

## PROGRAMME

## Monday, 3 September 2007

8:15 **OPENING**

W. Sand, University of Duisburg-Essen/D

F. Glombitza, G.E.O.S. Freiberg Ingenieurgesellschaft mbh, Tuttendorf/D

8:30 **INTRODUCTION****Bioleaching Technology and Biobeneficiation I**

*Chairs: W. Sand / D.H.R. Morin*

8:40 **KEYNOTE LECTURE**

**Status and challenges of the bioleaching technologies**

D.H.R. Morin, BRGM, Orleans/F

9:20 **Optimization of ROM sulphide leaching at Anglo American Chile los bronces division**

S. Saldivar, G. Zarate, Anglo American Chile, Santiago/RCH

9:40 **Development of biotechnology on flotation tailing reprocessing in copper-concentrating factory in almalyk mining and metallurgical complex**

M. Sagdieva, K.S. Sanakulov, S.I Borminskiy, O.P.Vasilyonok, Institute of Microbiology of Academy of Sciences of Uzbekistan, Tashkent/UZB

10:00 **Talvivaara black schist bioheapleaching demonstration plant**

M. Riekkola-Vanhanen, Talvivaara Mining Company Ltd., Sotkamo/FIN

10:20 **Comparison of bioleaching effect of mesophilic (35°) and termophilic bacteria (45°) on the Tizapa tailings**

R. Rivera-Santillan, V. Becerril-Reyes, Universidad Nacional Autonoma de Mexico/MEX

10:40 **COFFEE BREAK WITH POSTER PRESENTATION****Bioleaching Technology and Biobeneficiation II**

*Chairs: D.H.R. Morin / W. Sand*

11:10 **Application potential of biohydrometallurgy in the Iranian mining industry**

M. Ranjbar, M. Schaffie, Shahid Bahonar University of Kerman/IR

11:30 **Overview of bioshale project main results for a sustainable way of exploiting black shale ores using biotechnology**

P. d'Hugues, BRGM, Orléans/F

11:50 **Removal of organically bound sulfur from oil shale by iron(III)-ion generated-regenerated from pyrite by the action of *Acidithiobacillus ferrooxidans***

V. Beskoski, J. Milic, Institute of Chemistry, Technology and Metallurgy, Belgrade/YU; B. Mandic, M. Takic, M. Vrvic, University of Belgrade/YU

12:10 **A qualitative study of galvanic actions during the bioleaching of mixed nickel sulphides**

V.A. Leão, Núcleo de Valorização de Materiais Minerais, Ouro Preto, MG/BR

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- 12:30 **Effects of monovalent cations on the formation of jarosites in *Acidithiobacillus ferrooxidans* cultures**  
J.P. Gramp, J.M. Bigham, O.H. Tuovinen, Ohio State University, Columbus/USA
- 12:50 **Novel approach in bioleaching? The use of HCN-forming bacteria to mobilize metals as water soluble cyanide complexes**  
H. Brandl, S. Lehmann, M.A. Faramarzi, University of Zurich/CH
- 13:10 Lunch

## Bioleaching Technology and Biobeneficiation III

*Chairs: A. Schippers / S.N. Groudev*

- 14:10 **KEYNOTE LECTURE**  
**Bioremediation of acid mine drainage in a uranium deposit**  
S. Groudev, P. Georgiev, I. Spasova, M. Nicolova, University of Mining and Geology, Sofia/BG
- 14:50 **High-rate fluidized-bed ferric sulfate generation for hydrometallurgical applications**  
J. Puhakka, P.H.-M. Kinnunen, T. van der Meer, B. Özkaya, E. Sahinkaya, A.H. Kaksonen, P. Nurmi, Tampere University of Technology/FIN
- 15:10 **Development of a tank bioleaching process for the treatment of complex Cu-polymetallic concentrates**  
M. Gericke, H.H. Muller, P.J. van Staden, A. Pinches, Mintek, Randburg/ZA
- 15:30 COFFEE BREAK WITH POSTER PRESENTATION
- Chairs: S.N. Groudev / A. Schippers*
- 16:00 **Continuous bioleaching of a cobaltiferous pyrite in stirred reactors: population dynamics and EPS production vs. bioleaching performances**  
P. D'Hugues, C. Joulian, P. Spolaore, C. Michel, F. Garrido, D. Morin, BRGM, Orléans/F
- 16:20 **Thermophilic bioleaching of a complex multimetal black shale ore**  
J. Langwaldt, Geological Survey of Finland, Outokumpu/FIN
- 16:40 **Characterisation of factors in the bacterial leaching of nickel laterites using statistical design of experiments**  
G.S. Simate, S. Ndlovu, University of the Witwatersrand, Johannesburg/ZA
- 17:00 **Modeling the auto-thermal performance of a thermophilic chalcopyrite bioleaching heap employing mixed mesophilic and thermophilic microbes**  
J. Vilcaez, K. Suto, C. Inoue, Tohoku University, Sendai/J
- 17:20 **POSTER PARTY**
- 20:00 End of the 1<sup>st</sup> day