

- 1.1 Conference Chairman
- 1.2 Honorary Committee
- 1.3 Scientific and Programme Committee
- 1.4 Organizing Committee
- 2.1 Scope and purpose of the conference
- 3.1 Programme of the conference
  - Wednesday, October 13
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- 4.1 Conference venue
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## Second Announcement



# conference

i n t e r n a t i o n a l

By-Product Metals in Non-Ferrous Metals Industry

**„By-product or already strategic metals?“**

Wrocław, 13–15.10.2010

Under the Patronage of Minister of Economy and President of KGHM Polska Miedź S.A.

Organized by:



Media sponsorship:

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nieżelazne**

**MAGAZYN  
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**MIESIĘCZNIK PRZEMYSŁU  
NOWY PRZEMYSŁ**

<b>1.1</b>	<b>Conference Chairman</b>
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## Conference Chairman

1.1

prof. Zbigniew Śmieszek – Instytut Metali Nieżelaznych, SITMN

## Honorary Committee

1.2

Herbert Wirth – KGHM Polska Miedź S.A.  
Janusz Adamczyk – KGHM Ecoren S.A.  
Roman Grzelczak – Huta Miedzi „Głogów”  
Edward Chlebus – Politechnika Wroclawska  
Krzysztof Meissner – Uniwersytet Warszawski  
Bogusław Ochab – ZGH „Bolesław” S.A.  
Miroslaw Indyka – Huta Cynku „Miasteczko Śląskie”  
Zbigniew Rybakiewicz – Orzeł Biały S.A.  
Monika Hardygóra – KGHM Cuprum Sp.z o.o.  
Andrzej Konieczny – Zakłady Wzbogacania Rud KGHM Polska Miedź S.A.  
Krzysztof Fitzner – Akademia Górniczo-Hutnicza  
Wojciech Szkliniarz – Politechnika Śląska  
Maciej Gierej-Mennica – Metale Szlachetne S.A.

## Scientific and Programme Committee

1.3

### President:

Andrzej Chmielarz – Instytut Metali Nieżelaznych

### Members:

Adam Żurek – KGHM Ecoren S.A.  
Leszek Byszyński – KGHM Polska Miedź S.A.  
Miroslaw Fatyga – ZGH „Bolesław” S.A.  
Ryszard Chamer – Instytut Metali Nieżelaznych, O/Legnica  
Krystyna Anyszkiewicz – Instytut Metali Nieżelaznych  
Andrzej Wieniewski – Instytut Metali Nieżelaznych  
Józef Czernecki – Instytut Metali Nieżelaznych

## Organizing Committee

1.4

Alicja Skotnicka – IMN  
Anna Królikowska – IMN  
Joanna Szczepaniak – KGHM Ecoren S.A.





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## Scope and purpose of the conference

2.1



The conference shall cover various aspects related to the subject of by-product metals:

- characteristics of by-product metals in ores and concentrates (As, Co, Ni, Pb, Re, Bi, Sb, Se, Te, Cd, precious metals and others),
- separation of by-product metals in mining and ore treatment processes,
- behaviour of by-product metals in metallurgical and hydrometallurgical treatment of basic metals concentrates,
- hydrometallurgical methods of by-product metals recovery,
- pyrometallurgical methods of by-product metals recovery,
- rhenium metallurgy and applications,
- by-product metals as impurities in basic metals – methods for removal and refining,
- recycling of by-product metals,
- economics of by-product metals recovery,
- environmental protection in recovery of by-product metals,
- applications of by-product metals,
- new compounds and alloys based on by-product metals.

The objective of the conference is to define new directions for development in production and application of by-product metals.

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## Programme of the conference:

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### Wednesday, October 13

Optional – technical trip to KGHM Ecoren S.A. – Hydrometallurgy Division in Głogów – visit to the installation for ammonium perrhenate production, max number of attendants – 40 (the trip is filled on a first come first served basis).

Cost: 36,60 EUR / 1 person.

- 8<sup>00</sup> bus from hotel Sofitel, Wrocław**
- 10<sup>15</sup>–13<sup>00</sup> visit to the plant**
- 15<sup>00</sup> return to Hotel Sofitel**

Information on accommodation for additional night 12/13.10 and related costs provided on the registration form.

Registration starting from 13<sup>00</sup>

#### Opening ceremony:

- 16<sup>00</sup>– 16<sup>10</sup> prof. Z. Śmieszek, Director of IMN, President SITMN**
- 16<sup>10</sup>– 16<sup>20</sup> dr H. Wirth, President KGHM Polska Miedź S.A.**

#### Session I

- 16<sup>20</sup>– 16<sup>45</sup> Strategic minerals to the EU economy: an overview of the raw material initiative process.  
P. Christmann, T. Auge, BRGM, France**
- 16<sup>45</sup>– 17<sup>10</sup> Recovery of by-product metals in a one-stage flash-smelting of copper concentrates.  
J. Garbacki, St. Nosal, L. Byszyński, KGHM Polska Miedź S.A., Poland**

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## Programme of the conference:

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- 17<sup>10</sup> – 17<sup>35</sup>**     **Securing the supply of precious & special metals – the need for closing the loop.**  
**M. Diehl, Umicore AG&Co.KG, Germany**
- 17<sup>35</sup> – 18<sup>00</sup>**     **By-product metals in electronics.**  
**W. Strupiński, ITME, Poland**
- 18<sup>00</sup> – 18<sup>25</sup>**     **A concept of IP creation and management at Wrocław Research Centre EIT+.**  
**M. Miller, P. Ney, EIT+, Poland**
- 19<sup>30</sup>     Dinner

## Thursday, October 14

from 8<sup>00</sup>     Breakfast

### Session II

- 9<sup>00</sup> – 9<sup>25</sup>**     **Easy recovery of Minor Metals in primary and secondary zinc industries by means of the ZINCEX Technology.**  
**G. Diaz, D. Martin, C. Frias Gomez, E. Garcia Quismondo, Tecnicas Reunidas S.A., Spain**
- 9<sup>25</sup> – 9<sup>50</sup>**     **25 years of recycling of Secondary Materials at Hydrometal (Belgium).**  
**P. Henry, Hydrometal S.A., Belgium**
- 9<sup>50</sup> – 10<sup>15</sup>**     **By-product metals – impurities or profitable product? Crystallization as a method for by-product metals recovery and processing. – GEA Process Engineering, Poland**
- 10<sup>15</sup> – 10<sup>40</sup>**     **Control of copper electrolyte impurities using short bed ion exchange.**  
**M. Sheedy, P. Payunen, Eco-Tec Inc, Canada**
- 10<sup>40</sup> – 11<sup>10</sup>     Coffee break

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### Session III

- 11<sup>10</sup> – 11<sup>35</sup>** **Modeling and control of advanced precipitation of multicomponent metal solutions.**  
**A. Harlin, P. Koukkari, J. Sarlin, J. Shan, VTT, Finland**
- 11<sup>35</sup> – 12<sup>00</sup>** **Nickel sulphate recovery from Tank House Electrolyte.**  
**V. Cvetkovski, M. Cvetkovska, M. Vukovic, IRM, Bor, University of Belgrad, Serbia**
- 12<sup>00</sup> – 12<sup>25</sup>** **Elaboration of process conditions for ambient pressure precipitation of arsenic in a form of crystalline scorodite from selected arsenic-bearing waste of copper metallurgy.**  
**J. Piwowońska, Z. Szolomicki, L. Gotfryd, K. Becker, G. Pietek, IMN, Poland**
- 12<sup>25</sup> – 12<sup>50</sup>** **Recovery of gold from WEEE waste using ionic liquids.**  
**J. Parkes, Inter-Euro Technology Ltd, Ireland**
- 12<sup>50</sup> – 13<sup>15</sup>** **Copper by-product metals for production of bulk single crystals of semiconductive compounds.**  
**A. Hruban, ITME, Poland**
- 13<sup>15</sup> – 14<sup>15</sup>** Lunch

### Session IV

- 14<sup>15</sup> – 14<sup>40</sup>** **Selective leaching and recovery of zinc from dusts and slags collected in the iron and steel processing industries.**  
**T. Torok, University of Miskolc, Hungary**
- 14<sup>40</sup> – 15<sup>05</sup>** **Potential recovery of by-product metals during the revival of mining in Saxony.**  
**E. Jannaeck, M. Martin, I. Woloszyn, S. Ehinger, G.E.O.S Ingenieurgesellschaft mbH, Germany**

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**15<sup>05</sup> – 15<sup>30</sup>** **Global availability of lithium as factor of determining the world-wide transformation to electric transportation.**  
**M. Walkowiak, IMN O/Poznań, Poland**

### Special rhenium session

**15<sup>30</sup> – 15<sup>50</sup>** **Recovery of rhenium from acid waste waters.**  
**K. Litwinionek, Gr. Benke, K. Leszczyńska-Sejda, KGHM Ecoren S.A., IMN, Poland**

**15<sup>50</sup> – 16<sup>10</sup>** **Studies into recovery of rhenium from the slimes generated in wet dedusting of gases from shaft furnace process of copper production.**  
**A. Starowicz, A. Olejnik, A. Żurek, KGHM Ecoren S.A., Poland**

**16<sup>10</sup> – 16<sup>30</sup>** **Development of a method for production of high-purity ammonium perrhenate by separation and decomposition of zinc perrhenate ammine from ammonia solutions.**  
**K. Leszczyńska-Sejda, G. Benke, K. Anyszkiewicz, A. Chmielarz, S. Cupiał, IMN, Poland**

16<sup>30</sup> – 17<sup>00</sup> Coffee break

**17<sup>00</sup> – 17<sup>20</sup>** **Studies into separation of rhenium from molybdenum.**  
**G. Benke, K. Leszczyńska-Sejda, K. Anyszkiewicz, A. Chmielarz, IMN, Poland**

**17<sup>20</sup> – 17<sup>40</sup>** **Application of the Polish ammonium perrhenate in the production of sintered W-Ni-Fe-Re heavy metals for cores of armour-piercing projectiles.**  
**T. Majewski, J. Michałowski, J. Piętaszewski, WAT, Poland**

**17<sup>40</sup> – 18<sup>00</sup>** **IMN studies related to processing of rhenium-containing materials.**  
**M. Woch, W. Missol, S. Księżarek, M. Lis, IMN, Poland**

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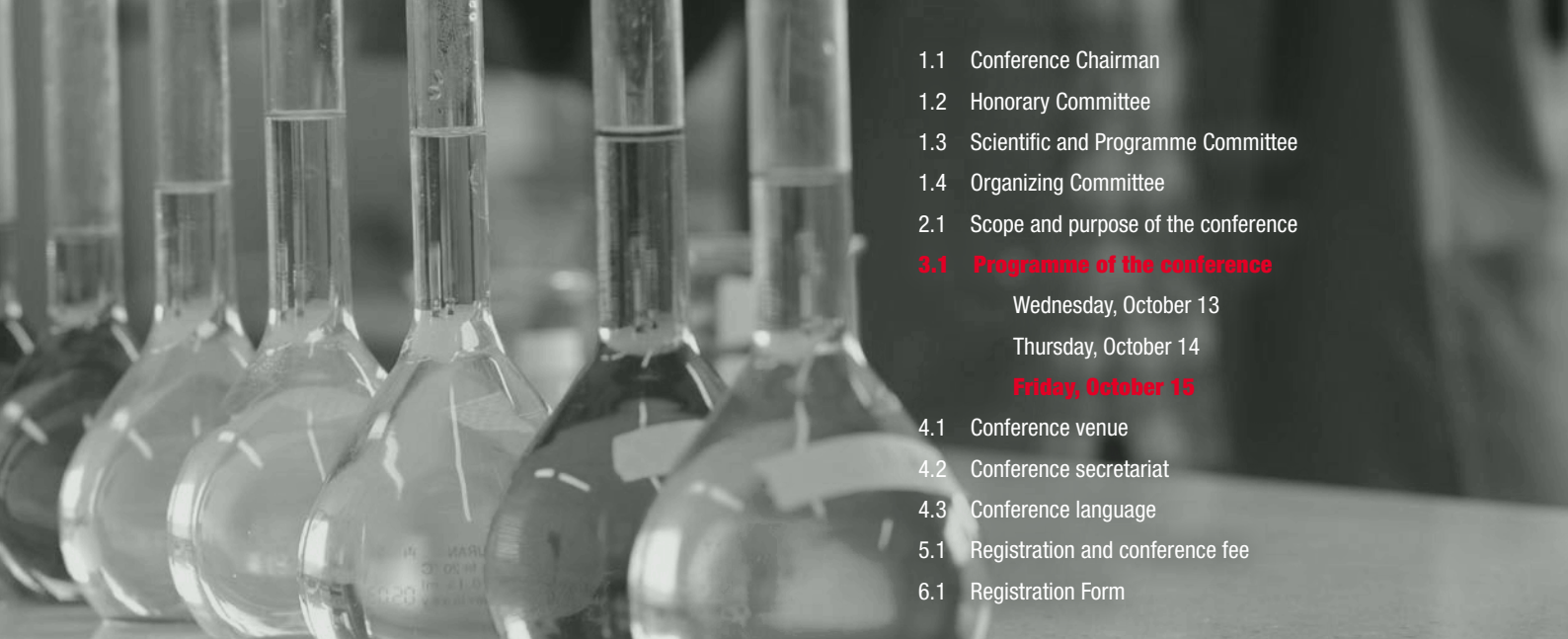
- 18<sup>00</sup> – 18<sup>20</sup>** **Properties of master alloys produced by powder metallurgy for production of rhenium-containing superalloys.**  
**A. Wrona, M. Czepelak, M. Staszewski, M. Woch, M. Kamińska, M. Osadnik, D. Kołacz, IMN, Poland**
- 18<sup>20</sup> – 18<sup>40</sup>** **Synthesis and molecular structure of  $[\text{ReX}_2(\text{N}_2\text{COPh})(\text{L})(\text{PPh}_3)_2]$  complexes.**  
**S. Michalik, B. Machura, R. Kruszyński, J. Kusz, Uniwersytet Śląski, Poland**
- 19<sup>30</sup> Ceremonial dinner

## Friday, October 15

from 8<sup>00</sup> Breakfast

### Session V

- 9<sup>00</sup> – 9<sup>25</sup>** **Investigations into tellurium removal from crude silver in the Kaldor furnace.**  
**K. Rogóż K. Sowa, D. Śliwa, M. Kucharski, AGH, Poland**
- 9<sup>25</sup> – 9<sup>50</sup>** **Investigation into arsenic and tellurium removal from copper.**  
**K. Rogóż, M. Kucharski, AGH, Poland**
- 9<sup>50</sup> – 10<sup>15</sup>** **Melting of precious metals into lead in the processes of battery paste smelting and glazing of the slag with addition of electronic scrap.**  
**R. Prajsnar, IMN, Poland**
- 10<sup>15</sup> – 10<sup>40</sup>** **Basics of the technology of thallium extraction from liquid Pb-Tl metallic solutions.**  
**P. Kapias, J. Gazda, J. Steindor, M. Miłaszewska, Politechnika Śląska, Poland**



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By-Product Metals in Non-Ferrous  
Metals Industry

- 10<sup>40</sup> – 11<sup>05</sup>** **Changeability of by-product metals content in galena during pyrometallurgical process for production of zinc and lead.**  
**Z. Adamczyk, K. Nowińska, E. Melaniuk-Wolny, Politechnika Śląska, Poland**
- 11<sup>05</sup>–11<sup>35</sup> Coffee break
- Session VI**
- 11<sup>35</sup>–12<sup>00</sup>** **Preliminary studies into recovery of products with increased Cu content from ores and concentrates of O/ZWR Lubin.**  
**A. Grotowski, B. Skorupska, N. Kubacz, KGHM Cuprum, IMN, Poland**
- 12<sup>00</sup>–12<sup>25</sup>** **Methods for production of high purity metals as exemplified by antimony, a by-product metal in copper production.**  
**W. Dalecki, A. Hruban, ITME, Poland**
- 12<sup>25</sup>–12<sup>50</sup>** **Application of noble metals in Bi<sub>2</sub>O<sub>3</sub>-Ag and CuO-Ag eutectic systems.**  
**K. Sadecka, M. Gajc, R. Dziduszko, B. Surma, P. Nyga, A. Nikolayenko, D. A. Pawlak, ITME, Poland**
- 12<sup>50</sup> – 13<sup>15</sup>** **Comparison of methods for recovery of platinum from used car batteries.**  
**A. Fornalczyk, M. Saternus, Politechnika Śląska, Poland**
- 13<sup>15</sup> – 13<sup>30</sup>** **Short resume and closing of the conference,**  
**dr A. Chmielarz, President of Scientific and Programme Committee**
- 13<sup>30</sup> Lunch, departure

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## Conference venue

4.1



### Hotel SOFITEL

Wrocław  
 ul. Św. Mikołaja 67  
 tel. + 48 (71) 358 88 85  
 fax + 48 (71) 358 87 10  
 www.sofitel.com

**Sofitel hotel** is conveniently located in the heart of the Wrocław historical center, close to the central square, only 12 km from Wrocław international airport. Many tourist attractions, shops and restaurants are located close-by.



## Conference secretariat

4.2

### Instytut Metali Nieżelaznych

Alicja Skotnicka, Anna Królikowska  
 ul. Sowińskiego 5  
 44-101 Gliwice  
 tel. +48 (32) 238 02 63, 238 04 55  
 fax +48 (32) 238 03 50  
 alicjas@imn.gliwice.pl  
 annak@imn.gliwice.pl

## Conference language

4.3

The languages of the conference are Polish and English. Simultaneous translation will be provided. Speakers will be provided with audio-visual equipment (multimedia projector, laptop, transparency projector, etc).

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## Registration and conference fee

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Please use the attached form for registration and send it to the address of the conference secretariat **before September 20, 2010.**

Conference fee:

**610 EUR – VAT inclusive.**

**Presenting author – 549 EUR – VAT inclusive.**

The fee includes accommodation, full board, participation in sessions, conference materials.

Cost of accommodation for additional night 12/13.10 – 100 EUR (single room) – paid at Hotel Sofitel.

Registration form is also available at: [www.imn.gliwice.pl](http://www.imn.gliwice.pl)

Payment deadline:

**September 20, 2010** at the latest, to IMN Gliwice account:

Instytut Metali Nieżelaznych, VAT ID: 631-20-07-71

IBAN: PL **4812404748111000048771906**,

SWIFT PKO PPLPW

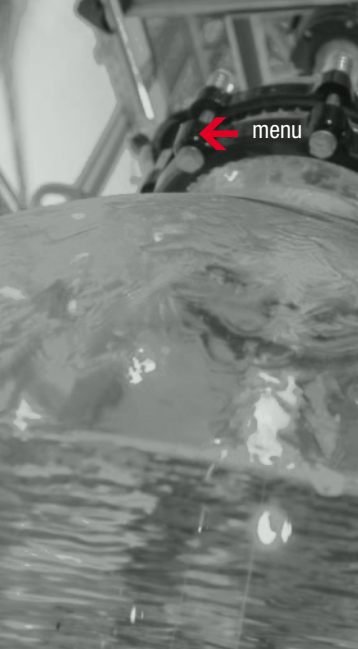
Bank Pekao S.A.

Refund policy:

100% of fee refunded – 14 days or more before the conference

50% of fee refunded – 14-7 days before the conference

0% of fee refunded – 0-6 days before the conference

2<sup>nd</sup> International Conference

## „By-Product Metals in Non-Ferrous Metals Industry”

Hotel Sofitel, Wrocław 13–15.10.2010 r.

Name

Title

Company

Adress

Phone

Fax

e-mail

VAT ID nr

**Participation cost covers:** accommodation, full board, participation in sessions and accompanying events, conference proceedings.

**Participation cost:****610 EUR** – (VAT inclusive) **Presenting author:****549 EUR** – (VAT inclusive) **Additional accommodation 12/13.10.2010 – about 100 EUR to be paid at the Hotel** **Cost of technical trip: 36,60 EUR** – (VAT inclusive) Payments should be made before **September 20, 2010** to:

Instytut Metali Nieżelaznych, VAT ID: 631-20-07-71

IBAN: PL **48124047481111000048771906**, SWIFT PKO PPLPW Bank Pekao S.A.

with a note „AM2010”.

Signature

Date

Delegates interested in participation in the conference are requested to fill in the Registration Form and send it to Conference Secretariat before **September 20, 2010**.

Adress:

**Instytut Metali Nieżelaznych**

ul. Sowińskiego 5, 44 – 101 Gliwice

tel. +48 (32) 238 02 63, 238 04 55, fax +48 (32) 238 03 50

alicjas@imn.gliwice.pl, annak@imn.gliwice.pl, <http://www.imn.gliwice.pl>

\* I agree to have my personal data included in my Registration Form processed for the purposes of the Conference in accordance with the act about the Personal Details Protection dated 29 August 1997

