



2024 MRIWA Research Showcase

IMPLEMENTING MINERALS RESEARCH FOR IMPACT
PAST, PRESENT & FUTURE

20 AUGUST 2024

FRASER'S KINGS PARK, PERTH

minerals research advancing wa

08:00 REGISTRATION & COFFEE**08:30 SESSION 1**

08:30	Opening: Hon. David Michael MLA, Minister for Mines and Petroleum - via video (pre-recorded)
08:35	MC Introduction: NICOLE ROOCKE (CEO, MRIWA)
08:40	Welcome to Country - LEN COLLARD
08:50	MC Opening: NICOLE ROOCKE (CEO, MRIWA)
09:00	Keynote Speaker: PETER KLINKEN AC (WA CHIEF SCIENTIST) Western Australia's 10-Year Science and Technology Plan
09:20	Research Project 1 Presentation: PROKOPIY VASILYEV (RESEARCH FELLOW, JOHN DE LAETER CENTRE, CURTIN UNIVERSITY) From Sample Collection to Global Collaboration: The Impact of MRIWA-supported Projects on Critical Minerals Research
09:35	Research Project 2 Presentation: RYAN NOBLE (SENIOR PRINCIPAL RESEARCH SCIENTIST, CSIRO) The Journey to Change Minerals Exploration Using Ultrafine Soils and Data Analytics
09:50	Research Project 3 Presentation: ANDY FOURIE (PROFESSOR OF ENGINEERING AND MATHEMATICAL SCIENCES, UWA) Ensuring Safe, Sustainable Management of Mine Tailings While Exploring Options for a Non-Tailings Future
10:05	Fireside Chat: Opportunities, Barriers and Challenges to Curating Programs of Work to Progress Foundation Research Through to Utilisation PETER KLINKEN (WA CHIEF SCIENTIST) NICOLE ROOCKE (CEO, MRIWA)
10:25	Closing Comments: NICOLE ROOCKE (CEO, MRIWA)

10:30 MORNING TEA | POSTER DISPLAY NETWORKING OPPORTUNITY**11:00 SESSION 2**

11:00	MC Opening: TIM WALTON (METS RESEARCH PORTFOLIO MANAGER, MRIWA)
11:05	Facilitated Discussion: "Field-based XRF for prompt Au results" - so much more than rapid gold results, anywhere! SIMON BOLSTER (MANAGING DIRECTOR, PORTABLE PPB) TIM WALTON (METS RESEARCH PORTFOLIO MANAGER, MRIWA)
11:25	METS PRESENTATION 1: SIMON HADLEY (DESIGN DIRECTOR, SYRINX) Wetland in a Box (EnPhytoBox®) - a Smart Water Treatment System to Support the Decarbonisation of Water in Mining
11:35	METS Presentation 2: SHAWN RYAN (DIRECTOR, BIG ROLLER™) Overland Conveyor Optimisation
11:45	METS Presentation 3: PAUL COLLEY (CEO, TOTAL MARINE TECHNOLOGY) Automated Self-Calibrating Flange Bolting Robot for Mining and Minerals Processing Infrastructure
11:55	Keynote Speaker: MICHELLE CAREY (CHIEF STRATEGY OFFICER, IMDEX) The Role of External Research as Part of a Balanced Product Development Portfolio
12:15	Closing Comments: TIM WALTON (METS RESEARCH PORTFOLIO MANAGER, MRIWA)

12:30 LUNCH | POSTER DISPLAY NETWORKING OPPORTUNITY

13:15 SESSION 3

13:15	MC Opening: NICOLE ROOCKE (CEO, MRIWA)
13:20	Research Project 1 Presentation: PETE KINNY (JOHN CURTIN DISTINGUISHED EMERITUS PROFESSOR) Understanding the Mt Weld Carbonatite Mineral System - a Critical Minerals Super-Resource in Western Australia
13:35	Research Project 2 Presentation: LOUIS DE KLERK (R&D MANAGER, NORTHERN MINERALS) Microwave Reactor for Roasting of rare Earths
13:50	Research Project 3 Presentation: LINA HOCKADAY (SENIOR ENGINEER AND RESEARCH FELLOW, CURTIN UNIVERSITY) Reagents from Seawater for Upgraded Iron Ores
14:05	Research Project 4 Presentation: HENNING PROMMER (THE UNIVERSITY OF WESTERN AUSTRALIA, EKION) Next-Generation Metal Mining Using Electrokinetic In Situ Recovery
14:20	Closing Comments: NICOLE ROOCKE (CEO, MRIWA)

14:30 AFTERNOON TEA | POSTER DISPLAY NETWORKING OPPORTUNITY

15:00 MRIWA SCIENCE COMMUNICATION AWARDS 2024

15:00	MC Opening: NICOLE ROOCKE (CEO, MRIWA) Keynote: PREETI CASTLE (STRATEGIC ENGAGEMENT DIRECTOR, THE WESTERN AUSTRALIAN BIODIVERSITY SCIENCE INSTITUTE) Speaking Science and Cents
15:20	Announcement of the Science Communication Award Winners
15:50	Closing Comments: NICOLE ROOCKE (CEO, MRIWA)

16:00 NETWORKING SUNDOWNER | POSTER DISPLAY NETWORKING OPPORTUNITY

18:00 EVENT CONCLUDES



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Disclaimer: Agenda correct as per August 19 2024.