



Coaltech

Advancing^{the} Future
of **Sustainable Coal**

**QUARTERLY
NEWSLETTER**
AUGUST 2025





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Chief Executive Officer's Statement

Dear Coaltech Community,

The past few months have reminded me why Coaltech exists. It is not just a research platform, but a community of people who care deeply about the future of coal, our environment, and the role we all play in building a just and resilient energy future. With associate membership continuing to increase, it is clear that people are seeing value in what this community is building and want to be part of it.

Across our current portfolio of more than +20 active projects, we are making real progress. As the new research window opens, the community, through the ideation process put forward many different themes including;



In **Surface Environment**, we are thinking about rehabilitation, mine closure, water management, and biodiversity



Future Technologies' focus is on clean coal technology and energy storage, resource valorization, post mining land use, emissions management and AI and digitalisation.



In **Mining**, there's renewed interest in autonomous systems, safety innovation and extraction techniques including around geology, geotech and the management of explosives



Processing continues to focus on by-products streams, dry sorting, AI driven process control and infrastructure innovation.

Beyond research, Coaltech is stepping more firmly into the national conversation around the Just Energy Transition. We have formed strategic partnerships with organisations such as SANEDI, CSIR, and coordinated the commencement of a biodiversity project being driven by our World Bank colleagues project being driven by the CSIR World Bank colleagues.

Our recent masterclasses focused on ESG, social impact, asset transition, and legal reform. In early October, we will co-host a special session with FutureCoal, focused on a vision for coal's future, a critically important drive that requires the active engagement of all stakeholders who belief in the future of sustainable coal. The 2025/26 Call for Proposals is now open. If you have a project proposal that contributes to a more sustainable, innovative, and inclusive coal sector, I encourage you to submit. Whether you are from academia, industry, or civil society, we want your voice at the table.

The new Annual Report and Soils Handbook are available online. These publications reflect the practical, forward-looking work this community continues to deliver.

As we move into September, proposal presentations will begin, followed by presentation and evaluation sessions going into October and project outcome announcements in December.

Planning for the 2026 Colloquium is already underway. In this issue, we remember our founding Executive Director, Johann Beukes.

Coaltech wishes to congratulate the Group CEO of Seriti and a keen supporter of the work Coaltech does,

Mr. Mike Teke on his appointment as the incoming Chairman of FutureCoal. He certainly has our support. Coaltech is growing, adapting, and creating value. If you have ever wondered how to get more involved, this is your moment. Join us.

Warm regards,

Avhurengwi Nengovhela

Chief Executive Officer

The Coaltech Research Association



 **Coaltech**

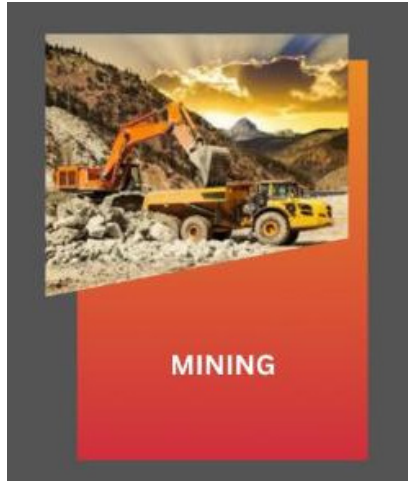




Call for proposals 2025 - 2026

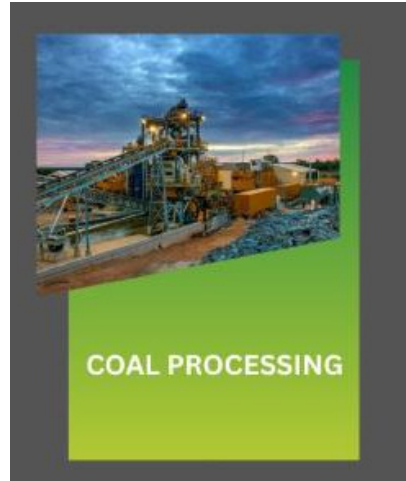
Proposal Submission Deadline: 02 September 2025

You don't need to complete both templates — Word and PDF versions have been created for your convenience, so you can choose your preferred format.



Mining

Autonomous systems, safety innovation, and extraction techniques



Coal Processing

Beneficiation, analytics, and byproduct valorisation



Surface Environment

Rehabilitation, water management, and biodiversity



Future Technologies

Resource valorisation, clean coal, and energy storage

CROSS-CUTTING ENABLERS:



AI and Digitalisation

Machine learning, data analytics, and automation



Just Transition & Social Innovation

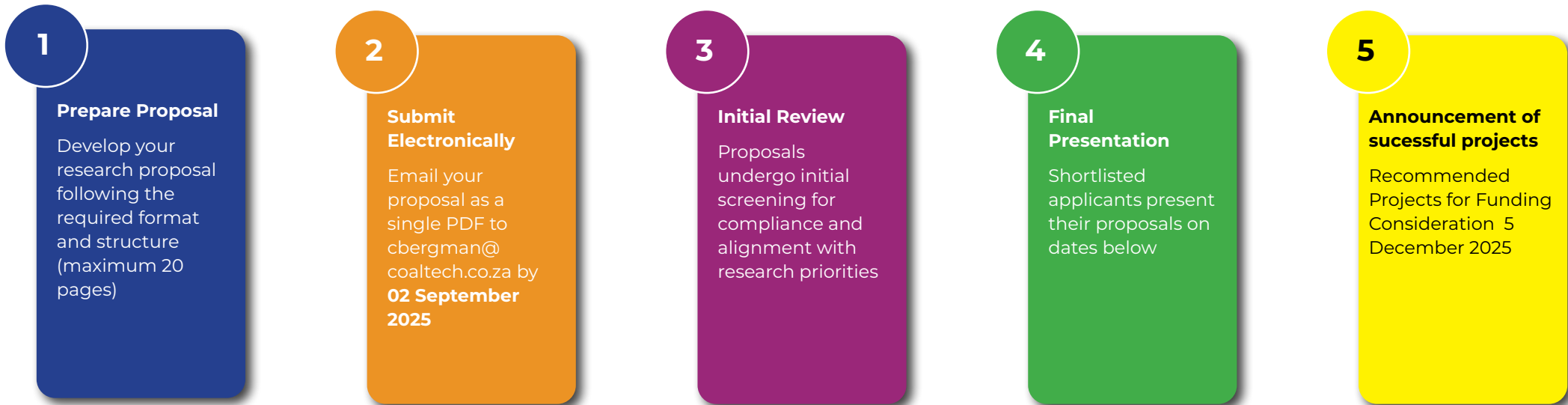
Workforce development and community economics



Important Dates & Timeline

APPLICATION PROCESS

Follow these steps to submit your research proposal



Proposal Presentation Dates





Coaltech AGM and Ideation Summit



Phillip Mulder
Chairperson

Annual General Meeting

AFS & Audit Outcome

Unqualified audit outcome and a healthy financial position for the association

- The association has delivered good financial performance in the 2024/2025 financial year, demonstrating welcomed growth across all key performance indicators.
- Financial Health
R6.5 million
Spent on research, with total assets of R20.8 million and strong cash position



Thank you to
OUR EXHIBITORS



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Celebrating Our Members



Coaltech's Annual Ideation Summit and AGM brought together leaders, experts, and innovators to set the 2026 research agenda, focusing on sustainability, resilience, and innovation in the coal sector. Keynote addresses by Mr. Mike Teke, Seriti, Tebogo Kale, Gravitas and Gary Smith, MCS highlighted coal's role in South Africa's energy mix, the importance of innovation, and technology's transformative potential. Steering committee-led ideation sessions explored priorities including autonomous systems, safety innovation, byproduct valorization, mine closure, clean coal technologies and social innovation. The event underscored that the future of coal research will be shaped through collaboration, bold thinking, and strategic action.

Coaltech extends its gratitude to MCS for their headline sponsorship and to all exhibitors and participants for their contributions. The Summit reaffirmed that the future of coal research will be built on collaboration, innovation, and decisive action.





Remembering Johann Beukes



Tribute to Johann Buekes, former CEO of Coaltech

It is with profound sadness that we share the passing of Johann Beukes, former Chief Executive Officer of Coaltech.

Johann was a respected leader in the mining and research community, who always led with integrity, humility, and vision.

He had a remarkable ability to bring people together across industry, research, and government.

Under his leadership, Coaltech grew into a collaborative and respected platform for innovation in coal research, rehabilitation, and sustainable mining practices.

He had a remarkable ability to bring people together across industry, research, and government always led with integrity, humility, and vision.

Johann will be remembered not just for his strategic insight and commitment to advancing the sector, but for the warmth and sincerity with which he treated everyone he encountered.

His legacy lives on in the many initiatives he helped shape, and in the lives and careers of those he mentored and inspired.

His passing is a profound loss to all who knew and respected him, and he will be dearly missed.



Welcoming New Members

Coaltech Welcomes Ms. Vicky van Schalkwyk



New Vice Chairperson Coal Processing SteerCom

Coaltech is excited to welcome Ms. Vicky van Schalkwyk as the new Vice Chairperson of the Coal Processing Steering Committee. With over two decades in the mining industry, Vicky brings a rare mix of technical expertise, operational know-how, and a passion for people.

“My key driver is to define, measure, analyse, implement, and control—to make processes better and safer, every single day.”

A Career Built on Results

Currently Group Metallurgist at Glencore Coal, Vicky oversees operations to ensure peak efficiency, Business improvement and productivity. Her qualifications include a Master’s degree in Business Administration and Engineering, Masters degree in Metalurgy and a Masters in the Science of Engineering, plus multiple certifications in mine health and safety, tailings management, statistics, and quality management.

She has led the commissioning of new plants, rolled out capital expansion projects, and implemented optimisation programmes that have boosted performance and product quality.

A Passion for People

Beyond operations, Vicky is committed to uplifting others. As part of the Women in Mining committee, she leads social and empowerment initiatives in the community. She has personally mentored over 20 young engineers, helping them grow into confident, capable professionals.

“Developing people is as important as developing processes.”

Her dedication to excellence and safety has earned her industry recognition, including three published technical papers and a nomination for Inspirational Leader of the Year.

Looking Ahead

With Vicky’s strategic mindset, deep technical knowledge, and strong leadership skills, Coaltech’s Coal Processing SteerCom is well-positioned to drive innovation and collaboration across the sector.

We are proud to have Ms. Vicky van Schalkwyk on board and look forward to her valuable contributions to Coaltech’s mission of advancing cleaner, safer, and more efficient coal processing solutions.

Welcome to our new Associate Members





Our Projects

Completed Projects



HELE CFB Clean Coal Technology Localisation Programme Underway

Coaltech, in partnership with CSIR, SANEDI, and Eskom, has officially commenced work on the High-Efficiency, Low-Emissions (HELE) Circulating Fluidised Bed (CFB) Clean Coal Technology Localisation Program. This landmark initiative aims to assess and localise advanced CFB technology in South Africa, supporting national energy security, industrial development, and just transition objectives.





Coaltech Masterclasses

MASTERCLASS 2025

Unlikely Allies - ESG, Sustainability & the Coal Industry

28 May 2025 | 15h00 - 16h00

Presented by: Danielle Kriel
Managing Director: GCS Water & Environment

www.coaltech.co.za

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MASTERCLASS 2025

The 2025 Mine Health & Safety Amendment Bill:

Unpacking the Legal Impact of the Mine Health & Safety Amendment Bill

Hosted by Coaltech | Virtual Event

Featuring:
Warren Beech
CEO, Beech Veltman Inc.
Mining & Energy Law Expert

25 June 2025
15:00 - 16:00 (SAST)

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MASTERCLASS 2025

Beyond the Fence: Unlocking Next-Gen Mine Closure for Walk-Away Success

Productive Post-Mining Landscapes: Reimagining Mine Closure Systems for a Sustainable End Game

Hosted by Coaltech | Virtual Event

22 July 2025
15:00 - 16:00

Featuring:
Fanus van Wyk,
Director at Agreenco

Find us on:





Meeting Dates for 2026

MONTH	COALTECH BOARD	MINING	FUTURE TECHNOLOGIES	PROCESSING	ENVIRONMENT
JAN		Tuesday 20@10:00	Thursday 29@10:00		
FEB	Friday 27@10:00			Wednesday 04@10:00	Thursday 12@10:00
MARCH		Tuesday 10@10:00	Thursday 26@10:00		
APRIL				Wednesday 01@10:00	Thursday 16@10:00
MAY	Friday 29@10:00	Tuesday 12@10:00	Thursday 21@10:00		-
COLLOQUIUM - 7 MAY 2026					
JUNE				Wednesday 03@10:00	Thursday 11@10:00
JULY	Friday 31@10:00 AGM	Tuesday 14@10:00	Thursday 23@10:00		
AUG	Friday 28@10:00			Wednesday 05@10:00 Projects Final	Thursday 13@10:00 Projects Final
SEP		Tuesday 08@10:00 Projects Final	Thursday 17@10:00 Projects Final		
OCT				Wednesday 07@ 10:00	Thursday 15@10:00
NOV		Tuesday 03@10:00	Thursday 19@10:00	Wednesday 11@10:00	Thursday 27@10:00
DEC	Friday 04@10:00 Budget Approval				

2026

 Save the date



Annual Colloquium

> 7 MAY

2026

 Coaltech

Advancing the future of sustainable coal

www.coaltech.co.za





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