

## RTCM TRAILBLAZER JCU RESEARCH SHOWCASE 2025

**Tuesday 5 August, James Cook University**

**Science Place 142-111**

|                 |   |
|-----------------|---|
| 1:30PM - 1:40PM | <b>Prof Jenny Sedden - Deputy Vice Chancellor Research JCU</b><br>Introduction and Welcome  |
| 1:40PM - 1:50PM | <b>Dr Vanessa Guthrie - Chair, RTCM Trailblazer</b><br>The Critical Minerals Industry - trends, prospects for research and industry collaboration   |
| 1:50PM - 2:00PM | <b>Mr Rohan MacDougall - RTCM Trailblaze Director, Curtin University</b><br>RTCM Trailblazer program overview   |
| 2:00PM - 2:10PM | <b>A/Prof Ioan Sanislav - JCU Trailblazer Lead</b><br>JCU RTCM Trailblazer overview   |
| 2:10PM - 2:20PM | <b>Ben Johns - Project Manager, Critical Minerals Queensland, Department of Resources</b><br>CMQ overview   |
| 2:20PM - 2:30PM | <b>TBD</b><br>Queensland Resources Common User Facility, Townsville   |
| 2:30PM - 2:40PM | <b>Break</b>  |
| 2:40PM - 2:45PM | <b>Dr Yang Du - JCU IoT Engineering</b><br>Off-Grid EV charging solution with cyclone-resistant solar carport for remote mining operations  |
| 2:45PM - 2:50PM | <b>Dr Rosilene Gabas - JCU Chemical Engineering</b><br>Sustainable REE extraction from Australian ores using environmentally friendly reagents, advanced characterisation techniques and geological knowledge |
| 2:50PM - 2:55PM | <b>Dr Alex McCoy-West - JCU Geoscience</b><br>Emerging technologies for advanced geochemical exploration undercover   |
| 2:55PM - 3:00PM | <b>Ms Danastri Tampubolon - JCU Physical Science</b><br>Optimizing the geophysical ore body model to aid in the discovery of new critical mineral deposits  |
| 3:00PM - 3:05PM | <b>Dr Tejas Koushik - JCU Mechanical Engineering</b><br>Development of stronger fibres to prevent mineral concentrate contamination   |
| 3:05PM - 3:10PM | <b>Ms Haiyan Li - JCU Physical Science</b><br>Fast, automated acquisition of mineral chemistry for mineral exploration  |
| 3:10PM - 3:15PM | <b>Dr Helen McCoy-West - JCU Geoscience</b><br>Optimising vanadium extraction and processing from the Toolebuc Formation through advanced characterization  |
| 3:15PM - 3:30PM | <b>A/Prof Ioan Sanislav - JCU Geoscience</b><br>High-throughput neutron tomography core scanner for critical minerals resources   |
| 3:30PM - 4:30PM | <b>SOCIAL EVENT - Skybar, Building 502</b>  |

## RTCM TRAILBLAZER UNIVERSITY TRANSFORMATION SESSION 2025

### Wednesday 6 August, James Cook University

#### Concurrent Sessions

#### Session 1

#### Engineering Innovation Place 506-117

9:55AM - 10:00AM

**A/Prof Ioan Sanislav - Trailblazer Lead JCU**  
Introduction and Welcome

#### Academic Promotion Policy and Procedures

10:00AM - 10:20AM

**Prof Damian Morgan - JCU Head of Academic Board**  
An impact-based promotion policy and procedures at JCU

**Prof Linley Lord - Curtin University, Academic Lead University Transformation**  
Promotion policy at Curtin University

10:20AM - 10:40AM

#### Round Table Discussion & Questions

#### IP Policy

10:40AM - 11:00AM

**Ms Tina Langford - Director JCU Research**  
New IP policy at JCU to promote industry collaboration and commercialization

**Mr Rohan MacDougall - Director RTCM Trailblazer**  
IP policy at Curtin University

11:00AM - 11:20AM

#### Round Table Discussion & Questions

#### Cultural Change

11:20AM - 11:40AM

**Professor Nico Adams - Associate Dean Industry & Innovation, JCU**  
Cultural change at JCU to promote industry collaboration and research commercialization

**Professor Linley Lord - Curtin University, Academic Lead University Transformation**  
Cultural Change at Curtin University

11:40AM - 12:00PM

#### Round Table Discussion & Questions

#### Session 2

#### Engineering Innovation Place 506-001

#### Commercialization

10:00AM - 12:00PM

Discussion led by:  
**Dr Denise Hodge - CEO, JourneyTech**  
**Mr Larry Lopez - Commercialization Pillar, RTCM Trailblazer Board**  
**Mr Brett Beatty - Industry Engagement Member, RTCM Trailblazer Board**

12:00PM - 1:00PM

LUNCH, Skybar