

## Processing of Zinc Ores and Concentrates '10

### Friday 12<sup>th</sup> November

16.30-17.30 Wine and Registration

### Saturday 13<sup>th</sup> November

- 08.00 Registration desk opens
- 09.00 Opening Remarks  
J. Wills (MEI, UK)
- 09.15 *Technical Session 1*  
Chairmen: R. Bowell (SRK Consulting, UK) and J. Matthes (Karlsruhe Institute of Technology, Germany)
- 09.15 **A mineralogical assessment of sphalerites from the Gamberg deposit**  
C.R. McClung and K.S. Viljoen (University of Johannesburg, South Africa)
- 09.45 **Infrared camera based optimization of the Waelz process for zinc recycling**  
J. Matthes, P. Waibel and H. B. Keller (Karlsruhe Institute of Technology, Germany)
- 10.15 **Treatment of lead chloride bearing residues from a novel zinc chlorination process**  
M. Hutton-Ashkenny, R. Bowell, M. Dey ((SRK Consulting, UK), L. Cheung, R. Gilders (Research Productivity Council, Canada) and D. Sapsford (University of Cardiff, UK)
- 10.45 Coffee
- 11.30 **Chloride roasting for the recovery of zinc**  
I. Jaafar, A. Griffiths, K. Williams, A. Hopkins, M. Hutton-Ashkenny, J. Steer, M. Griffiths and D. Sapsford (Cardiff University, UK)
- 12.00 **The purification of a concentrated acidic metal chloride brine for application to a zinc chloride electrowinning circuit**  
M. Hutton-Ashkenny, R. Bowell, M. Dey (SRK Consulting, UK) and D. Sapsford (University of Cardiff, UK)
- 12.30 **The Minex Process: a novel process for the recovery of zinc and associated metals from metallurgical wastes**  
M. Dey, M. Hutton-Ashkenny, J. Grogan, R.J. Bowell (SRK Consulting, UK), R. Guilders, L. Chueng (RPC, Canada), D.J. Sapsford, K.P. Williams (Cardiff University, UK), M. Dorman, T. Evans and D. Goldsack (Minex Technologies, UK)
- 13.00 Lunch
- 14.00 *Technical Session 2*  
Chairmen: M. Hutton-Ashkenny (SRK Consulting, UK) and C.R. McClung (University of Johannesburg, South Africa)
- 14.00 **Flotation of low grade zinc oxide mineral using cationic, anionic and mixed (cationic/anionic) collectors: influence of important factors**  
M. Ejtemaei, M. Irannajad and M. Gharabaghi (Amirkabir University of Technology, Iran)
- 14.30 **An improved pre-treatment of a zinc oxide ore before flotation**  
P. Xiang, Q.M. Feng, Y.J. Niu, L.M. Ou (Central South University, China) and Y.H. Shao (Kunming University of Science & Technology, China)
- 15.00 **On-line monitoring of hydrometallurgical solutions with diffuse reflectance spectrophotometer**  
M.J. Phiri and C. Aldrich (University of Stellenbosch, South Africa)
- 15.30 Coffee
- 16.00 **Controlled zinc dust dosage for copper cementation enabled by real-time copper concentration**  
S. Malan (Skorpion Zinc, Namibia) and K. Keet (Blue Cube Systems, South Africa)
- 16.30 **Mixed sulphide-oxide lead and zinc ores: problems and solutions**  
S. Moradi and J. Monhemius (Imperial College, UK)
- 17.00 Closing Remarks  
B.A. Wills (MEI, UK)