

Hi-Tech Metals '18



#HiTechMetals18

Provisional Timetable- subject to change
Changes will be highlighted and published at [#HiTechMetals18](#)

Wednesday November 21st

- 15.30- Welcoming wine function and pre-registration in Vineyard Gardens
- 17.00 Accompanying guests welcome

Thursday November 22nd

- 08.15 Registration desk opens
Light breakfast of filled croissants, tea, coffee and fruit juice
- 09.00 Opening Remarks
B.A. Wills (MEL, UK)
- 09.15 *Technical Session 1*
Chairmen: TBA
- 09.15 **Keynote Lecture: High technology metals: facts, fiction and recycling**
J. Gutzmer, M. Frenzel and M. Reuter (Helmholtz Institute Freiberg for Resource Technology, Germany)
- 10.00 **Recycling of high tech metals for reuse in new technology materials**
N.J Boxall, K.Y. Cheng (CSIRO Land and Water, Australia), S. King (CSIRO Manufacturing, Australia), A. Bhatt (CSIRO Energy, Australia), W. Bruckard (CSIRO Mineral Resources, Australia) and A.H Kaksonen (CSIRO Land and Water, and University of Western Australia, Australia)
- 10.30 **Critical raw materials – advanced recycling technologies and processes**
R. Stauber (Fraunhofer ISC, Germany)
- 11.00 Coffee
- 11.45 **A comparison of centrifugal gravity separators for the beneficiation of the Nechalacho REE deposit**
C. Marion, R. Li, R. Langlois, I. Rell, K.E. Waters (McGill University, Canada), T. Grammatikopoulos (SGS Inc, Canada), R. Fitzpatrick (Camborne School of Mines, UK) and T. Mildren (Gravity Mining Ltd, UK)
- 12.15 **Experimental study on the beneficiation of a lateritic rare earth ore by magnetising roasting and magnetic separation**
N. Faris, J. Tardio, S. Bhargava (RMIT University, Australia), R. Ram (Monash University, Australia) and M.I. Pownceby (CSIRO Mineral Resources, Australia)
- 12.45 Lunch
- 14.00 *Technical Session 2*
Chairmen: TBA
- 14.00 **A physico-chemical investigation into the flotation of rare-earth minerals**
C. Marion, R. Li, R. Langlois, E. Houlding, S. Johnston and K.E. Waters (McGill University, Canada)
- 14.30 **Anionic collector and non-ionic reagents combination approach in the flotation of monazite**
L.O. Filippov, A. Geneyton and I. Filippova (Université de Lorraine, France)
- 15.00 **An exploratory investigation into column flotation for the processing of a rare-earth ore**
E.R.L. Espiritu, C. Marion, O. Kökkiliç, R. Langlois, C. Gomez and K.E. Waters (McGill University, Canada)
- 15.30 **Leaching rare earth elements from phosphors recovered from end-of-life fluorescent lamps**
L. Bumhira, C. Dorfling and G. Akdogan (University of Stellenbosch, South Africa)
- 16.00- Sundowner in Vineyard Gardens
- 17.00 Accompanying Guests Welcome

Friday November 23rd

- 08.15 Registration desk opens
Light breakfast of filled croissants, tea, coffee and fruit juice
- 09.00 *Technical Session 3*
Chairmen: TBA
- 09.00 **High-purity lithium carbonate from a montebrasite pre-concentrate: applied mineralogy, pyro- and hydrometallurgy**
P.F.A. Braga, S.C.A. França (CETEM, Brazil) and R. Neumann (CETEM and Universidade Federal do Rio de Janeiro, Brazil)
- 09.30 **Processing of Li pegmatite using combined electrostatic and flotation methods: role of the mineral composition and liberation degree**
L. Filippov, I. Filippova, G. Crumiere (Université de Lorraine, France), R. Sousa, M.M. Leite and A.B. de Sousa (National Laboratory of Energy and Geology, Portugal)
- 10.00 **An investigation into the role of surface chemistry in spodumene flotation**
C. Marion, R. Li, R. Langlois, N. van Noord, O. Kökkılıç and K. Waters (McGill University, Canada)
- 10.30 Coffee
- 11.15 **Production of lithium carbonate from hard rock spodumene ore**
P. Tanskanen, P. Lamberg, P. Grönholm and O. Siren (Keliber Ltd., Finland)
- 11.45 **Characterization and beneficiation of pyrolyzed black mass: Increasing the recycling rate of spent lithium ion battery**
A. Vanderbruggen and M. Rudolph (Helmholtz Institute Freiberg for Resource Technology, Germany)
- 12.15 **Evaluating organic acids as alternative leaching reagents for metal recovery from lithium ion batteries**
B. Musariri, G. Akdogan, C. Dorfling, S. Bradshaw, N. Snyders (University of Stellenbosch, South Africa), M. Lundström and P. Taskinen (Aalto University, Finland)
- 12.45 Lunch
- 14.00 *Technical Session 4*
Chairmen: TBA
- 14.00 **A new discovery deserves a new approach - multi-technique geometallurgical characterization of the recently discovered Palokas Prospect cobalt (gold) mineralization, Northern Finland**
A.R Butcher (Geological Survey of Finland, Finland), G. Rollinson (Camborne School of Mines, UK), P.W.S.K. Botha (Hippo Geoscience, Australia) and N. Cook (Mawson Resources, Canada)
- 14.30 **Hydrometallurgical recovery of low concentrated high-tech metals from a complex sulfidic flue dust**
T. Helbig and C. Scharf (Helmholtz Institute Freiberg for Resource Technology, Germany)
- 15.00 **Ion exchange recovery of rhenium from copper leach solutions using weakly basic anion exchange resins**
J.B. Hiskey (University of Arizona, USA)
- 15.30 Coffee
- 16.00 **Recovery of indium from industrial wastewater by siderophores**
R. Jain and K. Pollmann (Helmholtz Institute Freiberg for Resource Technology, Germany)
- 16.30 **A surface chemistry study of niobium-bearing minerals**
V. Freire, C. Marion, R. Li, R. Langlois, M. Olivier, E. Houlding and K.E. Waters (McGill University, Canada)
- 17.00 Summary and invitation to Hi-Tech Metals '20
A.J. Wills (MEI, UK)
- 17.10 Farewell coffee and wine function, Vineyard Gardens
Accompanying Guests Welcome

Commented [b1]: Accepted 13th July