



**EUROMINES**  
European Association of Mining Industries  
Brussels



Polish Academy of Sciences,  
Mineral and Energy Economy Research Institute  
Kraków



Copper Research and Design Centre CUPRUM –  
Research and Development Centre  
Wrocław

## THE INTERNATIONAL CONFERENCE **SUSTAINABLE POST-INDUSTRIAL LAND MANAGEMENT**

4-5 November, 2004 – Kraków, Poland

6 November, 2004 – field trip to Trzebionka SA (Zn-Pb Mine)

Conference authorised by the Minister of the Environment in Poland  
and the President of the Management Board of KGHM Polska Miedź S.A.

### CONFERENCE PROGRAM

#### Scope

Due to its long industrial history, new Europe faces a major challenge in rehabilitation former industrial sites, mines and associated processing sites and their waste disposal facilities, in order to make these sites reusable for other activities. The complexity of re-development is generated by interrelations between relevant topics such as remediation, land use planning, urban design, environmental and social matters, and financial aspects. Particularly, in light of the enlargement of the European Union, it is expected that numerous, already existing old industrial sites will have to be rehabilitated, and many more will emerge where industries will have to shut down due to economic problems. Many of such sites can originate from the extractive industry, as waste from the extractive industry represents in some countries a major waste stream.

The Proposal for a EU Directive on the Management of the Waste from Extractive Industries merely creates 'a level playing field' in the areas of extractive waste, by specifying requirements on design operation, closure and most importantly: post closure inspection. On the one hand mining companies across the whole of the new Europe will have to develop or revise their strategies to prevent and reduce effects from management of waste facilities through their life cycle. On the other hand Europe has and will even more now develop high-level expertise in rehabilitation and land restoration.

The purpose of the conference is to present and discuss legal, environmental, technological and socio-economic aspects of sustainable post-mining land management strategy. This event aims to encourage a platform for exchange information and experience from all EU countries in comparison to others – Candidate and Associated, as well as non-European countries.

#### Areas of interest

- |                            |                             |
|----------------------------|-----------------------------|
| ■ Mine closure strategy    | ■ Mining industry           |
| ■ BAT                      | ■ Ecology                   |
| ■ Mining waste legislation | ■ Environmental liabilities |
| ■ Sustainable development  | ■ Abandoned sites           |

#### Conference topics

- Comparisons of countries' legislation and policies for sustainable development, safe closure (i.e. prevention of any accidents of broken tailing dams) and transformation of post-mining areas with the standards presented in the Proposal for a EU Directive on the Management of the Waste from Extractive Industries
- Presentation of case studies related to implementation of Best Available Techniques in waste management from extractive industries
- Analysis of alternative novel revitalisation strategies in the creation of strategy for post-mining land management, especially due to finding best solutions with the consideration of ecological, socio-economic and technical aspects
- Solutions for industrial, cost effective utilisation of flotation tailings (including valuable products recycling and production of ecological mixtures for backfilling)
- Evaluation of long-term environmental liabilities associated with the storage and management of mining waste
- Application of Life Cycle Assessment – a new technique in environmental management, and its economical aspect – Life Cycle Cost (LCC)
- Application of 'best-practice' concept with the use of Environmental Management Systems (EMS), including Environmental Impact Assessment (EIA) and Social Impact Assessment (SIA)
- Costs of waste management – scenario analysis (feasibility studies, simulations of application)
- Analysis of companies' accounting policy with respect to the environmental rehabilitation, reclamation and closure cost

## CONFERENCE PROGRAM

November 3, 2004			
15.30-20.00	Trip to Salt Mine in Wieliczka (optional)		
November 4, 2004			
08.00-09.00	<b>Registration</b>		
09.00-11.00	<b>Plenary Session 1 – Chairman: Corina Hebestreit</b>		
09.00-09.30	<b>Minister of the Environment of Poland</b>		
09.30-10.00	<b>Tom Simpson</b> Sustainable development in the EU extractive industry		
10.00-10.30	<b>Fotios Papoulias</b> The Proposed Directive on the management of waste from extractive industries		
10.30-11.00	<b>Leif Barthel et al.</b>		
	Life Cycle Engineering of mining and industrial sites		
11.00-11.30	Coffee break		
11.30-13.10	<b>Plenary Session 2 – Chairman: Tom Simpson</b>		
11.30-11.50	<b>Joanna Kulczycka, Ryszard Poda</b>		
	Management of post-industrial sites in Krakow		
11.50-12.10	<b>President of KGHM Polska Miedź S.A.</b>		
12.10-12.30	<b>Grażyna Pajor</b> Gospodarka odpadami poflotacyjnymi w ZGH Bolesław SA (Tailings management in ZGH Boleslaw SA)		
12.30-12.50	<b>Jan Dulewski, Bogusława Madej</b> Jakie zmiany czekają przemysł wydobywczy w Polsce – zasady gospodarowania odpadami górnictwami obecnie i w przyszłości (Mining industry in Poland – the present and future of mining waste management)		
12.50-13.10	<b>Pete Whitbread-Abrutat</b> A radical approach to post-mining regeneration – case studies from Cornwall, UK		
13.10-14.10	Lunch		
14.10-15.30	<b>Plenary Session 3- Management of post-mining areas, Chairman: Andrzej Kosiór</b>		
14.10-14.30	<b>Ryszard Uberman, Jerzy Mikołajczak</b>		
	Kopalnie odkrywkowe mogą pomóc w rozwiązaniu problemu azbestowego (Open-pit mines can solve the problem of asbestos)		
14.30-14.50	<b>Justyna Górniak-Zimroz, Jerzy Malewski, Józef Woźniak</b> Metodyka budowy systemu wspomagania decyzji w zarządzaniu terenami pogórnictwa do celów gospodarki odpadami komunalnymi (The methodology of development of decision support system for management of municipal waste and mining voids)		
14.50-15.10	<b>Reinhard Hüttl</b> Ecological development of post-mining landscapes in the Lusatian lignite mining district (Germany)		
15.10-15.30	<b>Discussion</b>		
15.30-16.20	Coffee break		
16.20-17.40	<table border="0" style="width: 100%;"> <tr> <td style="width: 50%; text-align: center;"><b>Session 1A - Chairman: Miguel Diaz</b> <b>New ideas in materials and technologies</b></td> <td style="width: 50%; text-align: center;"><b>Session 1B - Chairman: Jerzy Mikołajczak</b> <b>Hazardous substances management</b></td> </tr> </table>	<b>Session 1A - Chairman: Miguel Diaz</b> <b>New ideas in materials and technologies</b>	<b>Session 1B - Chairman: Jerzy Mikołajczak</b> <b>Hazardous substances management</b>
<b>Session 1A - Chairman: Miguel Diaz</b> <b>New ideas in materials and technologies</b>	<b>Session 1B - Chairman: Jerzy Mikołajczak</b> <b>Hazardous substances management</b>		
16.20-16.40	<b>Kostas Komnitsas, G. Bartzas, Ioannis Paspaliaris</b> Evaluation of low-cost materials for the decontamination of acidic leachates using permeable reactive barriers		
16.40-17.00	<b>Krzysztof Wrzosek, Andrzej Zajbert</b> Rozwiązanie zagospodarowania odpadów flotacyjnych w składowisku „Żelazny Most” (Tailings management in „Żelazny Most”)		
17.00-17.20	<b>Zygmunt Strzyszczyk</b> Zastosowanie magnetometrii w rekultywacji i zagospodarowaniu terenów poprzemysłowych		
17.20-17.40	<b>Rapolas Liužinas et al.</b> Role of biological accretions for water treatment		
17.40-18.40	<b>POSTER SESSION – Chairman: Joanna Kulczycka</b>		
	<b>Piotr Czupryński</b> Project REGENTIF - network for enhancing innovation in regenerating old industrial facilities		
	<b>Beata Hejmanowska, Ewa Glowienka</b> Remote sensing monitoring - an example of abandoned sulphur mining region - Machow/Jeziorko Poland		
	<b>Arpine Jenderedjian</b> Activities for development wetlands- sustainable conservation in Armenia		
	<b>Karel Kořínek</b> The utilization of the program LUCIA in the plastics flotation		
	<b>Iwona Kuczyńska</b> Zielone parki przedsiębiorczości jako sposób rewitalizacji terenów poprzemysłowych		
	<b>A.K. Nowak, K. Fela, S. Żelazny, A. Świerczek, G. Klamecki, B. Włodarczyk</b> Studies on strength of filling composed of flotation tailings from "Trzebieńka" mining works and chromic mud		
	<b>Gabriela Woźniak</b> Diversity of spontaneous vegetation on post-industrial sites - importance in reclamation process		
	<b>Robert Zeman</b> Effect the mining and processing of magnesite at the environment in smz, jsc. Jelšava		
	<b>S. Żelazny, B. Włodarczyk, A. Jarosiński</b> The qualification of possibility of utilization of the waste product from the flotation process of zinc-leaded ores to hydraulic filling		
20.00-24.00	<b>Conference Dinner at the Restaurant at the Royal Castle Wawel</b> <b>Departure from the hotel at 19.30</b>		

<b>November 5, 2004</b>		
<b>09.00-11.00</b>	<b>Session 2A - Chairman: Katarzyna Kreft-Burman Environmental liabilities and social issues</b>	<b>Session 2B - Chairman: Andrei Subbotin Case studies</b>
<b>09.00-09.20</b>	<b>Tsakiris Panagiotis</b> The contribution of mining industry to the management of abandoned mines	<b>Martin Petersen, Roger Payne</b> Asset realisation through environmental clean-up at Treпча Mines Complex, Kosovo
09.20-09.40	<b>Andrzej Kosiór, Robert Podolski</b> Strategy and practice of mines closure, in the south-west Poland with regard, of revitalization and sustainable development, of the post-mining areas	<b>Miguel Menéndez, Benjamín Fernández, Pablo Delgado</b> Industrial park remediation in Avilés
09.40-10.00	<b>Jaroslav Zawadzki, Piotr Fabijańczyk</b> Underground water contamination studies of the part of foreground of „Żelazny most” reservoir using cokriging	<b>Juris K. Balins, Roger A. Payne, Shiu N. Kam</b> Elliot lake - a sustainable transformation
10.00-10.20	<b>D. Dixon-Hardy, K. Kreft-Burman</b> Closing and abandoning mines in the United Kingdom	<b>A. Kontis, Ypatia Kirillidi</b> Sustainable land management of the nickel mining industry in Greece.
10.20-10.40	<b>Wolfgang Quecke</b> The responsibility of the German hard coal company when closing its mining sites - possibilities and limitations	<b>Marja Liisa Räsänen</b> After-care plans of the old Luikonlahti Cu-Zn-Co mine and tailings facility previously used in a talc operation, eastern Finland
10.40-11.00	<b>Karol Koneczny, Małgorzata Góralczyk</b> Can ecological charges be a solution for the environmental liabilities?	<b>Victor Marroquín, Ramón Rodríguez, José Redondo</b> Post-industrial terrains of mining and iron and steel municipalities of Malopolska region (Poland)
11.00-11.30	Coffee break	
<b>11.30-13.10</b>	<b>Session 3A - Chairman: Peter Whitbread-Abrutat Plants in post-industrial land management</b>	<b>Session 3B - Chairman: Marja Liisa Räsänen Case studies</b>
11.30-11.50	<b>Bert-Jan Groenenberg et al.</b> Revegetation as a tool for risk containment of heavy metal polluted sites	<b>Ludwik Seweryn, Jacek Szczepiński</b> Water management of abandoned lignite open pits in Poland
11.50-12.10	<b>Przemysław Ryszka, S. Gawroński, Katarzyna Turnau</b> Application of mycorrhizal grasses from wetlands in stabilisation of zinc wastes	<b>Vicente Peinador et al.</b> Reconditioning of industrial areas affected by coal mining in Asturias (Spain)
12.10-12.30	<b>Marian Głażewski, Andrzej Eymontt</b> Hydroseeding method with usage of the sewage sludge for agrotechnical reinforcement	<b>K. Kreft-Burman, J. Saarela, D.Dixon-Hardy</b> Legal aspects of tailings dams safety. Case studies: Finland and United Kingdom
12.30-12.50	<b>Katarzyna Turnau et al.</b> Role of mycorrhizal fungi in phytoremediation	<b>Zita Izakovičová</b> Environmental evaluation of the industrial region of the Slovak Republic - the Žiar Basin Region
12.50-13.10	<b>Lesław Rachwał et al.</b> Drzewa i krzewy w rewitalizacji terenów przemysłowych (The plants in revitalisation of post-industrial areas)	<b>K. Czajka</b> Polluted sites registration as a tool for monitoring of environmental safety state
13.10-14.30	Lunch	
<b>14.30-15.30</b>	<b>Session 4A – Chairman: Roger Payne Legal, economic and ecologic aspects</b>	<b>Session 4B – Chairman: Jan Kudelko Mine waste management</b>
<b>14.30-14.50</b>	<b>Dušan Marc, Jože Kortnik, Uroš Bajželj</b> New EU Mining Waste Legislation: What brings to Slovenia in the future ?	<b>M.A. Díaz et al.</b> The treatment of mine waste to achieve cost effective engineered closure of tailings dams (CLOTADAM) – an update
14.50-15.10	<b>Jerzy Mikołajczak</b> Szacowanie ryzyka ekologicznego na terenach zdegradowanych przez składowiska odpadów. (The assessment of environmental risk on the areas degraded by the landfills)	<b>Jan Kudelko, Janusz Nowak</b> Wykorzystanie masowych odpadów przemysłowych w poeksploatacyjnym zagospodarowaniu wyrobisk w regionie dolnośląskim (Utilisation of bulk industrial wastes in post-mining management of excavations in Lower Silesia)
15.10-15.30	<b>Bogusław Bieda</b> Application of the LonWorks distributed system (technology) for the optimal landfill management or reclamation of the contaminated sites	<b>Andrzej Grotowski, Andrzej Mizera, Andrzej Szafran</b> Importance of methods counteracting the wastes emission for the sustainable development of areas where flotation tailing management facilities are localised
15.30-16.00	Coffee break	
<b>16.00-17.00</b>	<b>Training</b>	
<b>16.00-17.00</b>	<b>L. Barthel</b> Course of instruction for LCA-software GaBi 4	
<b>November 6, 2004</b>		
<b>09.30-15.00</b>	Field trip to Trzebieńka lead-zinc mine around 13.30 - lunch There is a possibility of catching earlier flights on the way from Trzebieńka mine	

#### Conference venue

The conference will take place in the conference room of:

**Hotel Campanile Kraków**, ul. Św. Tomasza 34, 31-023 Kraków tel/fax +4812 424 2600 , +4812 424 2601  
([www.campanile.com.pl](http://www.campanile.com.pl), e-mail : [krakow@campanile.com.pl](mailto:krakow@campanile.com.pl)).

## Conference fees

Registration	Regular	EUROMINES members
Author (accepted papers)	150 EUR	120 EUR
Regular	170 EUR	150 EUR
Field trip to Trzebieonka	30 EUR	30 EUR
Trip to Salt Mine	30 EUR	30 EUR
Accompanying person	Registration 30 EUR Field trip to Trzebieonka mine 30 EUR Trip to Salt Mine 30 EUR	

## Payment method

Bank transfer with annotation: SPILM 2004

Account number: BPH PBK SA Krakow No PL93 1060 0076 0000 3800 0003 8507

SWIFT: BPH KPL PK

## Registration

Please fill the attached registration form and send it:

- by fax to: **+4812 632 2245**
- by e-mail to: **lca@min-pan.krakow.pl**

The registration is possible online via: **www.min-pan.krakow.pl/pbs**

The registration deadline is **31.10.2004**

## Accommodation

Organisers have made the arrangement with Campanile Hotel and Classic Hotel. Please quote "Polish Academy of Sciences, Post Industrial Land Management" when making the reservation. The conference fee does not include accommodation.

### Hotel Campanile Kraków

ul. Św. Tomasza 34, 31-023 Kraków  
tel/fax +4812 424 2600 , +4812 424 2601

**www.campanile.com.pl**

**e-mail : krakow@campanile.com.pl**

### Hotel Classic

ul. Św. Tomasza 32, 31-014 Kraków  
Tel: +4812 424 0303, Fax: +4812 429 3680

**www.hotel-classic.pl**

**e-mail:hotel@hotel-classic.pl**

## Field trip

The conference includes also the field trip to Trzebieonka lead-zinc mine located in the Krakow proximity. The trip will take place on Saturday – 06.11.2004.

The Trzebieonka mine will soon be closed, so this is a unique opportunity to visit it before closure. Mining in the Trzebieonka area started in the 14<sup>th</sup> Century with the current operation dating back to 1885. However, this activity is terminated in current decade. The Trzebieonka Mining Plant consist of the underground mine (capacity of 2.3 Mt of ore - 3.4% Zn and 1.5% Pb), beneficiation plants located close to the Trzebieonka mine and the concentrator (processing capacity of 1.9 Mt/y). The plant supplies selective sphalerite concentrates with 58-60% Zn and reduced contents of MgO and CaO from its unique installation started in 1995 (the maximum content of MgO is 0.2% and CaO - 0.8%), as well as flotation concentrates of galena with 68-70% Pb. The Trzebieonka mine and processing plant is the part of the structure of ZG Trzebieonka S.A., a joint stock company since 1992. The company had been granted concessions for the Balin-Trzebieonka deposit, which is valid till 2010, but the reserves are almost exhausted – the mine can operate until 2006-2008.

## Contact

**Joanna Kulczycka (Ph.D.)**

**IGSMiE PAN**

ul. Wybickiego 7  
31-261 Kraków, Poland

**kulczycka@min-pan.krakow.pl**

**tel/fax +4812 632 2245**

**Aleksandra Mońka (M.Sc.)**

**Copper Research and Design Centre CUPRUM - RDC**

pl. 1 Maja 1/2  
50-136 Wrocław, Poland

**amonka@cuprum.wroc.pl**

**tel/fax +4871 7812 357**

For any enquiries please send e-mail to: **lca@min-pan.krakow.pl**

**Please visit SPILM 2004 conference web page**

**www.min-pan.krakow.pl/pbs**

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