

THIS ISSUE

Highlights for SPARC's bio-based portfolio
(HMC EcoCling to Projects Eagle & Emerald).



What We Are Working On

After 4 years of research and development, Project Adam has recently been transferred to commercialisation – branded as HMC EcoCling EP.

While this marks a huge milestone for SPARC, we wanted to highlight some of the other projects in development beyond the lubricant space, showing the diversity of our project portfolio.

Together, these initiatives reflect how SPARC is applying bio-based innovation across multiple industries and sustainability challenges.

SPARC SNAPSHOT!

Project Eagle: Bio-based collectors that improve lithium recovery while reducing wastewater contamination risk.

Project Emerald: Sustainable protective coatings moving from encouraging outdoor trials toward industrial-scale testing.

Launching the Next Chapter: A tribute to Nicola Bradford as she retires after shaping SPARC's voice and storytelling.

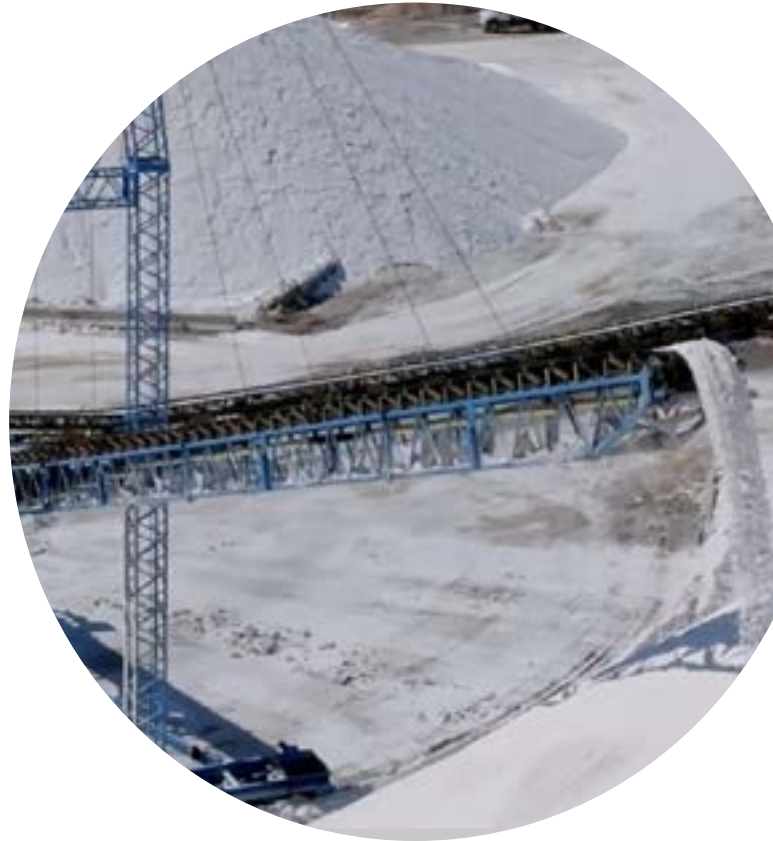
Project Eagle

Bio-based collectors to extract critical minerals

Critical minerals such as lithium are fundamental to modern industry, powering everything from energy storage and electronics, to defense and advanced manufacturing. Lithium is abundant in nature and commonly found in mineral ores, but it is difficult to extract without specialised beneficiation processes. Conventional chemicals used in the beneficiation process carry a real risk of contaminating wastewater streams, highlighting the need for more sustainable alternatives to protect the environment.

Project Eagle focuses on developing innovative bio-based collector materials designed to selectively extract lithium during spodumene flotation. In collaboration with Curtin University - Western Australian School of Mines (WASM), the project has significantly improved lithium beneficiation while tuning the chemistry to deliver more sustainable outcomes.

In addition to protecting the Intellectual Property of this new technology, we are also testing these new collectors at large, industrial scales to evaluate lithium grade and recovery beyond laboratory testing.



Enhancing the lithium beneficiation on an industrial scale will result in a clear pathway toward commercialisation.

As Project Eagle scales up, we aim to highlight that eco-friendly extraction and improved critical mineral beneficiation are NOT mutually exclusive.

Follow us on LinkedIn for updates on our progress and breakthroughs. 

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Project Emerald

Sustainable coatings for an eco-friendly future

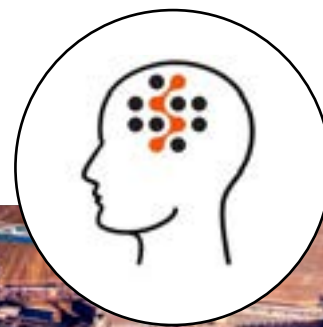
One of our newest projects, Project Emerald, is a research project at Harrison SPARC with direct pathways towards commercialisation by focusing on sustainable, bio-based metal protective coatings. Our aim is to create environmentally friendly coating solutions that can replace conventional chemical-based primer coatings while still providing protection for industrial materials.

In these early research stages, we have developed a range of bio-based formulations which we are currently working on improving. Some of these formulations have been coated on test surfaces for environmental exposure and performance studies. The early results are encouraging, with the coatings showing good protection and durability.

The project is progressing further, selecting and interrogating the most promising formulations. We're in the process of evaluating substrate adhesion of our coatings and other performance criteria. Understanding how the coatings perform and their relation to chemical properties will enable us to further develop the technology and evaluate its commercialisation potential.

If you are interested to learn more about "Sustainable coatings for an eco-friendly future" visit our projects page to learn more and see what else, we are working on.

Explore Project Emerald and our other projects here.



FUN FACT

Do you know, how much mined material the average person uses in a lifetime?

The average newborn will need ~ **1.350.000 kg** of mined material (minerals, fuels, ores) over their lifetime to maintain their standard of living.

It is a powerful reminder of how essential mining is to modern life. Explore the facts and see why it matters by checking out [this link](#).



PROJECT PORTFOLIO

Launching the Next Chapter

It's with a heavy heart that we announce that Nicola Bradford, SPARC's marketing guru, will be retiring.

For the past two years she has been the voice of SPARC helping us to craft and disseminate the work that we do to a wider audience. Prior to this, Nicola worked for 7 years with our sister company Harrison Manufacturing in Marketing and HR roles.

And while we know she'll still come around to the labs from time to time and never be too far gone, we will all miss seeing her day in and day out.

SPARC is more than just the work we do; we are the people that believe in the work and what we're growing, and we wanted to highlight Nicola and how integral she has been over the years.



“Great things in business are never done by one person; they're done by a team of people.”

Steve Jobs



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Stay tuned for exciting updates on our commercialisation journey by subscribing to our quarterly newsletter “The Creative SPARC”. At Harrison SPARC, we're committed to driving innovation, and we want you to be part of the journey. By subscribing, you'll get insights into our latest projects, developments, and milestones as we work towards bringing our innovations to life.

Don't miss out, stay informed as we make groundbreaking strides in commercialising our vision.

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