



MRIWA RESEARCH SHOWCASE

MONDAY 9 MARCH 2026

8:00AM - 6:00PM

BEAUMONDE ON THE POINT

minerals research advancing wa

08:00 REGISTRATION & COFFEE

09:00 SESSION 1 - WESTERN AUSTRALIA'S LANDSCAPE OVERVIEW

09:00	MC Introduction NICOLE ROOCKE, CEO MRIWA
09:05	Welcome to Country MATTHEW MCGUIRE
09:15	MRIWA Opening, Overview & Update NICOLE ROOCKE, CEO MRIWA
09:30	Government Address MAGENTA MARSHALL MLA
09:45	Closing Comments NICOLE ROOCKE, CEO, MRIWA

09:50 MORNING TEA | POSTER DISPLAY NETWORKING OPPORTUNITY

10:15 SESSION 2 - WA AI/ML RESEARCH IN MOTION

10:15	MC Opening & Session Overview DR GEOFFREY BATT, Research Portfolio Manager, MRIWA
10:20	Machine-Assisted Granite Mapping in the Archaean Yilgarn Craton (M10587) YONGJUN LU, Principal Geoscientist, RSC
10:35	Data Visualisation and Machine Learning for Truck Performance Prediction and Analysis (M10644) CLAYTON FRANKLIN, Founder & Chief Engineer, Electric Power Conversions Australia PATRICK NOBLE, Lead & Control Systems Engineer, Electric Power Conversions Australia
10:50	A.I. enhanced Machine Vision System for Automated Flange Bolting Robot "Boltron" (M10646) MUSHFIQ SHAH, Project Engineer, Total Marine Technology
11:05	KEYNOTE: How do you drive long term research with a short term mindset? JASON CRUSAN, CEO, AROSE
11:50	PANEL DISCUSSION: The Current State of AI and Machine Learning in WA Chair: DR GEOFFREY BATT, Research Portfolio Manager, MRIWA JASON CRUSAN, CEO, AROSE FRANCOIS LOOSE, Business Development Manager, Electric Power Conversions Australia MUSHFIQ SHAH, Project Engineer, Total Marine Technology
12:25	Closing Comments DR GEOFFREY BATT, Research Portfolio Manager, MRIWA

12:30 LUNCH

13:30 SESSION 3 - HOW AI IS RESHAPING THE MINING AND MINERALS RESEARCH SECTORS

13:30	MC Opening & Session Overview TIM WALTON, Director Research Strategy, MRIWA
13:35	KEYNOTE: The future of the resources sector in a critical decade of technology development and deployment JANIE PLANT, Chair, Women in Technology WA (WiTWA)
14:20	PANEL DISCUSSION: AI and machine learning challenges, risks and opportunities over the next 5–10 years Implications for industry, government and research CHAIR: TIM WALTON, Director Research Strategy, MRIWA JANIE PLANT, Chair, Women in Technology WA (WiTWA) YONGJUN LU, Principal Geoscientist, RSC MELINDA HODKIEWICZ, Professor of Engineering, UWA
15:05	AUDIENCE WORKSHOP TABLE ACTIVITY How will AI, machine learning and advanced analytics reshape mining over the next 10 years?
15:25	Closing Comments TIM WALTON, Director Research Strategy, MRIWA

15:30 AFTERNOON TEA | POSTER DISPLAY NETWORKING OPPORTUNITY

15:45 SESSION 4 - MRIWA PHD SHOWCASE

15:45	MC Opening & Session Overview DR MELISSA CIANFRINI, Education and Workforce Development Program Lead, MRIWA
15:50	Data Processing and Inversion for Seismic While Drilling and Mining Using Distributed Acoustic Sensing and Machine Learning EMAD AL-HEMYARI, UWA
15:55	Feasibility of effective metal recovery from tailings material via electrokinetic in-situ leaching BISHENKA MAHAULPATHA, UWA
16:00	Psychological Capital – The Last Line of Defence in Psychosocial Safety in the Mining Industry NEIL JAMES, ECU
16:05	Occupational Hygiene Dust Sampler Comparison Study in Western Australian Mining Operations BENJAMIN WALSH, ECU
16:10	Development of a Gas-Assisted Ion-Selective Membrane for Lithium-Ion Extraction from Tailings YASAMIN HAMIDIAN, ECU
16:15	Towards decarbonisation in steelmaking: Modelling and optimisation of green and sustainable metallurgical coke production from biomass MUZAMMIL KHAN, UWA
16:20	Closing Comments DR MELISSA CIANFRINI, Education and Workforce Development Program Lead, MRIWA
16:25	Research Showcase Closing Comments TIM WALTON, Director Research Strategy, MRIWA

16:30 NETWORKING SUNDOWNER | POSTER DISPLAY NETWORKING OPPORTUNITY

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Disclaimer: Agenda correct as per Jan 16, 2026