

# AusIMM New Zealand Branch Annual Conference

24 - 26 August 2025, Millennium Hotel, Queenstown, New Zealand

## DRAFT PROGRAM

Sunday 24 August 2025		
11:30 AM - 12:00 PM	Registration and light lunch	
12:00 PM - 12:05 PM	Welcome and Opening -Hamish McLauchlan, NZ Branch Chair	
	Plenary 1: Environment / Water	Chair: Paul Weber
12:05 PM - 12:20 PM	Pragmatic groundwater management at mine sites: a case study from Snowy River Mine	Ryan Burgess - Hydro Geochem Group Ltd
12:20 PM - 12:35 PM	From Predictions to Reality: Unveiling the Hydrological and Water Quality Impacts of Mineral Sand Mining	Zeb Etheridge - Komanawa Solutions Ltd
12:35 PM - 12:50 PM	Responding to increased climate risk	Jim Griffiths - Hydro Geochem Group
12:50 PM - 01:05 PM	Fractured Aquifers Under Stress: Assessing Sinkhole Impacts Through Regional Groundwater Modeling	Rodrigo Zamorano - Sephira Environmental
01:05 PM - 01:20 PM	The special challenges of water disappearing underground	Jens Rekker - Komanawa Solutions Ltd
01:20 PM - 01:35 PM	Quarry Backfill – How much Contamination is too much?	Helen Mongillo - Sephira Environmental
01:35 PM - 01:50 PM	Alternatives to water quality defaults for managing ecological recovery	Duncan Gray - Pattle Delamore Partners
01:50 PM - 02:00 PM	Short Break	
	Plenary 2:	Chair: Ryan Burgess
02:00 PM - 02:15 PM	Snowy River Mine Geochemistry Studies	Simone Hoodhills - Mine Waste Management
02:15 PM - 02:20 PM	Precision in prediction: The role of Manganese Carbonates in modelling AMD	Alex Blair - university of Canterbury
02:20 PM - 02:35 PM	Water Quality Modelling of Backfilled Pits	Leonardo Navarro-Valdivia – Mine Waste Management
02:35 PM - 02:40 PM	Overburden Weathering Trials; Stockton Coal Mine (20 Year of Data)	Monique Weber - Student representing Bathurst
02:40 PM - 02:55 PM	Passive treatment in New Zealand - an overview of how far we have come in the field	Dave Trumm - Verum Group
02:55 PM - 03:25 PM	Afternoon Tea	
	Plenary 3: Geology /Exploration	Chair: Leroy Crawford-Flett
03:25 PM - 03:40 PM	Pluton Map characterisation for intrusion-related mineral exploration	Mark Rattenbury - Earth Sciences New Zealand
03:40 PM - 03:45 PM	Geological Occurrence and Characterisation of Mineral Fibers in New Zealand Soils	Satendra Kumar - University of Auckland
03:45 PM - 04:00 PM	Zircon trace element indicators for porphyry-style deposit fertility of New Zealand plutons	Matt Sagar - New Zealand Institute For Earth Science
04:00 PM - 04:05 PM	High-resolution techniques for assessing pounamu quality	Natalia Seliutina - University of Otago
04:05 PM - 04:10 PM	Insights into the hard rock sources of alluvial monazite and xenotime placer mineralisation within the Paparoa Ranges provided by Sm-Nd, Rb-Sr and U-Pb isotopes	Marshall Palmer - University of Otago / Hardie Pacific
04:10 PM - 04:25 PM	Project update Otagold - UVRE	Peter Zitnan - UVRE Limited
04:25 PM - 04:30 PM	Mount Horrible Decoded: New Perspectives from Geological Mapping	Ashleigh Prichard - University of Otago
04:30 PM - 04:45 PM	Rua Gold presents an update on the Glamorgan Epithermal gold prospect Hauraki, NZ	Sonke Stern - Reefton Gold Ltd
04:45 PM - 04:50 PM	Gold along the faulted Reefton Group – Greenland Group contact, Crushington, Reefton, NZ	Sike, Li - University of Otago
04:50 PM - 05:05 PM	Rua Gold presents update on the Reefton gold-antimony prospects West Coast, NZ	Jamie Cudby - Reefton Gold Ltd
05:05 PM - 05:10 PM	Research project - Heavy Minerals from Taieri River Mouth	Kate Wignell - University of Otago
05:10 PM - 05:25 PM	Profiling Rock Hardness to Enhance Mining Efficiency: Equotip 550-D Testing of Exploration Drill Core at Macraes Gold Mine	Campbell Ryland - OceanaGold Corporation
06:00 PM - 10:00 PM	Welcome Function (Exhibition Area) - sponsored by Terra Cat	
Monday 25 August 2025		
08:00 AM - 08:20 AM	Powhiri (Welcome)	
08:20 AM - 08:30 AM	Chris Carr FAusIMM(CP) , AusIMM President Hamish McLauchlan FAusIMM , NZ Branch Chair	Welcome and opening address.
	Plenary 4: Geology Tech	Chair: Ayrton Hamilton
08:30 AM - 08:45 AM	The M1 Pit extension at Maramarua Mine: Geology, Structure, and Development	Mohamed Hassan - BT Mining
08:45 AM - 09:00 AM	Hardie Pacific Group - Projects overview	Tom Ritchie - Hardie Pacific Group
09:00 AM - 09:15 AM	Visible Geology - training the next generation in geology	Aaron Dutton - Seequent

09:15 AM - 09:30 AM	Enhancing Exploration Opportunities: Development of GNS Science’s New Critical Minerals Website and Web Map Atlas Resources.	Matthew Hill - Earth Sciences New Zealand
09:30 AM - 09:45 AM	Virify, use of machine learning and AI	Simon Henderson
09:45 AM - 10:00 AM	Beyond the Inferred Classification in Seabed Nodule Deposit Estimation: Establishing the Short-Range Variability	Stephie Tay - RSC Consulting Limited
10:00 AM - 10:15 AM	How cloud based modelling solutions empower mining businesses to thrive amidst increasing deposit complexity	Henry Dillon - Maptek
10:15 AM - 10:45 AM	Morning Tea (Exhibition Area)	
	Plenary 5: Mining /metallurgy	Chair:
10:45 AM - 11:00 AM	Maximising Machinery Performance: The Power of Fluid Analysis	Laura Hendry - Terra Cat
11:00 AM - 11:15 AM	Developing new clean metallurgical processes for the production of DRI and vanadium from NZ ironsand	Morgan Lowther - Robinson Research Institute
11:15 AM - 11:30 AM	Snowy River: Concept to Development: A return to the Golden Days	Marius Phillips - Pitch Black Group
11:30 AM - 11:45 AM	Ericsson and Newmont: 5G and the safer, smarter mine	Ian Ross - Ericsson Enterprise Wireless Solutions
11:45 AM - 12:00 PM	Recruitment of Mining Engineers to drive the future of mining and resource development in New Zealand	Sally Harrison - OceanaGold Corporation
12:00 PM - 12:15 PM	Extractive metallurgy of NZ mineral ores	Chris Bumby -Robinson Research Institute
12:15 PM - 01:15 PM	Lunch (Exhibition Area)	
	Workshop 6: Health and Safety Workshop	Chair: Paul Miles
01:15 PM - 01:30 PM	From Reactive to Resilience: Early Insights from Establishing a Critical Risk Management System	Karen Belousoff
01:30 PM - 01:45 PM	Developing a Best-in-Class Contractor Management Program with the Emergence of Leading Indicators and SIFs	Chris Barto - ISN
01:45 PM - 02:00 PM	An update from Worksafe	Dave Bellett - Deputy Chief Inspector
02:00 PM - 02:15 PM	Hydraulic hose test program	Richard Hay
02:15 PM - 02:30 PM	Lessons learnt from staging large scale underground emergency exercises	Paul Miles- Santana Minerals Ltd
02:30 PM - 03:00 PM	Afternoon Tea (Exhibition Area)	
	Plenary 7: Geotechnical	Chair: Luke Matheson
03:00 PM - 03:15 PM	Portal and Decline Ground Support and Numerical Model Validation, Poboya River Reef, Indonesia	Alex Phillips - MineGeotech Pty Ltd
03:15 PM - 03:30 PM	Stress strain regime changes around the Mt Willian fault and its implications for highwall stability	Ben Hyde - Bathurst Resources Limited
03:30 PM - 03:45 PM	An innovative approach to Ground Support application at Mt Messenger	Scott Turton - Normet
03:45 PM - 04:00 PM	Tailings Management or open pit design	Luke Matheson - Pattle Delamore Partners
04:00 PM - 04:15 PM	Automation of monitoring sensors	Paul Burton - Geotechnics/Cirro
04:15 PM - 04:30 PM	Beyond Safety Factors: A Dual Approach to Slope Stability Assessment	Jason Grieve - Pattle Delamore Partners
04:30 PM - 04:45 PM	Mine Closure in New Zealand	Marcel Smith - Tonkin + Taylor
04:45 PM - 05:30 PM	AusIMM NZ General Meeting	
06:00 PM - 7:00 PM	Pre Dinner Drinks (Exhibition Area)	
07:00 PM - 10:00 PM	Annual Dinner - Sponsored by Sandvik	
Tuesday 26 August 2025		
08:25 AM - 08:30 AM	Hamish McLauchlan	Kick off Day 2
	Plenary 8:	Chair: Kit Wilson
08:30 AM - 08:45 AM	ESG Capability - Who needs it?	Narelle Wolfe - AusIMM
08:45 AM - 09:00 AM	MBIE Resource Markets 2025 update	Katherine MacNeill - New Zealand Petroleum and Mineral
09:00 AM - 09:30 AM	Miinisters Address	Hon Shane Jones - Resources Minister
09:30 AM - 09:45 AM	Fast Track learning 1 year on	Kit wilson (on behalf of Alison Brown)
09:45 AM - 10:00 AM	Offsetting and Compensation – opportunities for future generations through mining projects	Joshua Leckie - Lane Neave Lawyers
10:00 AM - 10:15 AM	RMA Reform	Simon Court MP Parliamentary Under-Secretary to the Minister Responsible for RMA Reform
10:30 AM - 11:00 AM	Morning Tea (Exhibition Area)	
	Plenary 9:	Chair: Hamish McLauchlan
11:00 AM - 11:15 AM	OceanaGold update	James Isles
11:15 AM - 11:30 AM	Project update from 2024 conference	Ray Mudgway
11:30 AM - 11:45 AM	Bathurst update	Richard Tacon
11:45 AM - 12:00 PM	Santana Update	Damian Spring

12:00 PM - 12:15 PM	TTR Taranaki VTM Project - In the Fast Track	Alan E Eggers - TTR Global Limited
12:15 PM - 01:15 PM	Lunch (Exhibition Area)	
	<b>Plenary 10:</b>	Chair: Bridget Johnson
01:15 PM - 01:30 PM	Beyond the Black Gold - Unlocking New Zealand's Economic Potential using the Scientific Method	Peter Gunn - Coal Marketing International Limited
01:30 PM - 01:45 PM	ANZECC 2000: a silver anniversary	Dr Mike Fitzpatrick - ecoLogical Solutions
01:45 PM - 02:00 PM	Risk based approach to revegetation of challenging post mine landforms	Dr Bridget Johnson - Okane Consultants
02:00 PM - 02:15 PM	Environmental Data Management that Works for You	Nerena Rhodes
02:15 PM - 02:30 PM	Beyond Compliance: Integrating Environmental Awareness into Responsible Mining Operations at Stockton Mine	Hillary Cameron - BT Mining
02:30 PM - 02:45 PM	Managing effects of sand mining on birds at Barrytown	Dr. Gary Bramley - ecoLogical Solutions
02:45 PM - 03:00 PM	Recent developments in understanding and assessing the adverse effects, mitigation and monitoring of dust.	Jeff Bluet
03:00 PM - 03:15 PM	Diversion of the Mangakotukutuku Stream - Post Diversion Update	Shanae Talbot - Bathurst
03:15 PM - 03:45 PM	Afternoon Tea (Exhibition Area)	