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**Vanadium
extraction
and electrolyte
production one day
masterclass**



VANADIUM EXTRACTION AND ELECTROLYTE PRODUCTION ONE DAY MASTERCLASS

Introduction

Vanadium redox flow batteries (VRFBs) are emerging as a solution to scalable, longer-duration electricity storage needs, as energy systems across the globe transition to carbon free generation of energy.

Australia has almost 20% of the world's reserves of vanadium, with investments into vanadium pentoxide precursor and electrolyte production currently totalling \$1 billion. At the same time, emerging Australian businesses are also building and installing VRFB units at grid and micro-grid scale.

Resource and technology professionals now require a deeper knowledge and understanding of the technology for vanadium extraction and electrolyte production, as well as a deep understanding of the implications of feed ingredients on material quality and the characterisation tools and techniques required for effective electrolyte manufacture.

Masterclass overview

The vanadium extraction and electrolyte production one day masterclass is presented at a time of rapidly growing interest in vanadium electrolytes and VRFBs. The masterclass will explore the battery energy storage opportunities in the transition of energy networks to carbon-free generation as well as the specific characteristics of vanadium electrolytes and VRFBs that affect their use and performance in Australian energy contexts.

Participants will gain a deeper understanding of the vanadium supply chain for use in VRFBs, and recognise extraction, refining and production trends that are increasing efficiencies. The event will also provide a valuable opportunity for vanadium electrolyte and VRFB businesses to connect with others along the supply chain.

The speakers

- **Dr Richard Macoun**, Research Director, Future Battery Industries Cooperative Research Centre
- **Professor Aleks Nikoloski**, Professor of Extractive Metallurgy, Murdoch University

Who should attend

This masterclass is designed for professional and technical operators, managers, policy makers, scientists, early career researchers and research students.

The details

9:00 am to 4:00 pm
Tuesday, 31 October 2023

Location: Boola Katitjin, Murdoch University, Perth

Cost: \$600 (incl GST), includes masterclass materials, morning tea, lunch and refreshments. (FBICRC Participants \$450, Students \$250)

Register: <https://www.eventbrite.com.au/e/692202605627>