Nickel Processing ‘12

Tuesday 13th November

1630-1800  Pre-registration and wine reception
Accompanying guests welcome

Wednesday 14th November

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

09.10  Opening Remarks
B.A. Wills (MEI, UK)

09.15  Technical Session 1
Chairmen: R.T. Jones (Mintek, South Africa) and T. Robinson (Teck, Canada)

09.15  Keynote Lecture: Hydro-pyro integration in the processing of nickel laterites
A. Oxley (Alyssum Ventures Ltd, UK) and N. Barcza (Metallurgical Engineering Consultant, South Africa)

10.00  Direct extraction of nickel and iron from laterite ore using Carbonyl Process
D.S. Terekhov and N.V. Emmanuel (CVMR® Corporation, Canada)

10.30  Coffee

11.30  Thermodynamic analysis of the Fe-Ni-Co-Mg-Si-O-H-S-C-Cl system for selective sulphidation of a limonitic laterite ore
C.A. Pickles, C.T. Harris and J.G. Peacey (Queen’s University, Canada)

12.00  The selective sulphidation and physical upgrading of nickel from a nickeliferous lateritic ore
C.T. Harris, J.G. Peacey and C.A. Pickles (Queen’s University, Canada)

12.30  Lunch

14.00  Technical Session 2
Chairman: E.L. Thyse (University of Stellenbosch, South Africa)

14.00  Changes in an Australian laterite ore during heat treatment
J. Yang, O. Ostrovska (University of New South Wales, Australia) and G. Zhang (University of Wollongong, Australia)

14.30  A study of atmospheric acid leaching of a South African nickel laterite
C.K. Thubakgale, R.K.K. Mbaya (Tshwane University of Technology, South Africa) and K. Kabongo (Bohlaba Mines Ltd, South Africa)

15.00  Recovery of nickel and cobalt from laterite leach tailings through resin-in-pulp scavenging and selective ammoniacal elution
P. Littlejohn and J. Vaughan (The University of Queensland, Australia)

15.30  Examining Ni-laterite ambient leach mineralogy – a holistic multi-scale approach
H.M.A. Hunter, R.J. Herrington (Natural History Museum, UK), and E.A. Oxley (Alyssum Ventures, UK)

16.00  Coffee
Thursday 15th November

08.30 Light breakfast of filled croissants, tea, coffee and fruit juice

09.15 Technical Session 3
Chairmen: R.K.K. Mbaya (Tshwane University of Technology, South Africa) and I. Duhamed-Achin, Eramet Research, France

09.15 The effect of using sodium di-methyl-dithiocarbamate (di-C\textsubscript{1}\textsubscript{-DTC}) as co-collector with xanthates in the froth flotation of pentlandite ore
W.A. Ngobeni, G. Hangone and D. Ikhu-Omoregbe (Cape Peninsula University of Technology, South Africa)

09.45 The influence of mineralogy and ore texture on mineral liberation and flotation at the Nkomati Nickel Mine, South Africa
G. Mishra, F. Viljoen and H. Mouri (University of Johannesburg, South Africa)

10.15 Flotation of PGM-containing nickel minerals: modelling, simulation and plant-wide regression analysis
N. du Preez and F. Crundwell (CM-Solutions, South Africa)

10.45 Coffee

11.30 The development of novel nickel selective amine extractants
A.I. Okewole, N.P. Magwa, P. Moleko and Z.R. Tshentu (Rhodes University, South Africa)

12.00 Nickel diagnostic leaching
N.M. Chapman, W. Van Bronswijk (Curtin University, Australia) and H. Watling (CSIRO Minerals Down Under Flagship, Australia)

12.30 Atmospheric leaching of copper-nickel matte: modelling, simulation and plant-wide regression analysis
J. Lloyd, F. Crundwell (CM Solutions (Pty) Ltd, South Africa) and N. Steenekamp (Lonmin Platinum, South Africa)

13.00 Lunch

14.00 Technical Session 4
Chairman: Z.R. Tshentu (Rhodes University, South Africa)

14.00 Selective reductive leaching of an oxidised cobalt-containing residue
S. Chong, W. Hawker and J. Vaughan (University of Queensland, Australia)

14.30 Towards understanding nickel converter matte solidification
E.L. Thyse, G. Akdogan (University of Stellenbosch, South Africa), P. Taskinen (Aalto University, Finland) and J.J. Eksteen (Curtin University, Australia)

15.00 TGA kinetic study on the H\textsubscript{2} reduction of an iron nickel oxide
Dawei Yu, Mingqian Zhu, T.A. Utigard and M. Barati (University of Toronto, Canada)

15.30 Closing Remarks
A.J. Wills (MEI, UK)

15.40 Coffee and Wine
Accompanying guests welcome