

THIS ISSUE

Celebrating 5 years of SPARC!
The journey, where we are and our horizons



CELEBRATING 5 YEARS OF SPARC!

Reflecting on our Journey:

July 1st 2021 is the day SPARC first came into being and it means that next month marks our five year anniversary. Over that time, we've gone through a tremendous amount of growth – in staff project pipeline, and laboratory and office space construction.

And like any new venture, we've had our fair share of teething pains along the way, but as the saying goes the journey is often more important than the destination. The journey has moulded us at SPARC into what we are today...

SPARC SNAPSHOT!

The Journey Thus Far: From modest beginnings to early successes - where it all began

Where We are Now: Updates and recent news from our current projects, collaborations and milestones.

The Horizon: The momentum has just begun. Looking towards our future endeavours, opportunities and projects to come.

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



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THE JOURNEY THUS FAR...

Research Grants and Commercialisation:

Over our short timeframe, we have been awarded numerous grants, with each grant driving our company's innovation, operations and most importantly making **our crazy ideas become reality**. But these grants and project pipelines have also expanded our research collaborations – because accelerating innovation isn't in a vacuum, it's through partnerships with shared vision.

Last year we were awarded \$500,000 from the Australian Commonwealth in the form of a Go Green Co-Innovation Program towards bringing new synthetic biology approaches to extreme pressure lubricants development. In collaboration with Allozymes, our Singaporean partners, Project Phoenix received funding to take our proof-of-concept work to pilot scale.

Expanding beyond grease, we developed a project looking to increase lithium extraction, one of Australia's most essential minerals, for the mining and refining space. Project Eagle saw us receive further funding from the Australian Government, in the form of a nearly \$2M Critical Minerals Development Program award in 2023. By using green chemistry and more sustainable frother materials for lithium extraction, Project Eagle aims to reduce water contamination and improve the extraction efficiency of the refining process.



5 YEARS OF SPARC

- Incorporation of SPARC
- 1st R&D Project Adam

2021

- 2nd R&D Project: Project Eagle
- Critical Minerals Grant Success: Awarded \$2M

2023

- Go-green Co-innovation Grant with Allozymes (Singapore): Project Phoenix
- Pilot plant scale-up of project Adam
- Commercialisation of SPARC EcoCling EP

2025

2022

- Business Launch
- Launch of the website

2024

- 3rd R&D project : Project Phoenix
- SPARC team expands: hires R&D chemist and marketing analyst

2026

- Manuscript submitted with WASM
- Provisional patent filed for Li frother

Technology Transfer of our first Product Line:

Earlier this year, we celebrated our first successful commercialisation - Project Adam is now marketed as EcoCling EP by our sibling company Harrison Manufacturing Company (HMC). EcoCling EP is a next-generation extreme pressure additive, improving critical components of adhesion technology in metalworking fluid lubricant systems. It marked the fruition of our business mandate, developing innovative technologies that empower tomorrow's solutions today.

WHERE WE ARE NOW

Provisional Patent Filing:

This month we successfully filed our first provisional patent for Project Eagle, our lithium-selective frother project. The filing of this provisional patent accelerates the progression of our bio-based lithium extraction technology. It's the first step in bringing this product to commercialisation, soon to be the next link in our growing IP technology chain.

Coinciding with this success is the submission of our research manuscript in collaboration with Western Australia School of Mines (WASM). This manuscript, showcasing some of the development work for Project Eagle, not only strengthens our partnership with collaborating universities, but it distils foundational research into wider industry-applicable success.



Growing our Innovation Portfolio:

This year we initiated a new project, Project Emerald, utilising sustainable raw materials to develop a novel, metal-protective coating. This project, whilst still in its infancy, has generated promising results and strengthening our potential to expand into more and more of our focus areas (construction, energy, healthcare, ag-tech, water treatment, and sustainability). The formulations we have in development have shown significant corrosion resistance and environmental protection, and we're excited to continue the research further – expanding the formulation and inherent property testing of these materials to assess their downstream benefits to the market and customers.

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THE HORIZON

New Facilities, New Opportunity:

With the construction of our new laboratory facilities underway, we expect to expand our research capacities in the approaching future. This is a significant step for the growth of SPARC, allowing us to rapidly expand the scope of projects we undertake while inviting new opportunities for collaboration, development and expansion.

SPARC-ing New Ideas:

Expanding our facilities increases the project pipeline we are expecting to expedite from their initial proof of concept phases. This includes promising initial work in renewable battery solutions with Project Mjolnir and integration of crumb rubber modifications for construction materials with Project Wheels. With several other projects waiting in the wings, the final construction approvals for the laboratory will free up a bottleneck in our pipeline that will lead to our next growth phases.

New Partnerships:

SPARC aims to continue promoting meaningful collaborations across industry and academia. Partnerships are the foundation to all our work, where all the greatest ideas develop in collaboration with others.

We are constantly growing our partnerships and collaborations and would love for anyone interested to get involved! Who knows, maybe the next crazy idea can form into something ground-breaking – together.



FUN FACT

Did you know that the Eiffel Tower grows 15 to 17cm taller every summer!

This is due to the phenomenon of thermal expansion, where metals expand in heat. Since the Eiffel Tower is entirely made of iron, the atoms within the metal expand from the heat in summer, giving this iconic monument a temporary growth spurt!



So, while this is a chance to reflect on the journey thus far, we've only just begun and the journey ahead is just as bright and invigorating as where we've been!

“The road to success is always under construction”

Lily Tomlin
Actress/ Comedian

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To our Quarterly Newsletter

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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