibit Hours
8:30 - 9:15	8:30 - 8:40	Introduction, Welcome and Safety Share - Dr. Brenda L. Bailey, Senior Geochemist/Senior Associate at Stantec
	8:40 - 9:15	Keynote Speakers - Tania Demchuk - Assistant Deputy Minister, Ministry of Energy, Mines and Low Carbon Innovation, British Columbia Laurel Nash - Assistant Deputy Minister for Strategic Partnerships and Initiatives Division, British Columbia.
9:15 - 9:45	9:15 - 9:20	Introduction - Dr. Brenda L. Bailey, Senior Geochemist/Senior Associate at Stantec
	9:20 - 9:45	Keynote Speaker - Dr. Caspar Amman - Chief Scientist, Climate Strategies Group
9:45 - 10:15		Refreshment Break
		SESSION 5: Closure Water Management Chair: Jeremy Scott Collyard
		SESSION 6: Water Treatment Chair: Dickson Atuke
10:15 - 12:05	10:15 - 10:35	18. Tiered Approach to Successful Construction of Sulfate Rich Water Passive Treatment System - Jason Dodd
	10:35 - 11:05	31. The State of "Zero Liquid Discharge" - John Sainas
	11:05 - 11:25	50. Quellaveco Mine water supply, a stewardship approach - Enrique Buschiazzo
	11:25 - 11:45	5. A Tale of Two Treatment Systems: Evaluation of Active and Passive Treatment Strategies For A Legacy Mine - Ren Bryce
	11:45 - 12:05	45. Optimizing Contact Water Treatment during the Lupin Mine Closure - James McKinley
		2. Removal of selenium by reduction to selenite and surface complexation - Marc Laliberté
		3. Lab-Scale Bioremediation Treatability Studies for Legacy Mines and Lessons Learned - Leonard Santisteban
		9. Treatment of a Thickener Overflow in Metal Mining Using Membrane Separation Technologies - Sanaz Mosadeghsedghi
		43. A Selective Sulphate Removal Plant Using an Innovative Approach to Ion Exchange - Sivan Iswaran
		62. Heavy metal removal from polluted waters using <i>Schoenoplectus californicus</i> and <i>Phragmites australis</i> - Maribel Guzman
12:05 - 13:00		Lunch Break
13:00 - 14:00		Panel Discussion Moderator: Andrew Watson 32. ECO Score: a new environmental standard for industry and its applicability in water management - David Vexler Panelists: David Vexler + TBD
14:00 - 14:30		Refreshment Break
		SESSION 7: Water and Tailings Management Chair: Andrew Watson
		SESSION 8: Water Treatment Chair: H.C. Liang
14:30 - 16:30	14:30 - 14:50	19. Review of internet-of-things enabled monitoring systems for tailings storage facilities - Ali Siamaki
	14:50 - 15:10	14. Emerging From a Regulatory Corner in the Oilsands - Lindsay Tallon
	15:10 - 15:30	7. Market Viable Products from Mine Tailings - Stefka Ormsby
	15:30 - 15:50	22. Quantifying Flood-Induced Risk to Tailings Embankment Stability: Avoiding the Alarmist Model - Assaf Wunsch
	15:50 - 16:10	57. Towards Autonomous Tailings Monitoring with Amphibious Robots - Nicolas Olmedo
	16:10 - 16:30	
		38. Metals Removal in a Two Stage HDS Pilot Study on Concentrated Mine Water - John Schubert
		13. Evaluating Novel Organic Substrates for Sulfate-Reducing Biochemical Reactors Treating Mine Water - Leonard Santisteban
		29. Biological Treatment of Uranium at the Historical Schwartzwalder Mine, Colorado, USA - Jim Harrington
		52. Seven Years of PFAS Planning and Removal: Lessons Learned for the Mining Community - Pierre Kwan
		61. Accurately forecasting the extra treatment cost associated with removal of lesser regulated PFAS species in water - Matilda Kearney
		33. IIoT: Benefits and Process Optimisation in the Management of remote Dewatering Systems - Andrea Pezzi (Online)
17:00		Conference Closing