DAY 1: JUNE 10, SUNDAY
16.00-20.00 REGISTRATION (CONGRESS VENUE)

DAY 2: JUNE 11, 2007 MONDAY ROOM 1

8.00-8.30 AUTHOR BREAKFAST CONGRESS VENUE
8.00-17.00 REGISTRATION CONGRESS VENUE
9.15-9.50 OPENING CEREMONY

FLOTATION AND SURFACE CHEMISTRY PROCESSES 1
Session Chairs:
10.00-10.25 E. Forssberg Mechanical activation of hematite in different grinding mills Plenary Lecture
10.30-10.50 V. Chanturiya, T. Ivanova, T. Matveyeva, T. Nedosekina Development of new reagent modes with a combination of complex-forming reactants for effective flotation of Pt- and Au-keeping minerals from complicated ores 031
10.50-11.10 S. Titkov, T. Gurkova, T. Alekseeva Reciprocal depressants and frothers effect on sorption and flotation properties of cation collectors 170
11.10-11.30 D. Wei, W. Liu, C. Jia, S. Gao, C. Han Flotation ability of a new chelating collector 185

COFFEE BREAK – POSTER SESSION I

FLOTATION AND SURFACE CHEMISTRY PROCESSES 2
Session Chairs:
12.00-12.20 V. Vigdergauz, A. Dorofeev Electrochemical study of wettability of platinum electrode related to mineral flotation 180
12.20-12.40 R. Jogric, V. Milosevic, L. Andric, Z. Markovic, A. Petkovic The desulphurization by froth flotation and its application to Bor flotation tailings 077

13.00-14.30 LUNCH
PHYSICAL SEPARATION METHODS 1

Session Chairs:
14.30-14.55  C. Sequeira  On the electrochemical nature of selected leaching reactions  Plenary Lecture
15.00-15.20  T. Tumidajski, D. Saramak, B. Skorupska
Chosen indexes of technological assessment of mineral resources enrichment processes as a function of the concentrates quality  149
15.20-15.40  A. Gül, G. Onal, O. Kangal  Gold recovery by gravity methods  120
15.40-16.00  I. Simovic, N. Kostovic, P. Stjepanovic, Lj. Spasic, M. Kostovic
Fly ash as a quartz sand substitute in heavy media separation  159
16.00-16.20  K. Gudulas, P. Samaras, S. Savvidis  Chromium spinels separation from laterites  061
16.20-16.50  COFFEE BREAK – POSTER SESSION II

PHYSICAL SEPARATION METHODS 2

Session Chairs:
16.50-17.10  M.K.G. Vermaak, J.C. Steyn  Recovery of vanadium from fines produced during ferrovanadium production  179
17.10-17.30  M. Zlagnean, N. Tomus, V. Ciocan, L. Ciobanu, I. Moraru, V. Leniuc
Centrifugal concentration of precious metals from polymetallic sulphurous ores of copper and zinc  196
17.30-17.50  E.T. Figueroa, H.D. Mendoza  Beneficiation technique for Philippine silica deposits  103
17.50-18.10  M.Z. Dogan, A.E. Yüce  Review of processing ores and future demands of uranium ores  191
18.10-18.30  G. Demi, S. Boci, F. Manusi, A. Kaltani  On the possibilities of pre-concentration of iron-nickel ores  041

20.00-22.30  WELCOME RECEPTION
DAY 2: JUNE 11, 2007 MONDAY ROOM 2

DEWATERING AND AGGLOMERATION
Session Chairs:

10.30-10.50  M. Krasteva, I. Nishkov, D. Nikolov  Performance of the dewatering processes in Assarel concentrator  114
10.50-11.10  K. Dedelyanova, K. Ionkov  Increase of iron recovery from limonite ore by selective flocculation  074
11.10-11.30  F. Arslan, S. Cosar, A. Gul, K.T. Perek, G. Ölbal, E. Acma  Effect of addition of boron minerals on pelletizing of iron concentrate  009

11.30-12.00  COFFEE BREAK – POSTER SESSION I

WASTE PROCESSING AND RECYCLING 1
Session Chairs:

12.00-12.20  M. Ghiani, A. Serce, R. Peretti, A. Zucca, R. Angius  Utilization of granite exploration waste  197
12.20-12.40  A. Kalaitzis, I. Nishkov  Evaluation of the applicability of the marble processing wastes as fillers  078
12.40-13.00  D. Boufounos, I. Pernientaki, D. Fafoutis, A. Xenidis, A.D. Harokopou, I. Paspaliar  Recycling of bauxite residues as a filling material for bauxite mine open pits  187

13.00-14.30  LUNCH
**METALLURGY 1**

Session Chairs:

15.00-15.20  
*J. Wilmot, E. Milosavljevic, L. Solujic, J. Hendrix*

Chemistry of cyanide in the presence of arsenic sulfide species  
158

15.20-15.40  
*M. Canbazoglu, T. Canbolat*

Tailing processing of converter slag flotation plant by ammonia leaching  
028

15.40-16.00  
*V. Ozdemir, A. Agirgol*  
Solvent extraction of cobalt and nickel from Caldag lateritic ore  
124

16.00-16.20  
*G. Rentizelas, E. Frogoudakis, Y. Kyriilli*

Innovating FeNi recovery method, by metallurgical treatment of solid waste: Dust from rotary kilns and magnetic slag from electric reduction furnaces (ERF) and converters  
138

16.20-16.50  
**COFFEE BREAK – POSTER SESSION II**

**METALLURGY 2**

Session Chairs:

16.50-17.10  
*S. Aydogan, A. Aras, M. Erdemoglu*  
Dissolution kinetics of sphalerite in various leaching media  
013

17.10-17.30  
*V. I Lutsik, A. Sobolev*

The kinetics of hydrolytic and oxidative hydrolytic dissolution of oxide and sulphide minerals  
160

17.30-17.50  
*V. Ozdemir, A.I. Arol*  
Nickel extraction by H₂SO₄ roasting followed by water leaching  
007

17.50-18.10  
*E. Acma, G. Onal, N. Acarkan, S. Alpyildiz*

Extraction of cobalt and copper from pyrite concentrate  
118

20.00-22.30  
**WELCOME RECEPTION**
DAY 3: JUNE 12, 2007 TUESDAY    ROOM 1

8.00-8.30    AUTHOR BREAKFAST    CONGRESS VENUE
8.00-12.00    REGISTRATION    CONGRESS VENUE

**FLOTATION AND SURFACE CHEMISTRY PROCESSES 3**

Session Chairs:

9.00-9.25    J. Laskowsk    Conditioning in Separation Processes    Plenary Lecture
9.30-9.50    J. Rubio, F. Capponi, R.T. Rodrigues, E. Matiolo
Optimizing the flotation of sulphide fines using emulsified oil extender technique 140
9.50-10.10    M. Ozer, G. Bulut, K.T. Perek, V. Gurkan, G. Onal
Flotation of nickel sulphide ore 122
10.10-10.30    M.A. Carvalho, T.A. Silva, C.A. Pereira, A.E.C. Peres
Optimization of willemite flotation 029
10.30-10.50    S.H. Hosseini
Selective flotation of Iranian Angooran oxidised zinc ore using cationic and anionic collectors 070

10.50-11.20    COFFEE BREAK – POSTER SESSION III

**FLOTATION AND SURFACE CHEMISTRY PROCESSES 4**

Session Chairs:

11.20-11.40    A.V. Kurkov, V.V. Shatalov, I.V. Pastukhova
Study of the interaction of reagents with the surface of pegmatitic complex minerals by microcalorimetric measurements 092
11.40-12.00    P. Solozhenkin
Physical-chemical study on sorption metals cations by antimony minerals 161
12.00-12.20    P. Shamsi, H. Abdollahi, A. Amini, A.R. Raeisi
Beneficiation feasibility of Heydarabad oxide-sulfide antimony ore sample by gravity and flotation methods 156
12.20-12.40    F. Cinar, O. Sahbaz, M. Cinar, B. Oteyaka, S. Kelebek
A parametric study on Jameson cell flotation of quartz 143
An unconventional talc flotation circuit for carbonate separation 023

13.00-14.30    LUNCH

**COAL PREPARATION**

Session Chairs:

14.30-14.50    A.E. Yuce, O. Kangal, M. Ozer, O. Kokkilic, A. Guney, G. Onal
Evaluation of coal fines from tailings 192
14.50-15.10    P. Fecko, V. Cabic, R. Havelek, I. Kolomaznik, I. Pectova
Comparing results between classical and column flotation on a variety of black coal samples 049
15.10-15.30    S.G. Ozkan, H.Z. Kuyumcu
Investigation of a modified flotation cell for ultrasonic coal flotation 125
15.30-15.50    F. Burat, M. Ozer, N. Acarkan, G. Onal
Desulphurization of high sulphur content coal by chemical treatment methods 119
<table>
<thead>
<tr>
<th>Time</th>
<th>Session Chairs</th>
<th>Title</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>16.20-16.40</td>
<td>M. Rumberger</td>
<td>Fresh water supply. The crisis of the 21st century</td>
<td>141</td>
</tr>
<tr>
<td>16.40-17.00</td>
<td>N. Calic, D. Salatic</td>
<td>Sustainable development indicators and Mineral Processing</td>
<td>027</td>
</tr>
<tr>
<td>17.00-17.20</td>
<td>L. Ilchev, N.G. Davcheva-Ilcheva</td>
<td>The sustainable economic development and the contribution of minerals and metallurgical processes</td>
<td>072</td>
</tr>
<tr>
<td>17.20-17.40</td>
<td>I. Tsolas</td>
<td>Development of environmental sustainability indicators in Mineral Processing</td>
<td>173</td>
</tr>
</tbody>
</table>

20.00-23.00 GALA DINNER
DAY 3: JUNE 12, 2007 TUESDAY       ROOM 2

COMMINUTION AND CLASSIFICATION
Session Chairs:

9.30-9.50
V. Chanturiya, I. Bunin, T. Ivanova, I. Khabarova.
Effect of high-power nanosecond electromagnetic pulses on disintegration process and physico-chemical properties of sulphide minerals and noble metal-containing beneficiation products 025

9.50-10.10
L. Andric, D. Salatic, N. Calic, S. Milosevic
Micronization of mica milling 006

10.10-10.30
F. Karakas, G. Onal
Energy optimization for grinding of cement raw materials 118

10.30-10.50
S. Esen, H. Dundar, H. Benzer
Exploring the potential use of Barmac B-series vertical shaft impactors in cement plants 015

10.50-11.20
COFFEE BREAK – POSTER SESSION III

INDUSTRIAL MINERALS PROCESSING
Session Chairs:

11.20-11.40
F. Arslan, A.A. Sirkeci, A. Gul, A.E. Yuce, F. Burat, A.S. Alpyildiz, G. Onal
Recovery of chromite and nickel from Aladag (Adana) region chromite ore 008

11.40-12.00
H. Abdollahi, P. Shamsi, A. Amini, S.A. Fazeli, F. Mosavvari
Mineralogy and beneficiation of Mondoon sedimentary phosphate ores by calcination and leaching methods 002

12.00-12.20
M.O. Limon, G. Atesok, O. Kangal
Filler kaolin production from alunite kaolins for paper industry 012

12.20-12.40
V. Chanturiya, E.A. Trofimova, V.I. Bogachev, Y.P. Dikov, M.I. Buleev
The formation and modification of natural diamond surface properties 032

12.40-13.00
E. Ferreira, L. Barros, A. Peres
Upgrading an apatite concentrate via high intensity magnetic separation 205

13.00-14.30
LUNCH
MATERIALS ANALYSIS AND CHARACTERIZATION

Session Chairs:

14.30-14.50  B. Peszko, T. Niedoba  Evaluation of morphological properties of raw materials grains on basis of porosimetry researches and specific surface  112
14.50-15.10  V. Sovmen, S. Savushkina, J. Stragis, M. Pavlyuchenko, G. Krivomazova  Minerals of gold ore during bio-oxidation of flotation concentrates in Olympiada mine (Krasnoyarsk region, Russia)  150
15.30-15.50  H. Sutcu, S. Piskin  Investigation of thermal characteristics of the core of Eriobotrya Japonica  166

15.50-16.20  COFFEE BREAK – POSTER SESSION IV

SIMULATION-CONTROL-MODELING

Session Chairs:

16.40-17.00  F. Kalatzi, K. Tsakalakis  Mineral processing circuits - Detection of the appropriate sampling scheme  172
17.00-17.20  S. Anac, Y. Topcuoglu, A. Gitmez, M.Z. Dogan  Evaluation of contributions on productivity at TKI-GL1 Omerler coal washing plant  206
17.20-17.40  S. Huseni, H. Vrajolli, R. Muzaqi, B. Durmishaj, B. Fetañaj, S. Francu  Lost metals through processing polymetallic lead-zinc in the flotation Badovc  071

20.00-23.00  GALA DINNER
8.00-8.30  AUTHOR BREAKFAST  CONGRESS VENUE
8.00-12.00  REGISTRATION  CONGRESS VENUE

WASTE PROCESSING AND RECYCLING 2
Session Chairs:

9.00-9.25  S.K. Kawatra  Sustainability in Mineral Processing plants  Plenary Lecture
9.30-9.50  N. Ataman, G. Ozbayoglu  Usability of non-standardized industrial wastes in abrasive blasting  011
9.50-10.10  M. Panayotova, V. Panayotov  On the recovery of spent nickel-cadmium batteries  129
10.10-10.30  M.E. Silva, A.E.C. Peres  Processing of slate wastes  158
10.50-11.10  K. Grozeva-Murhova, V. Kovatcheva-Ninova  Opportunities for increased total recovery of copper from slag flotation  087

11.10-11.40  COFFEE BREAK

WASTE PROCESSING AND RECYCLING 3
Session Chairs:

11.40-12.00  I. Spasova, M.V. Nicolova, P. Georgiev, S.N. Groudev  Biological and chemical leaching of metals from electronic scrap  162
12.00-12.20  R. Ucar, S. Koca, D. Oz, H. Koca  Concentration of unburnt carbon from Seyitomer power-plant bottom ashes  085
12.20-12.40  S. Groudev, P.S. Georgiev, I. Spasova, M.N. Nicolova  In situ bioremediation of an alkaline soil polluted with heavy metals  060

12.40-14.00  LUNCH
PLANT AND PROCESS DESIGN

Session Chairs:
14.00-14.20  G. Merazchiev, L. Tzotzorkov, N. Troshanova
Technological effectiveness of collective - separative flotation of copper-pyrite ores of the Assarel deposit in Wemco-160 flotation machines  104
14.40-15.00  G. Maracineanu, S. Krausz
Results improvement in processing of the cupferous ore of Rosia Poieni by means of column flotation, with adding of nonpolar oil  099
15.00-15.30  COFFEE BREAK – POSTER SESSION

ANCIENT MINING/ MINERAL PROCESSING/ METALLURGICAL TECHNOLOGY

Session Chairs:
15.30-15.50  M. Koui, D. Yfantis, P. Papandreopoulos, K. Pliatsikas
Corrosion products analysis of simulated ancient copper alloys by non-destructive techniques  086
15.50-16.10  G. Bulut, A. Gul, K.T. Perek, F. Karakas, N. Acarkan, G. Onal
A flotation study with ancient copper slag  121

OTHER SUBJECTS RELATED TO MINERAL PROCESSING

Session Chairs:
Salt rock refinement on eco-processing principle  195
16.30-16.50  S.W. Lee, W.K. Park, J.W. Ahn
Morphological influence of organic additives on aragonite precipitated calcium carbonate  095
17.00-17.30  CLOSING CEREMONY
POSTERS

DAY 2: JUNE 11, 2007 MONDAY

088 Impulse technologies used in the field of mineral processing  
S. Djendova, V. Kovatcheva-Ninova

207 Beneficiation of garnet sample from Dehsalm low-grade placer deposit using gravity and magnetic methods  
P. Shamsi, H. Abdollahi, A. Amini, H. Kamarei, A. Raissi

040 On the possibilities of enriching titanium-magnetite ores of Kashnjet deposit  
G. Demi, S. Boci, A. Kaltani, S. Cico

043 Numerical simulation of the hydrocyclone separation in dense suspensions of different particle size distribution  
J. Dueck, Th. Neese

005 Selective magnetic separation by means of temperature and frequency  
E. Hristoforou, G.N. Anastassakis, K. Efthymiadis

144 The wet magnetic separation studies on Kirsehir-Kaman-Savcili garnets  
N. Sahin, A. Inan, B. Karaoglu

171 Study on the granulometric influence and surface nature of the ilmenite on its high-tension separation  
T. Tomus, V. Ciocan, M. Zlagnean, L. Ciobanu, S. Krausz

003 Optimization and intensification of the flotation process  
A. Abramov, G. Onal

097 Flotation concentration of copper and precious metals in ore body Borska Reka  
S. Magdalinovic, S. Milosavljevic

105 The synergistic effect of mixtures of xanthates and their derivatives  
A. M. Michnea, G. Oprea

082 The enrichment of Turkey Kastamonu - Inebolu graphite ore by flotation  
O. Kaya, M. Canbazoglu

DAY 2: JUNE 11, 2007 MONDAY

126 Dissolved oxygen influence on lead-zinc electrochemically aided selection  
V. Panayotov, M. Panayotova

127 Electrochemically aided industrial technology for lead-zinc selection  
V. Panayotov, M. Panayotova, S. Shukerov, S. Bayrev, M. Damjanov

066 Coal slime flotation in a Jameson cell by using various frothers  
H. Hacifazlioglu, I. Toroglu

080 The processing studies on Canakkale-Yenice-Kalkim-Bagirkacdere Pb-Zn-Cu sulphides ore  
M. Karaoglu, P. Binici, H. Sezenler

202 Effect of electrolyte type on the rheological behavior of kaolines for production of sanitary-ware  
M.S. Eygi, G. Atesok

093 Briquetting of brown stone coals with binding agent colophony lame  
I. Grigorova, P. Tsvetanov, L. Kuzev

135 Usage of the selective flocculation for purification of feldspar products  
A. Boteva, H. Petrova

148 Modelling of energy consumption costs for Polish copper ore processing plant in Poland  
D. Saramak

019 Removing of sub-micro ash particles by sulphur agglomeration  
T. Boljanac, M. Vlahovic, S. Martinovic, V. Vidovkovic

083 Effect of soluble and solid Fe(III) forms on dissimilatory Fe(III) reduction by the marine bacterium Ferrimmonas balearica  
A. Kalogeropoulou, P. Katapodis, N. Christakopoulos, D. Kekos, N. Papasiopi
DAY 3: JUNE 12, 2007 TUESDAY

**POSTER SESSION III**

107  Bioleaching of copper smelter slag  
    D. Milanovic, V. Cvetkovski, S. Stankovic

153  Chemical metathesis of chalcopyrite in sulphuric acid  
    Y. Chen, G.N. Anastassakis, C.E.C. Sequeira

163  Possibility for copper production from inner deposit of Bor pit by leaching  
    Z. Stevanovic, L.J. Obradovic, M.S. Milanovic

021  Utilization of waste from plants that process sulfides ores of non-ferrous metals  
    A. Boteva, M. Parashekevova, B. Vladkova

200  Re-use of materials from closed Sn-W sludge bed  
    J. Botula, R. Samkova, V. Repka, P. Rucky

102  Valorization of used catalysts from oil refinery  
    S. Martinovic, M. Vlahovic, T. Boljanac, V. Vidjakovic, P. Jovic

154  Potential-pH diagram for the sulphur-water system at ambient temperature  
    C.A.C. Sequeira, G.N. Anastassakis

199  Metabolically mediated metal immobilization processes for bioremediation  
    E. Remoudaki, A. Hatzikioseyian, M. Tsezos

176  Bioprecipitation for heavy metals removal from Acid Mine Drainage  
    S. Ubaldini, C. Abbruzzese, S. Cico, S. Boci

181  Valorization of combustion ash for preparation of light-weight aggregate  
    M. Vlahovic, S. Martinovic, T. Boljanac, V. Vidjakovic

186  Artificial formation of a hardpan layer for acid generation control  
    E. Mylona, M. Diakonidou, I. Kotsis, A. Xenidis

**DAY 3: JUNE 12, 2007 TUESDAY**

**POSTER SESSION IV**

039  Ecological remediation of dump from uranium industry in Baita-Bihor area  
    G. Crutu, C. Manea, G. Groposila

037  Complex technologies of brucitic limestone capitalization in environmental protection  
    V. Ciocan, N. Tomus, B.D. Nica, E. Traista

098  The phyto-immobilization procedures for remediation contaminated area with heavy metals and/or radioactive elements  
    C.E. Manea, G. Crutu, D. Georgescu, N. Groza

201  Investigation on possibility of removal the hydrocarbons from contaminated soil by the microorganisms  
    B. Tora, M. Kurzac, P. Fecko

096  Implementation of environmental management system (EMS) in mineral processing plant  
    Z. Lopicic, M. Grbavec, M. Babic, M. Stojanovic

110  Effects of pyrophyllite on the properties of whiteware ceramics  
    H.S. Mutlu, M. Erdemoglu

022  Comparative analysis of technologies for ash transport and disposal at Serbian thermal power plants  
    E. Boric Ratevic, D. Drazovic, N. Kostovic, D. Vlajic

139  Mineral deposit management and mineral processing imported by GIS (Crnotice quarry - Slovenian case)  
    D. Rocavec, K. Hribernic, Z. Pogacnik

157  A general description of Albanian tar-sands and natural bitumen  
    F. Shehu, M. Selim, N. Shehu, A. Andoni

128  On decreasing the gap between education and industry  
    M. Panayotova