



CONGRESS PROGRAMME

ICPC XXI 2025



13 - 16 OCTOBER 2025



08:00 AM TO 17:30 PM



SUN CITY CONVENTION CENTRE

TABLE OF CONTENTS

INTRODUCTION	03
EVENT OVERVIEW	04
VENUE LAYOUT	05
KEYNOTE SPEAKERS	06
SPONSORS	08
SESSION TOPICS	10
EVENT SCHEDULE	16
EXHIBITORS	32
SPECIAL ANNOUNCEMENTS	34



WELCOME TO THE ICPC XXI 2025

INTRODUCTION



The Twenty First International Coal Preparation Congress (ICPC) 2025 is the foremost event for professionals in the coal preparation industry.

Held in South Africa, this congress brings together experts, researchers, and industry leaders to discuss the latest advancements and challenges in coal preparation. With a rich history of fostering innovation and collaboration, ICPC XXI 2025 is set to be an unmissable event for anyone involved in the coal sector.

The ICPC XXI 2025 aims to provide a platform for knowledge exchange and networking among global coal preparation professionals. The congress will feature keynote speeches, technical sessions, and an exhibition showcasing cutting-edge technologies. Attendees will gain insights into sustainable practices and emerging trends shaping the future of coal preparation.

The ICPC XXI 2025 congress programme will feature more than 22 technical sessions, presented by industry experts. Attendees will take away informative, engaging and practical information covering the most important and timely issues relevant coal preparation and processing.

The ICPC XXI 2025 will bring together global experts, researchers, and industry professionals to share insights and discuss the latest advancements in coal preparation. Our goal is to promote sustainable methods that enhance efficiency and reduce environmental impact, ensuring a cleaner future for the coal industry.

The programme will be presented in English and includes delegates from Australia, Asia, Canada, China, India, Ukraine, United Kingdom, USA as well as from South Africa.

Devaraj Reddy

LOCAL ORGANISING COMMITTEE CHAIRPERSON

EVENT OVERVIEW

The Southern African Coal Processing Society (SACPS) will be hosting the 21st International Coal Preparation Congress (ICPC) from 13 to 16 October 2025 at Sun City, Northwest Province. South Africa last hosted this prestigious international congress 23 years ago.

This congress aims to bring together global coal producers, suppliers governments stakeholders, thought leaders, researchers amongst a few. In addition to the networking opportunities of the congress, the SACPS also provides industry support through education, training, knowledge sharing through our workshops, technical meetings, and biennial congresses. Funds raised in hosting the congress allows us, amongst others, to provide bursaries for post graduate studies to candidates advancing coal processing research.

WHY ATTEND

Delegates will have direct interaction with other attendees, speakers, and other sponsors, creating opportunities for meaningful connections and collaborations as well as the opportunity to meet potential clients, partners, and collaborators who are interested in your products or services.

DRESS CODE

Business attire will be suitable for the congress. The Valley of the Waves, Game Drive and BOMA evening functions we recommend casual attire and the gala banquet on Tuesday evening 14 October 2025 should be formal attire.

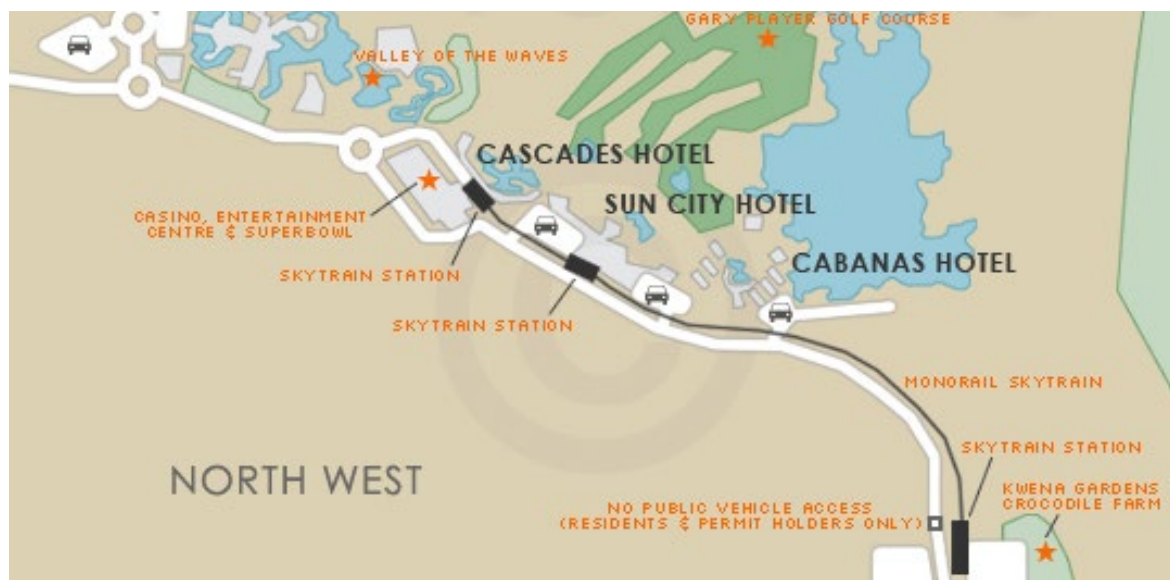
THE HIGHLIGHTS

- 3 days of an array of topics focused on coal preparation.
- Hosted by SACPS in South Africa.
- International delegates from Asia, Australia, Europe, USA and Canada.
- An exhibition running alongside the congress.
- Endorsed by South African Tourism.



VENUE LAYOUT

Located on the upper level of Sun Central, the Sun City Convention Centre offers a selection of premium venues designed for intimate or large-scale corporate events, banquets, seminars, exhibitions or team-building sessions.



KINGS BALLROOM

The main congress will be held in the Kings ballroom which is situated in the Sun City Convention Centre.

SEERS ROOMS 1 AND 2

Parallel sessions will take place in the Seers Room which is situated opposite the Kings Ballroom.

SUPERBOWL

The Coal Africa Exhibition will take place in the Superbowl which is situated in Sun Central.

THE GREENHOUSE

The Greenhouse which is the venue for the Gala Banquet on Tuesday 14 October 2025 is situated next to the Gary Player Golf Course and is accessible via the Cascades or Sun City Hotel.

VALLEY OF THE WAVES

Enter the water park from Sun Central and make your way across the Bridge of Time. The bridge erupts every hour in an exciting, theatrical display of vibrations, rumbling volcanic sounds and smoke.

KEYNOTE SPEAKERS



ALAN WALLER

CEO

RICHARDS BAY COAL TERMINAL

Alan Waller completed his articles with Deloitte and is a qualified Chartered Accountant. He held various financial positions within Mondi Craft and moved to Richards Bay Coal Terminal (Pty) Ltd ("RBCT") in 2005 where he held the position of General Manager Finance until 2016, when he was appointed to his current position of Chief Executive Officer.

PAUL BARUYA

DIRECTOR OF STRATEGY AND
SUSTAINABILITY AT FUTURECOAL



Paul joined FutureCoal in 2022, where he supports advocacy for advanced coal technologies in a carbon neutral future and the strategic role of coal in developing economies. He comes with a background in environmental consultancy at AEA Technology (now Ricardo), where he devised the New Entrant Reserve CO2 allocation for new power plants and industrial facilities and was involved in numerous projects involving end-user energy efficiency and CO2 reduction campaigns.

He also has experience in long-term forecasting and modelling of global coal and gas markets at IHS Global Insight (now IHS Markit), and energy use and emissions from power generation, steel, cement, and transport sectors.

Previous to FutureCoal, Paul was a senior analyst at the International Centre for Sustainable Carbon, a Technology Collaboration Programme of the IEA, studying the cost structures of mining, coal and gas competition in Asia, energy in Africa, and global biomass resources.

KEYNOTE SPEAKERS

VUSLAT BAYOGLU

MANAGING DIRECTOR

MENAR



Vuslat Bayoglu is the Co-Founder and Managing Director of Menar, a South African mining company with an actively managed and growing portfolio of diversified minerals, which has controlling stakes in Canyon Coal, Zululand Anthracite Colliery, Kangra and East Manganese. He holds an honours degree in Mechanical Engineering and has over 20 years of experience in the mining industry. During that period, he led the group's subsidiaries from junior to mid-tier status through organic growth and acquisitions. Bayoglu is a hands-on investor with a keen interest in bettering the South African economy. He is actively involved in seeking solutions to key issues faced by South Africa. Bayoglu also serves on the board of the Richards Bay Coal Terminal (RBCT) and recently became a director sitting on the board of FutureCoal.

OUR SPONSORS

MAIN SPONSOR



Our main sponsor, **ENPROTEC** is a global partner in the mineral processing industry, offering a diverse range of solutions and technologies meticulously combined to ensure ultimate resource recovery. Their integration of consistent research and development with their market-leading technology has led to numerous industry firsts and groundbreaking achievements.

DIAMOND SPONSORS



Exxaro has established itself as one of South Africa's largest and foremost black-empowered resources companies. They are among the top five coal producers in South Africa and a constituent of the JSE's Top 40 Index.



Menar is a South African mining company with an actively managed and growing portfolio of diversified minerals which enable modern life and a sustainable future for all. Their portfolio includes thermal coal, anthracite, manganese, and nickel.

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SESSION TOPICS

Automation, Control, and IT

The digital transformation in coal preparation involves real-time process control, machine learning, and sensor integration to monitor quality and optimize the plant. Predictive maintenance and adaptive operation are being made possible by scientific advancements in process modeling, control algorithms, and data fusion. These technologies improve efficiency, safety, and consistency throughout the coal processing industry. Integration challenges are still present in legacy systems and low-connectivity environments, especially in developing regions. The contribution of this initiative will be highlighted during the congress.

Coking Coal Processing

Precision beneficiation is necessary for coking coal to reduce ash and moisture while maintaining vitrinite content and fluidity, which is crucial for coke-making. To improve product quality, advanced float-sink analysis, petrographic studies, and froth flotation techniques are used. Processing low-rank or high-ash coal and developing alternatives for blending ratios of prime coal and semi-soft coal are among the challenges that are emerging.

Coal Resources and Industry Overview

Coal is still a crucial energy resource worldwide, with large reserves concentrated in regions like Asia-Pacific, North America, and Africa. The scientific assessment of coal involves identifying specific resources, estimating reserves, and characterizing coal types for thermal and metallurgical use. The significance of coal is beyond power generation to metallurgy, cement, and chemical production, despite the pressure of decarbonization policies. There are emerging gaps that require advanced exploration technologies, digital resource modeling, and sustainability integration in resource planning. Papers submitted to the congress intend to address these areas.



SESSION TOPICS

Crushing, Grinding, Sizing, and Screening

To prepare coal for beneficiation and enhance liberation and surface area for downstream processes, mechanical size reduction is essential. In order to reduce fines and overgrinding, the process needs to balance energy input with particle breakage mechanisms scientifically. Optimized sizing in industry can enhance separation efficiency, combustion performance, and handling. Developing intelligent, wear-resistant equipment and energy-efficient comminution systems is the goal of ongoing research, and some of these areas will be covered at the congress.

Dry Coal Processing

Dry coal beneficiation technologies like air-dense medium fluidized beds, windsifter, triboelectrical separation, and sensor-based sorting can provide a waterless solution for coal upgrading. Scientifically, these methods rely on the physical and electrostatic properties of coal and minerals, enabling separation without slurry formation. In arid regions or areas where water management is challenging, they are becoming more relevant. There remains a significant gap in the scaling of these technologies for ultra-fine coal and improving separation precision, which is why the congress needs to address it.



Environmental Impact, Climate Change, and Sustainable Development

Coal preparation contributes to environmental concerns through water use, dust, greenhouse gas emissions, and habitat disruption. Scientific research is driving low-impact technologies, emissions reduction, and carbon accounting tools within plant design. The relevance spans energy policy, ESG compliance, and community engagement, with coal companies increasingly held to climate performance standards. A key gap lies in integrating coal beneficiation into broader decarbonization frameworks and lifecycle sustainability assessments.

Fine Coal Treatment, Flotation, and Dewatering

Advanced flotation methods are employed in fine coal processing to recover high-value fines that are typically below 0.5 mm, and then they are dewatered efficiently using screens, centrifuges, and membrane filters. To enhance selectivity and recovery, scientific advances have included reagent development, column flotation, and microbubble generation. Maximizing yield and minimizing slurry waste in preparation plants is crucial in this area. There are still obstacles to economically dewatering ultra-fine coal and managing flotation tailings sustainably. There are papers that will cover these areas, providing new solutions to address the challenges mentioned above.

SESSION TOPICS

Gravity Concentration

Gravity concentration is a method that relies on specific gravity differences to separate coal from impurities, with the help of equipment such as jigs, spirals, and dense medium cyclones. The scientific effectiveness of this technique is still evident for coarse and intermediate coal sizes due to its cost-efficiency and simplicity. In industrial coal preparation, it plays a crucial role, particularly in reducing ash and improving calorific value. The congress's current research focuses on maximizing fine fraction extraction and enhancing separation processes in high-ash or near-density materials.

Innovative Coal Preparation Plant Designs

Next-generation coal preparation plants are proposed to utilize modular, compact, and energy-efficient systems to reduce water and chemical use. Scientifically, these designs integrate advanced separation techniques, e.g. the use of reflux classifiers, sensor-based sorting, and simulation-based optimization. Their industrial significance is due to their ability to improve yield, lower operational costs, and adapt to different coal qualities, especially in developing regions with infrastructure constraints. There is a significant lack of knowledge when it comes to fully integrating some of the techniques, and the congress hopes to address this gap.

Management of Washery Wastes and Effluents

Coal washing produces solid rejects and liquid effluents that are rich in fine particles and dissolved contaminants, necessitating effective treatment and disposal strategies. Various scientific techniques are used, including thickening, flocculation, mine backfilling, and effluent neutralization. Effective management is essential for ensuring environmental compliance and reducing liabilities in mining regions. The congress will focus on innovative gaps such as circular approaches to reuse washery by-products and scalable zero-discharge technologies.



SESSION TOPICS

New Opportunities and Developments in the Coal Market

The global coal market is changing as demand shifts towards high-quality thermal and coking coals, and emerging uses in carbon materials, thermal energy storage application, and rare earth recovery. Research into carbon conversion, advanced material synthesis, coal composite for building application, and fabricated soil is redefining coal's role scientifically. Markets such as the ones mentioned above offer new revenue streams and opportunities. The gap lies in integrating coal-derived products into these new value chains, and some of the solutions provided will be highlighted during the congress.

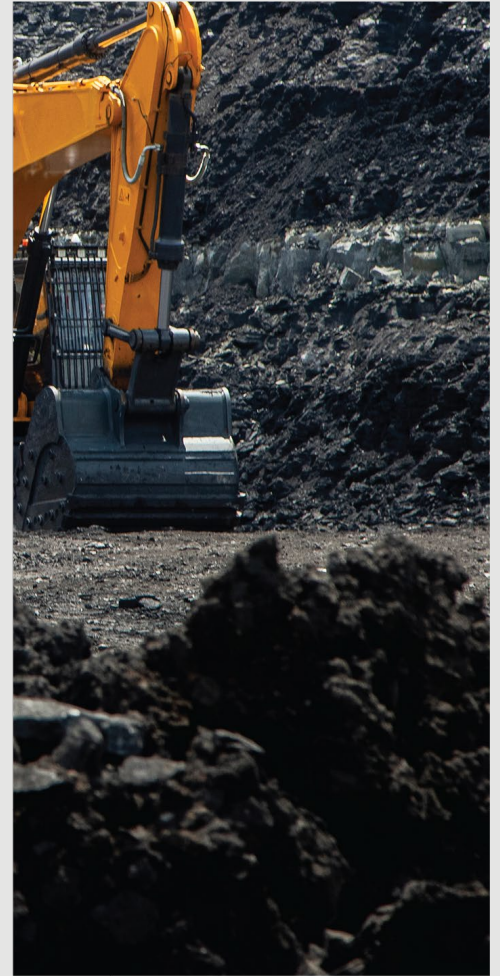
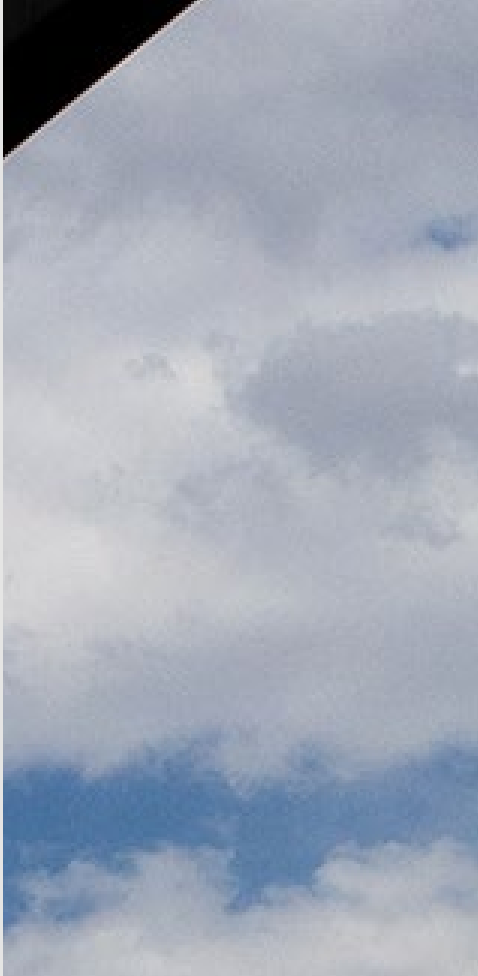
Reprocessing of Wastes

The recovery of valuable coal while mitigating environmental legacies is achieved by reprocessing rejects and tailings from old or inefficient coal plants. The scientific approach is to characterize waste material, optimize recovery through regrinding and flotation, and evaluate energy inputs. As mines seek to improve resource efficiency and land reclamation benefits, the industry is becoming more relevant. Gaps that would be addressed in this congress include economic feasibility on a scale and effective processing of highly weathered or oxidized materials.





Page 14



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EVENT SCHEDULE

Explore the future of coal preparation at ICPC XXI 2025, where industry leaders and experts converge to share insights and drive progress. Presenters to be confirmed.

DAY 1	MONDAY, OCTOBER 13, 2025
07:30 AM - 09:00 AM	REGISTRATION AND COFFEE - KINGS BALLROOM
09:00 AM - 10:30 AM	OPENING AND WELCOME - KINGS BALLROOM
SU CHUANRONG	DOUG JENKINSON MEMORIAL LECTURE - KINGS BALLROOM
10:30 AM - 11:00 AM	REFRESHMENTS BREAK - SUPERBOWL
SESSION 1 - KINGS BALLROOM: 11:00 AM -13:00 PM : NEW PLANT DESIGN	
FRIKKIE ENSLIN AND ERNST BEKKER	THE ERA OF ESG CONSCIOUSNESS AND ITS EFFECTS ON COAL HANDLING AND PROCESSING PLANTS
MARCIN LUTYŃSKI, KONRAD KOŁODZIEJ AND PIOTR PIERZYNA	INITIAL ASSESSMENT OF THERMAL AND MECHANICAL PROPERTIES OF FINE-GRAINED PROCESSING WASTE BASED MATERIALS FOR THERMAL ENERGY STORAGE APPLICATIONS
MARYKE MALAN AND BONGEKA MADOLO	MANAGEMENT OF CLARIFIER SLUDGE
ANANDJI PRASAD AND POONAM SINGHAL	ADVANCING REFORMS FOR CLEANER AND SUSTAINABLE USE OF INDIAN COAL
SESSION 2 - SEERS ROOM: 11:00 AM -13:00 PM : COUNTRY REPORTS (PARALLEL SESSION)	
DARREN MATHEWSON	AN OVERVIEW OF COAL PREPARATION IN AUSTRALIA
BARBARA ARNOLD	UPDATE ON THE US COAL INDUSTRY
MARIA HOLUSZKO	AN OVERVIEW OF THE COAL MINING AND COAL RESEARCH ACTIVITIES IN CANADA
OLEKSANDR YEHURNOV	THE PROBLEMATIC ASPECTS OF THE FUNCTIONING OF THE COAL ENRICHMENT INDUSTRY IN EXTREME CONDITIONS
13:00 PM - 14:00 PM	LUNCH IN SUPERBOWL

POWERING PROGRESS, RESPONSIBLY

At Exxaro, coal remains the backbone of our business and the anchor from which we are able to build our diversified future. In South Africa, coal is the foundation and a vital pillar of our energy security. We recognise its importance in driving economic growth and sustaining livelihoods, while also embracing our responsibility to manage its impact.

We are committed to delivering coal with purpose, mining responsibly and balancing energy needs today for tomorrow. Together, we can power progress, responsibly.

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exxaro
POWERING POSSIBILITY

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DAY 1		MONDAY, OCTOBER 13, 2025	
SESSION 3 - KINGS BALLROOM :14:00 PM - 15:30 PM : FLOTATION			
L. DIMECH, A. HARRIMAN, J. LAUDER, M. TAYLOR AND M. GOFFINET		FLOTATION IN THE AUSTRALIAN COAL INDUSTRY – RECENT DEVELOPMENTS	
NOMSA PRESCILLA BALOYI, MILTON TINYIKO RIKHOTSO AND META JONATHAN MVITA		IMPROVING LOW-RANK COAL FLOTATION USING A MIXTURE OF OLEIC ACID AND DODECANE AS COLLECTOR	
PETER J BETHELL, STEVEN A. KEIM AND JOHN NIELSON		FROTH FLOTATION AND SUBSEQUENT DEWATERING CIRCUIT OPTIMIZATION	
SESSION 4 - SEERS ROOM : 14:00 PM - 15:30 PM : WASTE PROCESSING (PARALLEL SESSION)			
HELENE-MARIE STANDER AND JENNIFER L BROADHURST		CONCEPTUALISING A REGIONALLY INTEGRATED APPROACH FOR THE VALORISATION OF COAL MINING-RELATED WASTE: A CASE STUDY IN THE MPUMALANGA PROVINCE, SOUTH AFRICA	
BIANCA BOSHOFF, JACQUES BERNER AND MARCO LE ROUX		COAL DISCARD DUMP REHABILITATION USING INDUSTRIAL PLANTS	
WEI ZHOU, YU WU, LINGLING WANG, JINBO ZHU, FANFEI MIN AND HUI WANG		STUDY ON STABILITY CHARACTERISTICS OF GANGUE MATERIALS BASED ON BELT CONVEYOR	
15:30 PM - 16:00 PM		REFRESHMENTS BREAK - SUPERBOWL	

EVENT SCHEDULE

Explore the future of coal preparation at ICPC XXI 2025, where industry leaders and experts converge to share insights and drive progress. Presenters to be confirmed.

DAY 1

MONDAY, OCTOBER 13, 2025

SESSION 5 - KINGS BALLROOM: 16:00 PM -17:30 PM : PROCESS OPERATION AND OPTIMISATION

**MENZI XULU,
NKHUMELENI TSHIONGO-
MAKGWE,
LUBABALO KUBONI AND
VICTORIA MOTHABO**

OPTIMISATION OF MX7, SX7, SX10, AND SX4 COAL SPIRALS ON SOUTH AFRICAN COAL TO PRODUCE DATA THAT CAN BE USED TO GENERATE A PREDICTIVE MODEL FOR SPIRAL PERFORMANCE

**TSIRELEDZO MALIEHE,
PAUL MORIRI,
MAYNARD LOMBARD AND
LUKE VENKATESAN**

OPTIMISATION OF THE THREE-PRODUCT CYCLONE AT GREENSIDE COLLIERY

WESLEY MEMBREY

FIVE-PARAMETER LOGISTIC FUNCTIONS FOR PARTITION CURVES

SESSION 6 - SEERS ROOM : 16:00 PM - 17:30 PM : NEW OPPORTUNITIES (PARALLEL SESSION)

WEN LEI

NEW QUALITY PRODUCTIVITY OF COAL PREPARATION PROMOTES THE DEVELOPMENT OF CLEAN AND EFFICIENT COAL UTILIZATION

**KRISHNA MURARI PRASAD
SINGH AND THONANGI
GOURI CHARAN**

STUDIES ON TECHNICAL FEASIBILITY OF WASHING OF COAL FROM WESTERN JHARIA COALFIELDS TO MEET COKING COAL REQUIREMENTS

**SHOBHANA DEY,
AVINASH SUMAN AND
GOPAL CHANDRA BISWAS**

STUDY ON EFFECTIVE UTILIZATION OF MIDDINGS AND FINES OF COKING COAL WASHERY FOR ENHANCEMENT OF CLEAN COAL YIELD

19:00 PM - 23:00 PM

DINNER - VALLEY OF THE WAVES

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Hydro Power

Energy

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PROJECT LIFECYCLE



ORIGINATE

PROJECT DEVELOPMENT

- / Early phase gap analysis
- / Mineral economics evaluation and advisory
- / Concept development
- / PEA, PFS and FS studies
- / Test work management
- / Project development
- / Trade-offs
- / Estimation and planning
- / Project risk assessment



DELIVER

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- / FEED design
- / Multi-discipline detailed engineering and process design
- / Procurement and logistics
- / Detailed design
- / Project management
- / Construction (SMP, E&I) management
- / Commissioning
- / Commercial contract management
- / Capital portfolio delivery



OPTIMISE

OPERATIONS AND MAINTENANCE

- / Operations and maintenance
- / Operational readiness
- / Management and data systems
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- / Brownfields improvements and modifications
- / Sustaining capital
- / Debottlenecking and optimisation
- / Sustainability solutions

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Enabling tomorrow.



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EVENT SCHEDULE

Explore the future of coal preparation at ICPC XXI 2025, where industry leaders and experts converge to share insights and drive progress. Presenters to be confirmed.

DAY 2		TUESDAY, OCTOBER 14, 2025	
07:30 AM - 08:15 AM		REGISTRATION	
07:30 AM - 08:15 AM		REFRESHMENTS - SUPERBOWL	
08:15 AM - 09:00 AM		KEYNOTE ADDRESS : ALAN WALLER	
SESSION 7 - KINGS BALLROOM: 09:00 AM -10:30 AM : DRY SEPARATION			
JIMMY ALADE, OREVAOGHENE ETERIGHO- IKELEGBE AND SAMSON BADA		DRY COAL BENEFICIATION OF HIGH ASH SOUTH AFRICAN COAL UTILISING A WIND SIFTER SEPARATOR	
LI TAIYOU, LIU CHUN, GE XIAODONG, WANG TIANWEI, TIAN FENG AND SHI WEICHAO		APPLICATION PRACTICE AND PROSPECT OF HIGH-PRECISION WHOLE PARTICLE SIZE DRY SEPARATION	
NIKKI HUGHES, MARCO LE ROUX, QUENTIN P CAMPBELL AND ABRAHAM F VAN DER MERWE		UNDERSTANDING AIRFLOW FOR ENHANCED SEPAIR PERFORMANCE	
SESSION 8 - SEERS ROOM : 09:00 AM - 10:30 AM : DMS (PARALLEL SESSION)			
PERVAAN PILLAY, BONGINKOSI MGWEBA AND LUKE VENKATESAN		OPTIMIZATION OF MAGNETITE RECOVERY CIRCUITS IN A NAVIGATION COAL-WASHING PLANT CHALLENGED WITH SCALING DUE TO GYPSUM FORMATION	
AJIT SWAIN, DURGA PRASAD G AND ABHA PRASAD		PERFORMANCE IMPROVEMENT OF DENSE MEDIUM CYCLONE CIRCUIT OF MOONIDIH COKING COAL WASHERY THROUGH MODELING AND SIMULATION ANALYSIS: A CASE STUDY	
DAVID WOODRUFF AND MARK CRESSWELL		THE HISTORY AND DEVELOPMENT OF CENTRIFUGAL SEPARATION IN COAL PREPARATION 1939-2025	
10:30 AM - 11:00 AM		REFRESHMENTS BREAK - SUPERBOWL	

EVENT SCHEDULE

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DAY 2
TUESDAY, OCTOBER 14, 2025
SESSION 9 - KINGS BALLROOM: 11:00 AM -13:00 PM : DRY SEPARATION

SANDRA MAGAGULA, TUMELO TLHOPILE, OWEN RADEMAN AND ERNEST SETAGANE	EXPLORING THE PERFORMANCE OF AN AIR PLANT
SHANNON McEWAN AND DION LUSINGA	SEPARATION EFFICIENCY OF XRT SENSOR SORTING TECHNOLOGY ON COARSE PARTICLE SIZE FRACTIONS IN COAL PROCESSING
J.L.WANG	THE APPLICATION PRACTICE OF CIRCLE SERIES DRY COAL SORTER IN PINGTIAN REJECT HILL OF SHANJIAOSHU MINE
LI GONGMIN, SHENG JIANZHONG AND LI ZHIMING	RESEARCH ON DRY SEPARATION PROCESS OF ZAMBIAN THERMAL COAL

SESSION 10 - SEERS ROOM : 11:00 AM - 13:00 AM : DEWATERING AND TAILINGS (PARALLEL SESSION)

LI YIHONG, SHA JIE, HE ZHAOSU AND WEI QI	RESEARCH ON DEHYDRATION OF LOW-RANK COAL BASED ON HIGH PRESSURE STEAM INSTANTANEOUS RELEASE
TOBIE LOFTUS	RETREATMENT AND BENEFICIATION OF WEATHERED MATERIAL FROM A COAL TAILINGS STORAGE FACILITY: A CASE STUDY
VILENCIA PARSARAMAN, CHANDRANATH BANERJEE AND LERATO RAMANALA	CAVEX® HYDROCYCLONE: A SUSTAINABLE INNOVATION FOR TRANSFORMING MINING EFFICIENCY
LI CHEN, SHI GAO, HONGBIN TIAN, WEI ZHOU AND LONG LI	RESEARCH AND APPLICATION OF INTELLIGENT FEEDBACK AND PRECISION CLEANING SYSTEM FOR FILTER PRESS OPERATION CONDITIONS
13:00 PM - 14:00 PM	LUNCH IN SUPERBOWL

DAY 2**TUESDAY, OCTOBER 14, 2025****SESSION 11 - KINGS BALLROOM: 14:00 PM -15:30 PM : FINES PROCESSING**

META JONATHAN MVITA AND NOMSA PRESCILLA BALOYI	SYNERGISTIC OPTIMISATION OF FINE COAL OIL AGGLOMERATION USING RESPONSE SURFACE METHODOLOGY AND RANDOM FOREST COUPLED WITH DECISION TREES
MANDY-JANE SEBOLA, DALE MCLEAN AND MASEDA MPHAPHULI	BINDERLESS BRIQUETTING OF BENEFICIATED FINE DISCARD COAL FROM THE WITBANK COALFIELD
SWARUP KUMAR DATTA, SUBHAM GOEL AND JAI PRAKASH PATEL	MONETIZATION OF OLD WASHERIES DRIVING TOWARDS SUSTAINABLE COKING COAL SECTOR IN INDIA

SESSION 12 - SEERS ROOM : 14:00 PM - 15:30 PM : DEWATERING AND TAILINGS (PARALLEL SESSION)

DALE HOFFMANN, CHRIS NETHERCOTT, MATTHEW KELLY, MITCHELL BOND AND RYAN TAYLOR	LIDAR OPTIMISATION OF BELT PRESS FILTER FLOCCULANT DOSING
JÜRGEN HAHN	TWO PERCENT POINTS LESS MOISTURE WITH XL-TYPE HIGH-PERFORMANCE VACUUM DISC FILTERS
BAO ZHEN, YUE SHUAIJUN, GAO YANJUN, YU FENG, SUN YU AND GOU XIAODONG	INTELLIGENT COORDINATED CONTROL DESIGN OF FILTER PRESS UNITS BASED ON DCS AND PROCESS EXPERT SYSTEMS
15:30 PM - 16:00 PM	REFRESHMENTS BREAK - SUPERBOWL

EVENT SCHEDULE

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DAY 2

TUESDAY, OCTOBER 14, 2025

SESSION 13 - KINGS BALLROOM: 16:00 PM -17:30 PM : FINES PROCESSING

**ANGGA HERMAN,
GEOFFREY ORR,
HOMIE THANASEKARAN,
ROWAN VEDELAGO AND
MATTHEW BEHRE**

COST-EFFECTIVE ALTERNATIVE FOR ULTRA-FINE COAL RECOVERY

**CHRISTINA RAMOTSABI,
MARCO LE ROUX AND
QUENTIN P CAMPBELL**

THE EVOLUTION OF SPIRALS IN THE COAL FINE CIRCUIT: A REVIEW

**BAOJIE ZHANG AND
YOGESH REJA**

ADVANCEMENTS IN STATIC SCREEN TECHNOLOGY FOR ENHANCED COAL PROCESSING APPLICATIONS

SESSION 14 - SEERS ROOM : 16:00 PM - 17:30 PM : DEWATERING AND TAILINGS (PARALLEL SESSION)

**TSAKANI NKOLELE,
GLENN SHERRITT,
ANTHONY WILLIAMS AND
ANDREW MEYERS**

DATA DRIVEN INFRASTRUCTURE STRATEGIES IN COAL PREPARATION

GAVIN MARÉ

TAILINGS DEWATERING AND DRY DISPOSAL: CASE STUDIES OF THE SUCCESSFUL APPLICATION OF FULL-FUNCTION, AUTOMATED FILTER PRESSES

**MULWELI YOLANDA
MAFUKATA,
BONGINKOSI MGWEBE
AND PERVAAN PILLAY**

TREATMENT OF ACID MINE DRAINAGE WATER AT THE BLAAUWKRANZ SOUTH DISCARD FACILITY

18:30 PM - 22:00 PM

GALA BANQUET -SUN PARK

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EVENT SCHEDULE

Explore the future of coal preparation at ICPC XXI 2025, where industry leaders and experts converge to share insights and drive progress. Presenters to be confirmed.

DAY 3		WEDNESDAY, OCTOBER 15, 2025	
07:30 AM - 08:15 AM		REGISTRATION AND COFFEE	
08:15 AM - 09:00 AM		KEYNOTE ADDRESS : PAUL BARUYA	
SESSION 15 - KINGS BALLROOM: 09:00 AM -10:30 AM : NEW OPPORTUNITIES			
MARK CRESSWELL		MASS BALANCING FOR COAL PROCESSING PLANT DESIGN	
MARCIN LUTYŃSKI AND WOJCIECH URBAŃCZYK		MOBILE TECHNOLOGY FOR COAL RECOVERY AND LAND RESTORATION IN ACCORDANCE WITH CIRCULAR ECONOMY APPROACH	
MANDY-JANE SEBOLA, DALE MCLEAN AND PHILIPPA NOTTEN		CREATING A SUSTAINABLE COAL MINING VALUE CHAIN FROM SOUTH AFRICA’S HISTORICAL AND ARISING DISCARD COAL	
SESSION 16 - SEERS ROOM : 09:00 AM -10:30 AM : MATERIALS HANDLING (PARALLEL SESSION)			
ZHIYONG LI, KAIXUAN YAO AND QISHUO SHI		STUDY ON DUST REDUCTION AT SOURCE TECHNOLOGY BASED ON COAL PARTICLE MOVEMENT CONTROL	
KARABO MALEKUTU, FRANCO VAN DE VENTER, YORKABEL FEDAI, MPHO RAMUDZWAGI, LUKE VENKATESAN AND MICHAEL PHALI		EVALUATING THE APPLICATION OF THE OPTIMA® CLASSIFIER AS A SECONDARY BENEFICIATION STAGE AT THE PHOLA COAL PROCESSING PLANT	
PRASAD KOPPARTHI, D SACHINRAJ, ASHWINI KUMAR, AMIT JAIN AND SURYA PRATAP SINGH		A COMPARATIVE CLASSIFICATION EFFICIENCY OF HYDROCYCLONE AND HIGH FREQUENCY SCREEN – AN EXPERIMENTAL STUDY	
10:30 AM - 11:00 AM		REFRESHMENTS BREAK - SUN CITY CONVENTION CENTRE	

DAY 3**WEDNESDAY, OCTOBER 15, 2025****SESSION 17 - KINGS BALLROOM: 11:00 AM -13:00 PM : OPTIMISATION AND SIMULATION****MPHO RAMUDZWAGI,
NKUMELANI TSHIONGO
AND
WILLIE NHETA**MODELLING AND OPTIMISATION OF A HYDROCYCLONE
CLASSIFIER AS A PRE-TREATMENT STAGE IN FINE COAL
BENEFICIATION**YAN ZHANG AND
XIUFENG ZHANG**DEVELOPMENT AND APPLICATION OF DIGITAL TWIN TECHNOLOGY
IN SMART MINES**CHUNYU LIAN AND
YU ZOU**DESIGN AND APPLICATION OF UNATTENDED INTELLIGENT
MEDIUM ADDING SYSTEM**PEACE MAHLANGU,
THABO NHLAPHO,
THABANG SKALKIE,
HANNES ESTERHUIZEN
AND LUKE VENKATESAN**

FINES CIRCUIT PERFORMANCE EVALUATION

**SESSION 18 - SEERS ROOM : 11:00 AM - 13:00 PM : MATERIALS HANDLING (PARALLEL
SESSION)****MELANIE MACKAY,
MARIA HOLUSZKO,
JASON HALKO,
HEATHER DEXTER AND
VEENA BHARDWAJ**PRELIMINARY EVALUATION OF HALOCARBON OIL'S IMPACT ON
METALLURGICAL COAL QUALITY**ELIJA MOLETSANE,
QUENTIN P CAMPBELL
AND MARCO LE ROUX**MEASURING THE EFFECT OF BREAKAGE MODE AND TOP SIZE ON
COAL LIBERATION USING THE RHOVOL DENSIMETRIC ANALYSER**KATHERINE SEIDEL AND
BARBARA J ARNOLD**A REVIEW: HYDROPHOBICITY AND SURFACE CHARGE OF COALS
AND COAL-ASSOCIATED MINERALS**YANG RUIFENG,
ZHANG YAN AND
WEI ZHONGKUAN**INVESTIGATION ON THE MECHANISM OF ACTION OF Ca^{2+} IN THE
CONDITIONING OF COAL SLURRY**13:00 PM - 14:00 PM****LUNCH - SUN CITY CONVENTION CENTRE****14:00 PM - 22:00 PM****GAME DRIVE AND BOMA DINNER**

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committed to
your future.**

ICPC EXPL Congress Programme

At the heart of Multotec is a commitment to global investment in the people, processes and places that drive the mineral processing industry forward.

With 50 years behind us, we will continue to partner with our industry, the people in it and the people it serves.

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EVENT SCHEDULE

Explore the future of coal preparation at ICPC XXI 2025, where industry leaders and experts converge to share insights and drive progress. Presenters to be confirmed.

DAY 4		THURSDAY, OCTOBER 16, 2025	
07:30 AM - 08:15 AM		REGISTRATION AND COFFEE	
08:15 AM - 09:00 AM		KEYNOTE ADDRESS : VUSLAT BAYOGLU	
SESSION 19 - KINGS BALLROOM: 09:00 AM -12:00 PM : OPTIMISATION AND CONTROL			
DAVIS PHASHA, IRVIN VILAKAZI, MARTHA GWAMBE AND LUKE VENKATESAN		MODULAR MISPLACEMENT INVESTIGATION JOURNEY AT BANK 2 COAL WASHING PLANT	
J.M. FAIRBAIRN-STEWART AND P. RAMSAYWOK		CASE STUDY: FROM BENCHES TO ZONES: UNLOCKING THE POTENTIAL OF A COMPLEX COAL RESOURCE WITH PYTHON AND LIMN MODELLING	
PETER HAND AND DAVID WISEMAN		THE LIAISON BETWEEN MINE PLANNING, COAL PROCESSING AND MARKETING IN A LIFE OF MINE (LOM) PLAN	
RAJESH KUMAR AND NISHANT RISHAV		DRIVING SELF-SUFFICIENCY IN COKING COAL: INNOVATIVE APPROACH TO OPTIMISE INDIGENOUS RESOURCES AND REDUCE IMPORT	
CHRISTOPHER CLARKSON, DALE HOFFMANN AND RIZA ROMERO		OPTIMISING PLANT DESIGN USING PLANT FEED AND LD CORE DATA	
JAYANT PRASAD, ABHA PRASAD AND SATISH KUMAR JHA		CHPP DESIGN AND PROCESS SELECTION FOR HIGH ASH COAL OF MOATIZE BASIN IN ZAMBEZE PROJECT, MOZAMBIQUE	
12:00 PM - 13:00 PM		CONGRESS CLOSURE	
13:00 PM - 14:00 PM		LUNCH - SUN CITY CONVENTION CENTRE	

EVENT SCHEDULE

Explore the future of coal preparation at ICPC XXI 2025, where industry leaders and experts converge to share insights and drive progress. Presenters to be confirmed.

DAY 4
THURSDAY, OCTOBER 16, 2025
SESSION 20 - SEERS ROOM : 09:00 AM - 12:00 PM : PROCESSING (PARALLEL SESSION)

RAN ZHANG, NAWOONG YOON, LIANG HUI LI AND MARIA HOLUSZKO	PREDICTING WASHABILITY USING A REGRESSION OF ASH CONTENT WITH CONTROLLED ROCK TO COAL MIX RATIO SPECIMEN USED FOR CALIBRATION
LIQIANG ZHANG	RESEARCH AND FIELD APPLICATION OF THE THREE-PRODUCT HEAVY MEDIUM CYCLONE
FRIKKIE ENSLIN AND ERNST BEKKER	BEYOND BESSEMER: THE PAST, PRESENT AND FUTURE OF DENSE MEDIUM SEPARATION IN THE COAL INDUSTRY
HONGJUN YUAN	RESEARCH AND APPLICATION OF HIGH-EFFICIENCY BENEFICIATION PROCESSES, EQUIPMENT AND INTELLIGENT KEY TECHNOLOGIES FOR COAL PRONE TO MUDIFICATION AND DIFFICULT TO WASH
CHRISTIAN STOUDT, CHASE GLEASON AND BARBARA ARNOLD	FINE COAL WASHABILITY ANALYSIS USING A LABORATORY CONCENTRATING TABLE: G. WILLIAM KALB UNDERGRADUATE RESEARCH FELLOWSHIP PROJECT
LIU WENTONG, LIU PENG, BAI RUI, HE GUOFENG, PAN GUANGHONG, SU ZHIJIANG, CHEN QUANBIN, ZHANG XINXI, YANG ZHONGFU, WANG YONGGUI, YUAN JIAQING, MA XIAOLAN, YANG GUANGMING, MA HAIYAN, GAO JING, FANG YUAN, XU YINGJIE	OVERVIEW OF THE STUDY ON THE PROPERTIES OF ULTRAFINE COAL PARTICLES AND THE PREPARATION OF ULTRA-CLEAN COAL
12:00 PM - 13:00 PM	CONGRESS CLOSURE
13:00 PM - 14:00 PM	LUNCH - SUN CITY CONVENTION CENTRE



EXHIBITORS

The Coal Africa exhibition will take place in the Sun City Superbowl from 13 - 14 October 2025

Day 1: 13 October 2025 - 10:00 - 18:00

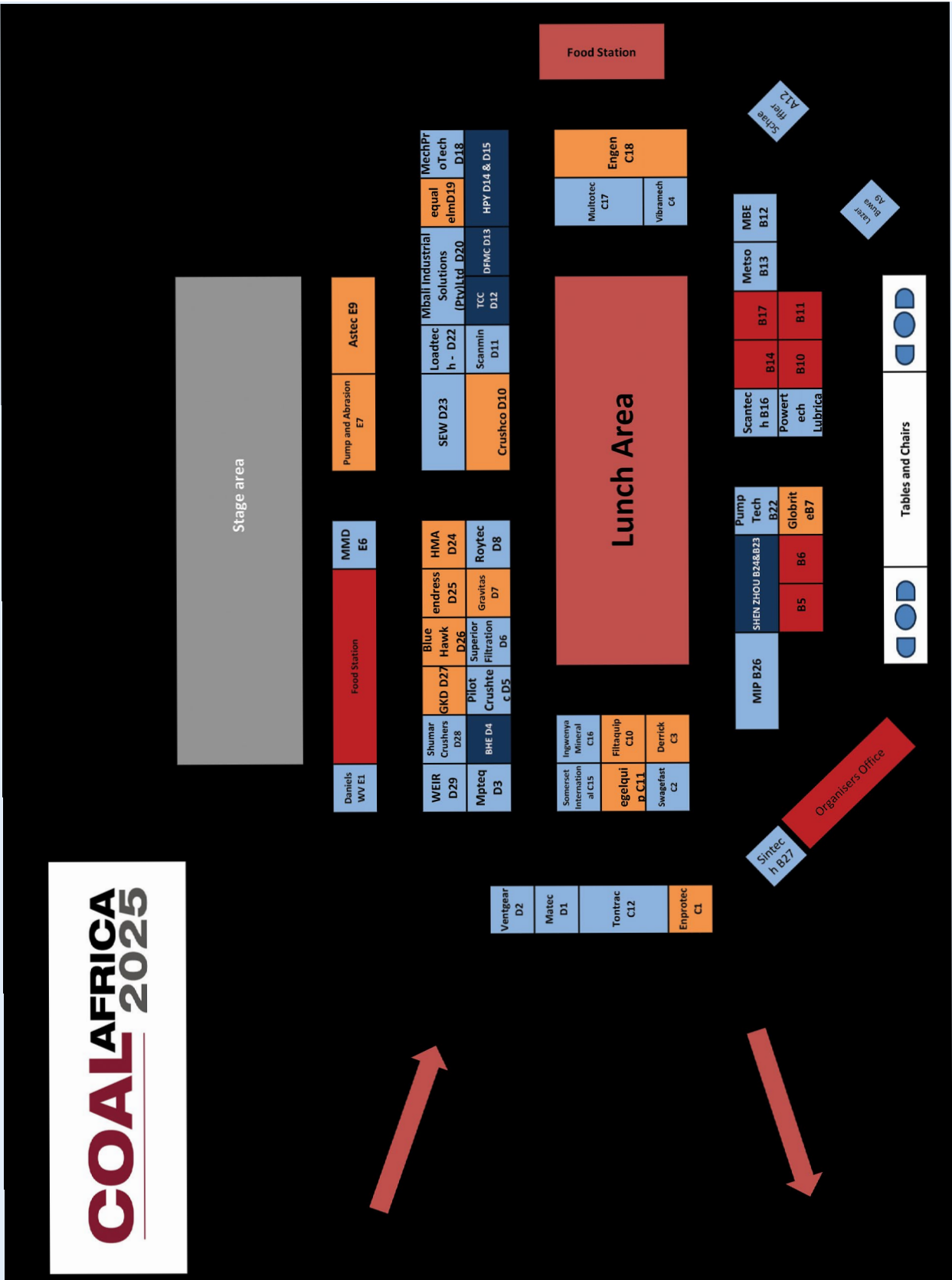
Day 2: 14 October 2025 - 07:30 – 18:00



Exhibitors (in alphabetical order) are as follows:

Astec Industries	Metso
Beijing Huayu Engineering Co., Ltd. , CCTEG	MIP Process Technologies
Bluehawk Tactical	MMD Africa
China National Coal Association	MPTEQ
Crushco Coal Crushers	Multotec
Crushing Solutions	Pilot Crushtec International
Derrick Africa	Powertech Lubricants
Dongfang Measurement and Control Technology Co. Ltd	Pump and Abrasion Technologies
Egelquip	PumpTech
Endress+Hauser	Roytec Global
Engen Petroleum	Scanmin Africa
Enprotec SA	Scantech International
Equal ELM Trading	Schaeffler South Africa
Filtaquip	SEW
GKD Africa	Sintech
Globrite Fire Services	Somerset International
Gravitas Minerals	Superior Filtration
HMA Wear Solutions	Swagefast
HPY Finlay Technology (Hefei) Co. Ltd	Tangshan Shenzhou Manufacturing Group Co., Ltd
Ingwenya Mineral Processing	The Daniels Company
Lazer Buwa	Tontrac
Loadtech	Top Crusher Co., Ltd
Matec RSA	Vent Gear and Pump Services
Mbali Industrial Solutions	Vibramech
MBE Minerals	Weir Minerals Shared Services
MechProTech	

EXHIBITORS FLOORPLAN



SPECIAL ANNOUNCEMENTS

A post conference tour will take place on Friday 17 October 2025 at Exxaro's Grootegeluk Mine in Lephalale. This coalfield is estimated to contain between 40 and 50% of SA's remaining coal reserves. Conventional wisdom is that the future of SA coal mining depends on the development of this extensive deposit of coal surrounding the town of Lephalale.

The South African coal industry comprises well over 50 collieries ranging from 200 000 tpa ton over 40 Mtpa, mainly open cast with a few underground operations. Geographically they are in the northeast of South Africa, covering three provinces Limpopo, Mpumalanga and KwaZulu Natal (KZN). They are accompanied by a similar number of coal processing plants ranging in size from 100 to 10 000 t/hr multi-modular plants.

The coal deposits are of Southern Hemisphere Gondwana origin and have typical characteristics of relatively high ash, low sulphur, and very high amounts of near-dense material.

MEDIA PARTNER

Creamer Media's Mining Weekly is the authorised media partner for the ICPC XXI 2025.



SAFETY & HEALTH GUIDELINES

The congress, exhibition and social events will adhere to the health and safety guidelines of Sun City.

SOCIAL MEDIA ENGAGEMENT

Photos of keynote speakers, presenters, exhibitors and evening functions will be shared on the social media platforms of the Southern African Coal Processing Society.

PARTNERS PROGRAMME

Details of partners programme options can be found on the ICPC XXI website.

PHOTO AND MEDIA NOTICES

There will be an official photographer taking photos at the congress as well as the social functions.

TRANSPORTATION REMINDER

The cost of a pre-paid and pre-booked transfer between OR Tambo International Airport and appointed accommodation in Sun City or vice versa will cost R2990.00 per person, per transfer. Transfers after the congress will be from Sun City to OR Tambo International Airport. Details are on the ICPC 2025 website.

SPECIAL ANNOUNCEMENTS

CPD ACCREDITATION

The ICPC XXI 2025 conference has been accredited for the Engineering Council of South Africa (ECSA) Continuing Professional Development (CPD). All registered delegates who participate in the conference will be eligible to receive an official CPD certificate.

The allocation of CPD points will be based on the total number of hours attended over the four-day programme. To ensure accurate verification, attendance will be recorded daily through a CPD registration form. Attendees are therefore encouraged to complete the sign-in process each day and at each session to secure their CPD credits.

Certificates will be issued electronically after the conference, once attendance records have been verified.





THANK YOU FOR JOINING US

We would like to thank you all for joining us at the ICPC XXI 2025 at Sun City 13 - 16 October 2025

From the Local Organising Committee

Devraj Reddy (Chairperson)

Samson Bada

Vumeka Buthelezi

Quentin Campbell

Peter Hand

Jayson Jacobs

Tebogo Kale

Marco Le Roux

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