

Wednesday April 22nd

17.30-19.00 **Registration and drinks reception, with hot and cold canapés**
Accompanying guests welcome

Thursday April 23rd

08.00 Registration desk opens
Light breakfast, tea, coffee and fruit juice

09.00 Welcome to Mineral Processing Circuits '26
J. Wills (MEI, UK)

09.10 *Technical Session 1*
Chairpersons: P. Miller (BacTech Environmental Corp., Canada) and A. Hubert (Köppern Aufbereitungstechnik GmbH & Co., Germany)

09.10 **Keynote Lecture: A new paradigm for mineral processing circuits – what might underpin the philosophy?**
K.P. Galvin (University of Newcastle, Australia)

09.40 **Flowsheet design for the recovery of rare earth minerals from an iron-dolomite-carbonatite deposit**
M.C. Vila, M.L. Dinis, K. Amancio, A.C. Silva, A. Magane (University of Porto, Portugal), C. Bollet (École Nationale Supérieure de Géologie, France), E. Levei, I. Török (National Institute of Research and Development for Optoelectronics, Romania), N. Gajendra and L. Ferrando-Climent, Institute for Energy Technology, Norway)

10.00 **Options for disposal of the naturally radioactive processing residues of a rare earths project**
H.G. Jung and P. Booth (GeoEnergy Consult, Germany)

10.20 Coffee and exhibition

11.20 **Improving lithium concentration through sequential magnetic and dense media separation**
J. Figueiredo (Federal University of Ouro Preto, Brazil, and University of Porto, Portugal), H. Pereira, L. Silva, F.L. Martins, É. Linhares, J.A.M. da Luz (Federal University of Ouro Preto, Brazil), M. C. Vila (University of Porto, Portugal) and L. Pereira (Helmholtz Institute Freiberg for Resource Technology, Germany)

11.40 **Influence of microwave pre-treatment on particle breakage and comminution efficiency of mineral ores**
T. Amos-Judge, R. Asamoah (University of South Australia, Australia and University College London, UK) and R.Wu (University College London, UK)

- 12.00 **Evaluation of SAG mill model parameters to understand the effect of ball load level**
S. Nkwanyana, N. Lameck (Mintek, South Africa), T. Moodley and I. Govender (Mintek and University of KwaZulu-Natal, South Africa)
- 12.20 **An energy-efficient alternative comminution and beneficiation circuit for the Kanyika niobium project**
R. Zietsman (Globe Metals & Mining, Australia)
- 12.40 Lunch
- 14.00 Technical Session 2
Chairperson: G. Asbjörnsson (Chalmers University of Technology, Sweden)
- 14.00 **Gravity–magnetic integration and selective regrinding for pyrochlore recovery at Kanyika**
R. Zietsman (Globe Metals & Mining, Australia)
- 14.20 **Phenomenological and population balance approaches for scaling SAG milling kinetics from pilot to industrial applications**
P. Pichinao (Anglo American, Chile)
- 14.40 **The carbon footprint of cast grinding media**
D. Hodges and P. Shelley (Molycop Global, USA)
- 15.00 **The versatility of HPGR in mineral processing and cement production circuits**
A. Hubert, H. Günter, F. Heinicke and A. Thamm (Köppern Aufbereitungstechnik GmbH & Co., Germany)
- 15.20 **Development and calibration of a phenomenological throughput model for the Quellaveco concentrator**
P. Pichinao and S. Urrejola (Anglo American, Chile)
- 15.40 **Repurposing an existing stirred mill to improve PGM recovery in UG2 flotation circuits**
T.L. Moodley, S. Nkwanyana (Mintek and University of KwaZulu-Natal, South Africa), I. Govender (Mintek, University of KwaZulu-Natal and University of Cape Town, South Africa), S. Pikinini, V. Govender, O. Mapazi, J. Sehata, N. Ntsasa, H. Mabowa, J. Tshilongo (Mintek, South Africa) and S. Zulu (Siyanda Bakgatla Platinum Mine (Pty) Ltd, South Africa)
- 16.00 Coffee
- 18.30 Coaches depart to Wild Fig Restaurant for conference dinner

Friday April 24th

- 08.40 Registration desk opens
Light breakfast, tea, coffee and fruit juice
- 09.20 Technical Session 3
Chairpersons: T. Moodley (Mintek, South Africa) and A. Ojaghi (DRA Global, Canada)
- 09.20 **Cyclone column separator based fine coal preparation process and carbon-ash separation process for coal gasification slag**
H. Yang, L. Dong, M. Fan and W. Bao (Taiyuan University of Technology, China)
- 09.40 **Development of a transparent and modular model library for integrated process simulation**
T. Louw, C. Kriel (Stellenbosch University, South Africa) and L. Auret (Stellenbosch University and Stone Three, South Africa)
- 10.00 **A new flotation simulation approach using model optimization**
A. Huraira and J. Suhonen (Metso Finland Oy, Finland)
- 10.20 Coffee
- 11.10 **Integration of ultrafine flotation within an MF2 circuit: optimizing copper recovery and energy efficiency at the Copperwood Project**
A. Ojaghi, D. Frost (DRA Global, Canada), W. Van Dyk (Highland Copper, USA) and L. Lintvelt (DRA Global, South Africa)
- 11.30 **Optimization approach for the quartz industry by using sands from Ravno, Slovenia**
K. Mohanty, J. Oliva, P. Alfonso, C.H. Sampaio, H. Anticoi, G. Dan, J. Perea (Universitat Politècnica de Catalunya, Spain) and B. Damjanovič (EKW-Kremen d.o.o., Slovenia)
- 11.50 **Linking flotation pulp chemistry with mill feed mineralogical characteristics**
B. Amankwaa-Kyeremeh, W. Skinner, R. Asamoah (University of South Australia, Australia) and C. Greet (University of South Australia and Magotteaux, Australia)
- 12.10 Lunch
- 14.00 *Technical Session 4*
Chairperson: P. Shelley (Molycop Global, USA)
- 14.00 **Identifying key attributes driving the environmental performance of aggregates production**
V. Gowda, C. Lee, K. Bhadani, G. Asbjörnsson, M. Evertsson (Chalmers University of Technology, Sweden), P.R. Martinez (ANEFA and Universidad Politécnica de Madrid, Spain) and C.L. Frades (ANEFA, Spain)

- 14.20 **Mineral processing circuits for mine waste valorization: towards sustainable phosphate resources**
M. Haidouri, Y. Ait-Khouia, A. Elghali, M. Benzaazoua and Y. Taha (Mohammed VI Polytechnic University, Morocco)
- 14.40 **Smart online process adaptation for complex refractory gold ore processing**
R.K. Asamoah (University of South Australia, Australia)
- 15.00 **The economic recovery of metal values from flotation tailings through magnetite and ammonium sulphate co-production in a zero-waste framework**
P. Miller (BacTech Environmental Corp., Canada), E. Ngoma, Z. Diloreto, E. Pakostova and N. Mykytczuk (MIRARCO, Canada)
- 15.20 **Hydrometallurgical extraction of nickel laterites through resin in moist mix integration into pressure acid leach CCD Circuits**
G. Acquah, G. Abaka-Wood, W. Skinner, J. Addai-Mensah, R. Asamoah (University of South Australia, Australia), P. Spiridonov (University of South Australia and InnovEco, Australia), A. Sheik and K. Sanjay (University of South Australia and CSIR, India)
- 15.40 Conference closure and invitation to Mineral Processing Circuits '28
A.J. Wills (MEI, UK)
- 15.50 Farewell sundowner in hotel gardens
Accompanying guests welcome