



RTCM JCU RESEARCH SHOWCASE 2026

Wednesday 12 August, James Cook University

PRESENTATIONS

Vanadium mineralisation in black shales: global characteristics and the Julia Creek-Richmond example, Queensland, Australia

Truong Le, Helen McCoy-West, Ioan Sanislav, Matt Scipione

Partners: JCU Geoscience, Engineering | Critical Minerals Group | QEM | Richmond Vanadium Technology | Velox Products | Critical Minerals Queensland

Sustainable Rare Earth Element extraction from Australian ores

Rosilene Gabas

Partners: JCU Geoscience, Engineering, Physical Sciences | NorthX | Ark Mines | Basin Energy | Sunshine Metals | Critica Limited

Characterising Rare Earth Element distribution from granitic parent rock to regolith profile of Sybella Domain, Mount Isa Province

Soham Mohanty

Partners: JCU Geoscience, Engineering, Physical Sciences | Basin Energy

Rare Earth Element mineralisation, geochemistry and evolution of the Jupiter Intrusive Complex, Murchison Domain, Western Australia

Arya Sasidharan Nair, Alex McCoy-West

Partners: JCU Geoscience, Engineering, Physical Sciences | Critica Limited

Engineering high-value nanocarbon materials from waste: processes, properties and applications

Mohan Jacob

Partners: JCU Engineering | Strategic Metals Australia

Electrifying mining operations: opportunities for clean transport, charging and energy infrastructure

Yang Du

Partners: JCU Engineering | My Energy Group

Filler-modified polypropylene macro synthetic fibres and their effect on post-crack performance of shotcrete

Hamid Nami, Elsa dos Santos Antunes, Medhdi Khatamifar, Tejas Mahesh Koushik

Partners: JCU Engineering | Danbar Plastics | Mineright

Copper stable isotopes as an exploration tool: challenges and outlook

Utpalendu Haldar

Partners: JCU Geoscience, Engineering | Anglo American | Strategic Energy Resources | AIC Mines

Coupling numerical modelling and isotopic analysis for mineral exploration: a hydrogeological approach

Erin Plato

Partners: JCU Geoscience, Engineering | AIC Mines

High-throughput neutron tomography core scanner for critical mineral resources

Alica Hoess

Partners: JCU Geoscience, Physical Sciences, Engineering | ANSTO | Terra Search | Sunshine Metals | Ravenswood Gold

Optimising the geophysical ore body model to aid discovery of critical minerals

Stuart Russell

Partners: JCU Physical Sciences, Geoscience | Anglo American | Strategic Energy Resources

Buchanans Dome critical minerals project

Ioan Sanislav

Partners: JCU Geoscience | Strategic Metals Australia

Battery Mineral Production

Mining Technology

Critical Mineral Discovery



Curtin University

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