

New Zealand Branch Annual Conference 2024

Shaping the Future of New Zealand's Resource Sector: Innovative Solutions for Critical Minerals



DRAFT CONFERENCE PROGRAM

Day 1 - Monday 19th August

12:00 PM - 12:05 PM	Day 1 Opening	
Plenary 1: Environmental Geochemistry and Hydrogeology Chair: Paul Weber		
12:05 PM - 12:20 PM	James Pope	Geochemistry of AMD Neutralisation Reactions
12:20 PM - 12:35 PM	Leo Navarro	Forecasting Water Quality from Waste Rock Stacks – A relationship with height
12:35 PM - 12:50 PM	Rachel Skews	Macraes Enhanced Passive Treatment System - first insights
12:50 PM - 01:05 PM	Tim Mulliner	Nitrogen compounds and mine impacted surface waters. Chemistry, regulation and treatment.
01:05 PM - 01:20 PM	Dave Trumm	Performance of the largest upflow mussel shell bioreactor in New Zealand for the treatment of AMD
01:20 PM - 01:35 PM	Paul Weber	Passive Treatment using Mussel Shell Bioreactors: Understanding Risks and Long-term Costs
01:35 PM - 01:50 PM	Katy Grant	The importance of baseline monitoring data
01:50 PM - 02:05 PM	Jeremy Haynes	TSFs, seepage and groundwater interactions – An overview of conceptual models for seepage management
02:05 PM - 02:20 PM	Chris Simpson	Hydrogeological Aspects of Epithermal Mineral Deposits in the Coromandel Peninsula
02:20 PM - 03:10 PM	Afternoon Tea (light Lunch)	
Plenary 2: Geology #1 Chair: Ryan Burgess		
03:10 PM - 03:25 PM	Mark Lionnet / Paul Weber	Geology and Geochemistry of Mt Fred South Project, Stockton Plateau
03:25 PM - 03:30 PM	Joe Cunningham	Devils Siphon Prospect
03:30 PM - 03:40 PM	Alicia McKean	Structural constraints on Gold Mineralisation of the Capburn Fault.
03:40 PM - 03:55 PM	Tony Christie	Magmatic input in the formation of epithermal Au-Ag deposits of the Hauraki Goldfield, New Zealand
03:55 PM - 04:10 PM	Hamish Blackmore	Macraes
04:10 PM - 04:25 PM	Bob Brathwaite	Granite-related tungsten and gold mineralisation at Kirwans Hill, Reefton
04:25 PM - 04:40 PM	Martin Brook	Opencast mines as Work Integrated Learning (WIL) opportunities for a university postgraduate course
04:40 PM - 04:45 PM	Hunter Hewson	Antimony mineralisation in the Carrick Range, Central Otago
04:45 PM - 05:00 PM	Matthew Grant	Resource estimation for underground gold mining at Macraes over the past two decades
05:00 PM - 05:15 PM	Engda Bahiru	Regolith-hosted rare earth element mineral potential mapping: an Australian perspective
05:15 PM - 05:30 PM	Dave Manhire	Phosphating the Future: Updates on our Latest Projects in L&M
05:30 PM - 05:35 PM	Marko Graham	Sustainable Mineral Utilization with Evolving Legislation: A New Zealand-Philippines Case Study
05:35 PM - 05:50 PM	Mike Stewart	Visual Geology
06:00 PM - 10:00 PM	Welcome Function - Sponsored by Terra Cat	

Day 2 - Tuesday 20th August

08:30 AM - 08:40 AM	Conference Opening and Powhiri	
08:40 AM - 08:50 AM	Hamish McLauchlan, NZ Branch Chair Welcome and opening address	
Plenary 1: Conference Opening Plenary Chair: Hamish McLauchlan		
08:50 AM - 09:00 AM	TBC	
09:00 AM - 09:30 AM	Shane Jones	Ministerial Address: Shane Jones - Minister for Resources
09:30 AM - 09:45 AM	TBC	
09:45 AM - 10:00 AM	Kit Wilson	My journey
10:00 AM - 10:15 AM	Narelle Wolfe - AusIMM	The role of Social Transition in Integrated Mine Closure
10:15 AM - 10:30 AM	Richard Turner - Mitchell Daysch	Scoping Your Fast Track Application
10:30 AM - 10:35 AM	Steve Durkin - AusIMM	Session Wrap up
10:35 AM - 11:05 AM	Morning tea	
Plenary 2: Executive Address Chair: Lauren Farmer		
11:05 AM - 11:20 AM	Richard Tacon - Bathurst	
11:20 AM - 11:35 AM	Oceana Gold	
11:35 AM - 11:50 AM	Ray Mudgway - Westland Mineral Sands	West Coast Project update
11:50 AM - 12:05 PM	Damian Spring - Santana Minerals	All Eyes on Rise & Shine - Unveiling NZ's Newest Major Gold Discovery
12:05 PM - 12:20 PM	Simon Delander - Federation Mining	Next Steps with Snowy River Mine
12:20 PM - 1:20 PM	Lunch	
Plenary 3: Health Safety Wellbeing Chair: Paul Miles		
01:20 PM - 01:35 PM	Paul Hunt	Chief Mines Inspector Update
01:35 PM - 01:55 PM	Mary Obele	Breath of Awareness: Understanding Silicosis and Prioritizing Health & Safety
01:55 PM - 02:10 PM	Grace Chen	Potential Exposure to Erionite in the New Zealand Workplace
02:10 PM - 02:25 PM	Ayrton Hamilton	Assessing and Managing the Risk of Carcinogenic Erionite in New Zealand: what we now know
02:25 PM - 02:40 PM	Wayne Scott	Update from
02:40 PM - 02:55 PM	Kaley Crawford-Flett	The state of New Zealand dam safety practice in 2024: An overview of technical and regulatory changes
02:55 PM - 03:30 PM	Afternoon Tea	
Plenary 4: Planning for Closure Chair: Bridget Johnson		
03:30 PM - 03:45 PM	Chantel Dodge - Mine Closure Management	Sustainable Mine Closure
03:45 PM - 04:00 PM	Andrew Hutton - IEMA	Implementing Comprehensive Systems for Effective Mine Closure: Leveraging Technology for Enhanced Rehabilitation Outcomes

04:00 PM - 04:15 PM	Phillipe Garneau - ATC Williams	Closure Planning or Closure Design: distinction, integration, and too-common pitfalls
04:15 PM - 04:30 PM	Anthony Bennett - Okane	Integrated Mine Closure Practices Throughout the Mine Lifecycle – an International Perspective
04:30 PM - 04:45 PM	Josh Leckie and Paul Weber	Planning for Closure and Management of Uncertainty
04:45 PM - 05:00 PM	Vanja Sekizovic - GR Projects	Options Assessment for closure
05:00 PM - 06:00 PM	AusIMM New Zealand Branch Annual Meeting	
06:00 PM - 10:00 PM	Annual Dinner	
Day 3 - Wednesday 21st August		
08:25 am - 08:30 am	Hamish McLauchlan	Kick off Day 2
Plenary 5: Exploration Chair: Hamish McLauchlan		
08:30 AM - 08:40 AM	Barbara Lyon	Misidentified Sinter at Ohakuri - Missed Opportunities for Mineral Exploration?
08:40 AM - 08:55 AM	Paul Angus	Exploration update on Reefion and Sam's Creek projects
08:55 AM - 09:10 AM	Phillip Greville	Development of an exploration information system for prospect targeting and commercial decision making
09:10 AM - 09:25 AM	Simon Henderson	Rua Gold
09:25 AM - 09:40 AM	Dr. Eli Zadeh, Katie Peters, Dr. Tom Czertowicz	Australian Granite Database: A roadmap for modern mineral exploration projects
09:40 AM - 09:55 AM	Robert Smillie	South Korean and New Zealand minerals and mining: A Tale of Two Countries
09:55 AM - 10:25 AM	Morning Tea	
Plenary 6: Innovation, Planning, Technology Chair: Leroy Crawford-Flett		
10:25 AM - 10:40 AM	Maximilian Court	Critical Minerals
10:40 AM - 10:55 AM	Rob Boyd	Does converting boilers from coal to biomass really reduce emissions
10:55 AM - 11:10 AM	Pieter Doelman	Introducing an Electric Shovel into a Fleet of Diesel Backhoes
11:10 AM - 11:25 AM	Phillip Greville	Development of an exploration information system for prospect targeting and commercial decision making
11:25 AM - 11:40 AM	Hemanshu Soma	Implementation of Downhole Geophysical Logging Methods for Geotechnical Solutions
11:40 AM - 11:55 AM	Kat Lily -RSC	TBC - SEM characterisation
11:55 AM - 12:55 PM	Lunch	
Plenary 7: Geotechnical and Mining Chair: Luke Matheson		
12:55 PM - 01:10 PM	Alex Watson	Tackling Squeezing Ground at Snowy River Gold Mine
01:10 PM - 01:25 PM	Dean Coplestone	Never give up, Maramarua K1 Pit Geotech performance – a mine operators perspective
01:25 PM - 01:40 PM	Ryan Burgess	Design of Engineered Landforms at Mine Sites for High Rainfall Conditions to Improve Closure Outcomes
01:40 PM - 01:55 PM	Jol Jardine	Project Update for Macraes Underground and Operational Improvements at Macraes Underground
01:55 PM - 02:10 PM	William Starzynski	The Use of Trench Sampling in Open Pit Coal Mines for Cost Effective Data Capture

02:10 PM - 02:25 PM	Patrick Enright	Snowy River Mine - managing our ground convergence
02:25 PM - 02:40 PM	Jonathan Shamrock	Geosynthetics in Mining - TBC
02:40 PM - 02:55 PM	Luke Matheson	Mining to Modern Landfill, Mining History and Remediation at Pukimiro Collieries
02:55 PM - 03:25 PM	Afternoon Tea	
Plenary 8: Contaminated Sites and Environmental Chair: Ayrton Hamilton		
03:25 PM - 03:30 PM	Julie Palich	Navigating Risk: Integrating Contaminated Site Management across the Mining Life Cycle
03:30 PM - 03:45 PM	Andrew Rumsby	Detailed Site Investigation of Puhipuhi Mercury Mine, Northland
03:45 PM - 04:00 PM	Dave Bull	Unhappy Ever After? Investigating Heritage Mining Sites
04:00 PM - 04:15 PM	Bridget Johnson	Learning from the Land: Vegetation Trials and Mining Case Studies for Progressive Rehabilitation
04:15 PM - 04:30 PM	Gary Bramley et al	Developing a geodatabase from drone acquired high-resolution imagery for vegetation mapping, habitat monitoring and ecological restoration of the Buller Coal Plateau
04:30 PM - 04:45 PM	Duncan Gray	Water quality discharge to Ngakawau to remove a chemical barrier to fish migration
04:45 PM - 05:00 PM	TBC	
05:00 PM - 06:30 PM	Finishing Function and Conference Close Chair: Hamish McLauchlan	