Monday November 18th

08.40  **Keynote Lecture: Flotation research, does advancement require a paradigm shift?**  1
      K. Heiskanen (Aalto University, Finland)

09.10  **Technical Session 1**
      Chairmen: J. Wiese (University of Cape Town, South Africa) and M.G. Nelson (University of Utah, USA)

09.10  **The effect of energy input on flotation kinetics of sulfide minerals in an oscillating grid flotation cell**  19
      M. Safari, M.C. Harris, D.A. Deglon (University of Cape Town, South Africa)

09.30  **Fluidized bed desliming in fine particle flotation – Part III flotation of difficult to clean coal**  29
      K.P. Galvin, N. Harvey, J.E. Dickinson (The University of Newcastle, Australia)

09.50  **Developments in positron emission particle tracking measurements of froth flotation**  51
      K. Cole, K. Hadler and J.J. Cilliers (Imperial College, UK)

10.10  Coffee and poster viewing

11.00  **Influence of particles on the formation of bubbles from a submerged capillary**  61
      K.Y. Ng, E. Law, M. Lim and S. Ata (University of New South Wales, Australia)

11.20  **3D, or not 3D? – CFD modelling of flotation froths**  70
      P.R. Brito-Parada and J.J. Cilliers (Imperial College, UK)

11.40  **Numerical and experimental investigation of air-water flow in a flotation machine**  77
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12.20  **Development of an effective froth controlling collector in silicate flotation**  104

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      K.C. Corin and J.G. Wiese (University of Cape Town, South Africa)
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S. Mohammadi-Jam and K.E. Waters (McGill University, Canada)

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M. Rudolph (Helmholtz-Institute Freiberg for Resource Technology, Germany) and U.A. Peuker (TU Bergakademie Freiberg, Germany)

15.40 Coffee

16.10 **Effect of oxidation time on the floatability of tennantite and chalcopyrite; surface characterization using X-Ray Photoelectron Spectroscopy (XPS) and Atomic Force Microscopy (AFM)** 200
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Bo Wang and Yongjun Peng (University of Queensland, Australia)

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10.00  **A thermochemical study of thiol collector-galena surface reactions**  
B. McFadzean and C.T. O’Connor (University of Cape Town, South Africa)

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X. Chen, and D. Bradshaw (JKMRC, Australia), Y. Peng (University of Queensland, Australia)

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C.J. Greet (Magotteaux Pty Limited, Australia)

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12.00  **Voltammetric study of the interaction between PGMs and sodium ethyl xanthate**  
M. Tadie, K. Corin, J. Wiese and C. O’Connor (University of Cape Town, South Africa)

12.20  **Impact of plate type minerals on flotation performance assessed using rheological measurements**  
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T. Hirajima, M. Mori, O. Ichikawa, K. Sasaki, H. Miki (Kyushu University, Japan) and M. Sawada (Sumitomo Metal Mining Co. Ltd, Japan)

14.20  **Froth flotation of bastnäsite**  
A. Jordens and K.E. Waters (McGill University, Canada)

14.40  **Synthesis of 2-ethyl-2-hexenal oxime and its flotation performance for copper ore**  
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15.00  **Effect of electrolytes on the flotation of a copper ore in the presence of clay minerals**  
S. Zhao (ALS Metallurgy, Australia) and Y. Peng (University of Queensland, Australia)

15.20  **Improving floatability of fine chalcopyrite particles in the concentration of complex sulphide ore**  
H. Kumar, H. Rautjärvi, J. Ruuska and H. Kuopanportti (University of Oulu, Finland)

15.40  **Synergetic effect with a mixture of anionic and nonionic reagent: Ca-mineral contrast separation by flotation at neutral pH**  
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