



9TH SULPHUR AND SULPHURIC ACID CONFERENCE | 2025

26 MAY 2025 - WORKSHOP
27-28 MAY 2025 - CONFERENCE
29 MAY 2025 - TECHNICAL VISIT

PROTEA HOTEL STELLENBOSCH AND
CONFERENCE CENTRE, STELLENBOSCH

Final Programme

Monday, 26 May 2025

Pre-Conference Workshop

**Workshop is separately bookable*

08:00-12:00 **Workshop 1 BASF: How to get the most out of your sulphuric acid catalyst**



Programme

- Introduction to BASF and BASF Catalysts and Adsorbents
- Sulphuric Acid – the largest commodity chemical
 - Chemistry of sulphuric acid making
 - Evolution of sulphuric acid plants
- The sulphuric acid catalyst
 - Catalytic mechanism of SO₂ oxidation
 - Catalytic composition
 - Catalyst shaping at BASF and shape geometry benefits
 - Catalysts for special tasks

Break

- BASF Sulphuric Acid Catalyst portfolio and use
- Maximising catalyst lifetime & performance
 - Performance optimisation during campaigns and in between shutdowns
 - Pressure drop increase and ways to reduce it
 - Catalyst poisons and the risk they pose to the campaign lifetime

• Q&A

12:00-13:00 **Lunch**

13:00-17:00 **Workshop 2 Topsoe: Wet Gas Sulphuric Acid (WSA) technology**
TOPSOE **TOPSOE**
Making Energy Transition

Programme

- Introduction Topsoe and agenda
- General introduction to WSA technology
 - Basic principles
 - History and development, e.g.

- From salt to gas/gas heat exchangers
- WSA Condenser
- Electrical acid mist control
- CleanSET™ for tail gas polishing
- Application/industries
- Achievable emission reduction and acid quality
- Plant availability

Break

- Focus on WSA in the metallurgical industry
 - Lay-out of WSA plant, flowsheet walkthrough
 - Equipment in WSA plants
 - Handling fluctuating flows and SO₂ content
 - Important considerations in operating a WSA plant
 - Lessons learnt from WSA plants in the metallurgical industry
 - Catalyst loading and screening, operator requirements, lab analysis

Break

- Project execution from Topsoe
 - Timeline, engineering and HW supply
 - Quality assurance of engineering and HW supply
 - Topsoe support during commissioning, start-up and GTR
- Topsoe support after start-up
 - Technical Service department
 - Digital services, ClearView™, supporting cooperation

17:00-19:00 **Welcome Networking Cocktail and Early Conference Registration**
(All delegates welcome)





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Conference Day 1 - Tuesday, 27 May 2025

08:30-09:00	Registration and Early Morning Refreshments	11:55-12:05	Sponsor Presentation HATCH HATCH
09:00-09:05	Welcome and Opening Address T. Claassens, <i>Metso South Africa (Pty) Ltd, Conference Chairperson</i>	12:05-13:05	Lunch
09:05-09:10	Safety Briefing Venue Official	Session 3:	
09:10-09:25	SAIMM Presidential Address E. Matinde, <i>SAIMM President, South Africa</i>	Session Chair: S. Sackett, <i>Southern African Perspectives, South Africa</i>	
Session 1:		13:05-13:25	Expanding the capacity of your sulphuric acid plant T. Vanderwalt, <i>Elessant, South Africa</i>
Session Chair: T. Claassens, <i>Metso South Africa (Pty) Ltd</i>		13:25-13:45	Challenges in sulphur melting and purification process for the sulphuric acid industry J. Hermans, <i>Sulphurnet, The Netherlands</i>
09:25-09:55	Keynote Address: Acid test: The future of sulphur and sulphuric acid F. Gordon, <i>Acuity Commodities, United Kingdom</i>	13:45-14:05	Understanding the sulphuric acid catalyst properties and reaction resistances in the SO₂ oxidation – and their implications for catalyst design and selection C. Frandsen, <i>Topsoe, Germany</i>
09:55-10:15	Regional growth prospects for acid S. Sackett, <i>Southern African Perspectives, South Africa</i>	14:05-14:25	Maintenance and servicing of LEWIS® pumps equipment I. Metin, <i>Weir Minerals, Turkey</i>
10:15-10:25	Sponsor Presentation Begg Cousland Begg Cousland World Class Filtration Solutions	14:25-14:45	Digital solutions for maximum efficiency T. Claassens, <i>Metso South Africa (Pty) Ltd, South Africa</i>
10:25-10:45	Mid-Morning Refreshments	14:45-15:15	Ice Breaker Quiz
10:45-10:55	Sponsor Presentation WEIR WEIR Being technology is a sustainable idea	15:15-15:45	Afternoon Refreshments
Session 2:		15:45-17:00	Time at Leisure
Session Chair: J.E. Willersinn, <i>BASF, Germany</i>		17:00-17:30	Buses to depart from conference centre to dinner venue
10:55-11:15	Extending campaign lifetime and converter reliability with BASF's cutting-edge sulphuric acid catalyst technologies J. Willersinn, <i>BASF, Germany</i>	18:00-21:00	Conference Dinner (All delegates welcome)
11:15-11:35	Capacity and uptime boost: Optimising sulphuric acid plant from 2200 to 3000 MTPD P. Foith, <i>CS Combustion Solutions GmbH, Austria</i>	21:00-21:30	Buses Depart to Conference Venue
11:35-11:55	Experience in revamping existing sulphuric acid plants to increase production capacity V. Igin, E. Grabun, D. Dolgov, <i>JSC NIUIF, Russia</i>		



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Conference Day 2 - Wednesday, 28 May 2025

- 08:30-09:00 **Registration and Early Morning Refreshments**
- 09:00-09:05 **Welcome and Opening Address**
T. Claassens, *Metso South Africa (Pty) Ltd, Conference Chairperson*
- 09:05-09:10 **Safety Briefing**
Venue Official

Session 4:

Session Chair: T. Vanderwalt, *Elessent, South Africa*

- 09:10-09:40 **Keynote Address: TBC**
W. Thomas, *BASF Metals, UK*
(Online Presentation)
- 09:40-10:00 **How to successfully run a four-year acid plant campaign**
B. Mumba, T. Mwanza, P. Ng'ambi, *Kansanshi Mining PLC, Zambia*
- 10:00-10:20 **Zimplats SO₂ abatement plant design**
S. Matutu¹, J. Bezuidenhout², G. Erasmus², ¹*Zimplats, Zimbabwe*, ²*Hatch, South Africa*

10:20-10:40 **Mid-Morning Refreshments**

10:40-10:50 **Sponsor Presentation**
Clark Solutions 

10:50-11:00 **Sponsor Presentation**
Integrated Chemical Solutions 

11:00-11:20 **Is an acid plant overdue in Namibia to cater for the envisaged demand from upcoming uranium projects?**
P. Aluvilu¹, H. Katty², D. Garrard³
¹*Pamwe Royalties and Streaming (Pty) Limited, Namibia*, ²*Punto De Vue Holdings (Pty) Limited, South Africa*
³*Pamwe Mining Fund (Pty) Limited, South Africa*

11:20-11:40 **State-of-the-art sulphuric acid making – platinum promoted honeycomb ceramics on the way to opex and capex reduction**
P. Piantino, J. Hofer, A. Sigg, *P&P Industries AG, Austria*

11:40-12:00 **Sulphuric acid recovery using nanofiltration: Boosting efficiency, sustainability, and ESG alignment in hydrometallurgy**
T. Coetzee¹, D. Verwey², ¹*Memcon*, ²*BME Metallurgy, South Africa*

Session 5:

Session Chair: S. Colley, *BASF, South Africa*

12:00-12:20 **Innovative energy recovery in existing sulphuric acid plants**
E. Almeida, *Clark Solutions, Brazil*

12:20-12:30 **Sponsor Presentation**
Wylton (China) Chemical Co Ltd 

12:30-13:30 **Lunch**

13:30-13:50 **Highly sophisticated gas cleaning systems for roasting plants optimised with digital solutions**
K. Knabel, *Metso, Germany*

13:50-14:10 **A new era of alloy tower in the sulphuric acid industry**
T. Vanderwalt, *Elessent, South Africa*

14:10-15:00 **Conference Close and Afternoon Refreshments**