

DIRECTIONS AND PROBLEMS OF DEVELOPMENT OF THE NON-FERROUS METALS INDUSTRY

Wednesday, November 22, 2023

Registration and lunch – 13.00

Plenary Session – 14.30

Opening of the Conference:

- **Barbara Juszczuk** – President of SITMN, Director of the Łukasiewicz Research Network – Institute of Non-Ferrous Metals,
- **Zbigniew Śmieszek** – Honorary President of SITMN,
- **Bogusław Ochab** – Chairman of the Council of the Economic Chamber of Non-Ferrous Metals and Recycling,
- **Kazimierz Poznański** – Chairman of the Economic Chamber of Non-Ferrous Metals and Recycling.

Session I 15.00 – 19.00

1. "Understanding and pushing the limits of the circular economy through digital twinning" **Markus Reuter, SMS Group**
2. "Digital shortcut detection in Cu tank house" **Regina Krenn, Mettop GmbH**
3. "EIT RawMaterials – driving innovation and entrepreneurship in the resource industry" **Krzysztof Kubacki, EIT RawMaterials**

Coffee break

4. "Regulatory challenges and needs of the European non-ferrous metals industry" **Kamila Słupek, Eurometaux**
5. "From Customer Challenges into Innovations –Metso - the Partner for Positive Change" **Mariusz Franek, Metso Outotec Poland Sp. z o.o.**
6. "Ensuring the required corrosion resistance of refractory materials in connection with possible changes in manufacturing processes in the non-ferrous metals industry" **Klaudia Wiśniewska-Tobiasz, ZM „Ropczyce” S.A.**

Dinner, at 20.00, the 'Dwór Polski' Restaurant – Rynek 5

We would like to invite you to the 16th-century interiors, which will allow you to relax in the spirit of the past and even travel back in time

Thursday, November 23, 2023

Session II 9.00 – 13.00 Metallurgy of copper

1. "The contribution of the Łukasiewicz – IMN metallurgical centres to the development of the non-ferrous metals industry" **Tadeusz Gorewoda, Łukasiewicz – IMN**
2. **KGHM Polska Miedź S.A. „Głogów” Copper Smelter**
3. "Implementation of the steel industry development strategy at KGHM using effective processing based on the assumptions of the Circular Economy on the example of the Legnica Copper Smelter" **Mariusz Horbal, KGHM Polska Miedź S.A. “Legnica” Copper Smelter**
4. "Problems and challenges in the area of decarbonization for the non-ferrous metals recycling industry" **Marcin Kalembka, Messer Polska Sp. z o.o.**
5. "R&D works as a tool for the development of the non-ferrous metals industry on the example of the project entitled "H-tech ($\alpha+\beta$) Brass - A new generation of super-precise drawn products made of two-phase brass for the use in highly advanced processing technologies" **Maciej Nowak, Dominika Pajda – Walcownia Metali „Dziedzice” S.A.**

Coffee break

6. "Anti-pathogenic copper coatings obtained by current and electroless deposition methods" – **Joanna Wojewoda-Budka IMIM**
7. "Activities of the Walcownia Metali Nieżelaznych "ŁABĘDY" S.A. in the face of current problems and challenges of the non-ferrous metals industry" **Paweł Kowalczyk, Michał Nawrat, Walcownia Metali Nieżelaznych „Łabędy” S.A.**
8. "20 years of Fenix Metals - a success story" **Paweł Barteczko, Fenix Metals Sp. z o.o.**
9. "Opportunities for the development of the production potential of KGHM Polska Miedź S.A. Cedynia Copper Smelter" **Ryszard Jaśkowski, KGHM Polska Miedź S.A. „Cedynia” Copper Smelter**
10. "A new generation of self-supporting low-loss overhead power cables" **Artur Kawecki, Tadeusz Knych, Andrzej Mamala, Beata Smyrak - AGH w Krakowie, Wydział Metali Nieżelaznych, Wojciech Głuchowski, Zbigniew Rdzawski - Sieć Badawcza Łukasiewicz - Instytut Metali Nieżelaznych w Gliwicach, Jakub Siemiński, Mariusz Tokarski - TeleFonika Kable SA, Piotr Kwapisiński, Katarzyna Rogóż, Wojciech Sygnatowicz - KGHM Polska Miedź SA, Lech Bejski, Tomasz Różycki - TAURON Dystrybucja SA, Krzysztof Ściobłowski - Eltel Networks Engineering SAAGH – WMN**
11. "Development of rhenium technologies in Poland in the 21st century" **Katarzyna Leszczyńska – Sejda, Łukasiewicz – IMN**

Lunch – 13.00

Session III 14.00 – 19.00 Metallurgy of aluminum and zinc

1. "Navigating the EU Regulatory Landscape – ensuring Zinc can fulfil its key role as a Strategic Material of the Sustainable future" **Howard Winbow, International Zinc Association**
2. "Directions and problems of the development of the zinc industry in the ZGH "Bolesław" Capital Group S.A." **Bogdan Pieczonka, ZGH „Bolesław” S.A.**
3. "Modern design of automotive heat exchangers using multilayer strips produced at Gränges Konin S.A." **Paweł Rutecki, Gränges Konin S.A.**
4. "Polish aluminum industry: is this the end of the economic downturn?" **Andrzej Michalski - Stępkowski, The Polish Aluminium Association**
5. "Research on the technology of production of the aluminum and aluminum alloy pipes using the Conform continuous extrusion method" **Piotr Uliasz, Mirosław Buciak, Mieczysław Paciorek, Łukasz Wodziński NPA Skawina Sp. z o.o., Wojciech Szymański, Mateusz Węgrzyn, Monika Mitka Łukasiewicz - IMN Skawina Division**

Coffee break

6. "Development of a technology for production of aluminum wire rod intended for low-loss overhead wires dedicated to power distribution lines" **Piotr Uliasz, Mirosław Buciak, Mieczysław Paciorek, Łukasz Wodziński, NPA Skawina Sp. z o.o., Bogusław Augustyn, Sonia Boczkał, Dawid Kapinos, Andrzej Kłyszewski Łukasiewicz - IMN Skawina Division**
7. "Innovations and development directions in aluminum alloy extrusion technology" **Dariusz Leśniak, AGH – WMN**
8. **Innovation transfer in Li-ion battery recycling – workshops presenting the results of the Relion project**

Dinner, at 20.00 – Rynek Ratusz 2. We would like to invite you to the „Spiz” Restaurant, the first mini-brewery in Poland, which has been operating since June 1992. In the historic interiors of the Wrocław Town Hall began the brewing of “Spiz” beer from the recipes developed by Bogdan Spiz.

...who drinks the golden drink will not be afraid of fear...

Friday, November 24, 2023

Sesja IV 9.00 - 13.00

1. "The current offer of Horizon Europe for the non-ferrous metals sector" **Jarosław Piekarski - NCBR**
2. "Metal powders - technologies in the aspect of current market needs" **Adriana Wrona, Łukasiewicz – IMN**

3. "Industry of the Future 5.0 – challenges, threats, expectations" **Krzysztof Żaba, AGH – WMN**
4. „New generation cap electrodes for resistance welding systems" **Krzystian Franczak, AGH – WMN**
5. "Directions of development of Al alloys in terms of modification of their chemical compositions" **Dawid Kapinos, Bogusław Augustyn, Bartłomiej Płonka, Sonia Boczek, Wojciech Szymański, Kamila Limanówka, Mateusz Węgrzyn, Marek Nowak, Piotr Korczak, Andrzej Kłyszewski, Łukasiewicz – IMN Oddział w Skawinie**
6. "Recycling in the projects of the Łukasiewicz - IMN Light Metals Centre on the background of the development directions of the light metals industry" **Sonia Boczek, Wojciech Szymański, Bogusław Augustyn, Dawid Kapinos, Bartłomiej Płonka, Joanna Hrabia-Wiśnios, Andrzej Kłyszewski, Łukasiewicz - IMN Skawina Division**
7. "Analysis of metal flow in the die in the process of extrusion of Al tubes and Al alloys using the CRE method" **Piotr Korczak, Bartłomiej Płonka, Krzysztof Remsak Łukasiewicz - IMN Skawina Division**

Summary and closing of the Conference

Lunch – 13.00