

Mineral Engineering Conference MEC2017

Wisła, September 20-23, 2017

Organized by:















First Announcement

Media sponsorship:







Mineral Engineering Council (MEC Council)

The MEC Council is a body elected from the organizing and supporting Mineral Engineering Conference institutions, and is responsible for choosing the date and venue of the MEC conference and ensuring a high standard of the conference. The Members of the MEC Council are:

Dariusz Foszcz – AGH University of Science and Technology, Kraków
Przemyslaw B. Kowalczuk – Wrocław University of Technology
Marcin Lutyński – Silesian University of Technology, Gliwice
Witold Pawlos – KGHM Polska Miedź S.A., Lubin
Andrzej Grotowski – KGHM Cuprum Research & Development Centre, Wrocław
Andrzej Wieniewski – Institute of Non-Ferrous Metals, Gliwice

Conference Chairman

Zbigniew Śmieszek – Institute of Non-Ferrous Metals

Honorary Committee of MEC2017

Honorary Chairmen

Kazimierz Sztaba – Honorary Professor AGH University of Science and Technology *Janusz Laskowski* – Profesor University of British Columbia, Canada

Radosław Domagalski-Łabędzki - President of the Board of KGHM Polska Miedź S.A.

Piotr Dytko - President of the Board of KGHM CUPRUM sp. z o.o.,CBR

Bogdan Kuźba - Director of O/ZWR KGHM "Polska Miedz" S.A.

Cezary Madryas - Rector of Wroclaw University of Science and Technology

Arkadiusz Mężyk - Rector of Silesian University of Technology

Bogusław Ochab - President of Board ZGH "Bolesław" S.A

Tadeusz Słomka - Rector of AGH University of Science and Technology

Programme Council of MEC2017

Chairman— Andrzej Wieniewski
Vice Chairman— Andrzej Chmielarz
Tomasz Chmielewski
Jan Drzymała
Andrzej Grotowski
Ewelina Kasińska-Pilut
Przemysław B. Kowalczuk
Marcin Lutyński
Tomasz Niedoba
Bożena Skorupska
Barbara Tora

Scientific Committee of the Conference

Ireneusz Baic, Instytut Mechanizacji Budownictwa i Górnictwa Skalnego, Katowice Wiesław Blaschke, Polska Akademia Nauk, Kraków Stanisław Chibowski, Uniwersytet Marie Curie-Skłodowskiej, Lublin Andrzej Chmielarz , Instytut Metali Nieżelaznych, Gliwice Tomasz Chmielewski, Politechnika Wrocławska, Wrocław Jan Drzymała, Politechnika Wrocławska, Wrocław Dariusz Foszcz, Akademia Górniczo-Hutnicza, Kraków Tomasz Gawenda, Akademia Górniczo-Hutnicza, Kraków Janusz Girczys, Politechnika Częstochowska, Częstochowa

Andrzej Grotowski, KGHM Cuprum Badawczo-Rozwojowe, Wrocław Jan Hupka, Politechnika Gdańska, Gdańsk Teofil Jesionowski, Politechnika Poznańska, Poznań Andrzej Konieczny, KGHM Polska Miedź S.A., Lubin Przemysław B. Kowalczuk, Politechnika Wrocławska, Wrocław Aleksander Lutyński, Instytut Techniki Górniczej KOMAG, Gliwice Marcin Lutyński, Politechnika Śląska, Gliwice Andrzej Łuszczkiewicz, Politechnika Wrocławska, Wrocław Kazimierz Małysa, Polska Akademia Nauk, Kraków Tomasz Niedoba, Akademia Górniczo-Hutnicza, Kraków Paweł Nowak, Polska Akademia Nauk, Kraków Witold Pawlos, KGHM Polska Miedz S.A., Lubin Joachim Pielot, Politechnika Śląska, Gliwice Aleksandra Potulska, KGHM Cuprum Badawczo-Rozwojowe, Wrocław Ireneusz Pyka, Główny Instytut Górnictwa Tomasz Ratajczak, Politechnika Wrocławska, Wrocław Zygmunt Sadowski, Politechnika Wrocławska, Wrocław Daniel Saramak, Akademia Górniczo-Hutnicza, Kraków Bożena Skorupska, Instytut Metali Nieżelaznych, Gliwice Tomasz Suponik, Politechnika Śląska, Gliwice Agnieszka Surowiak, Akademia Górniczo-Hutnicza, Kraków Barbara Tora, Akademia Górniczo-Hutnicza, Kraków Andrzej Wieniewski, Instytut Metali Nieżelaznych, Gliwice Piotr Wodziński, Politechnika Częstochowska, Częstochowa

International Scientific Committee MEC2017

El-Sayed Abdel-Aal, Central Metallurgical R&D Institute, Egypt Emre Naci Altun, Middle East Technical University, Turkey Corby Anderson, Colorado School of Mines, USA Jari Aromaa, Aalto University, Finland Vedat Deniz, Hitit University, Corum, Turkey Olof Forsen, Aalto University, Finland Hylke J Glass, Camborne School of Mines, Univ. Exeter, UK Shekwonyadu Iyakwari, Nasarawa State University, Nigeria Janusz Laskowski, University of British Columbia, Canada Dariusz Lelinski, FLSmidth, USA Mari Lundstrom, Aalto University, Finland Jan D. Miller, University of Utah, USA Bahri Oteyaka, Osmangazi University, Turkey Pradip, Tata R&D Design Centre, India Fereshteh Rashchi, University of Tehran, Iran Oktay Sahbaz, Dumlupinar University, Turkey Yakup Umucu, Suleyman Demirel University, Turkey

Organizing Committee MEC2017

Chairman – Andrzej Wieniewski Vice Chairman – Bożena Skorupska Anna Królikowska Kinga Lis Adam Mańka Alicja Skotnicka

Łukasz Skrzypiec Kornel Tobiczyk Jolanta Tokarczyk

Scope and purpose of the conference

On behalf of the Organizing Committee and MEC Council we have a pleasure to invite you to take part in the Mineral Engineering Conference MEC2017, which will be held September 20-23, 2017 in Gołębiewski Hotel in Wisła, Poland.

MEC2017 is a second joined conference, consisting of XIII International Conference on Non-Ferrous Ore Processing, XXII International Conference of Mineral Processing, and LIV Symposium of Physicochemical Problems of Mineral Processing.

MEC2017 is organized by the Institute of Non Ferrous Metals in cooperation with the Wroclaw University of Science and Technology, AGH University of Science and Technology, Silesian University of Technology, KGHM Polska Miedz S.A., KGHM Cuprum Research & Development Centre and Association of Engineers and Technicians of Non Ferrous Metals (SITMN).

Scope of the conference

The annual meeting is aimed at promotion of effective collaboration between business and academia. You will have a great opportunity to present and discuss theoretical ideas and their practical applications in all aspects of mineral processing and coal preparation. The conference will cover the following topics:

- Advanced mineralogy
- Automation and control of processes
- Innovative construction of processing equipment
- Mineralogical separations (magnetic, electric, gravity separations and flotation, coagulation, agglomeration, comminution, screening, dewatering, drying, sampling etc.)
- Hydro- and biohydrometallurgy
- Modification of minerals properties
- · Recycling and mineral waste
- Environmental aspects of mineral processing.

Key dates

January 2017 – Registration, payment and abstract/paper submission open

June 1, 2017 – Call for abstract ends

July 1, 2017 – Decision on abstract or paper acceptance

July 1, 2017 – Author registration ends, conference fee

August 18, 2017 – End of delegate registration, conference fee and hotel reservation

September 20-23, 2017 – MEC2017

November, 2017 – post-conference publication online of the MEC2017 proceedings

Call for papers

The conference presentation can be delivered in either oral or poster form after acceptance by the Organizing Committee based on either submitted abstracts or whole papers. The presentation should deal with widely understood mineral processing and physicochemical aspects of minerallurgical, biometallurgical and hydrometallurgical processes and ecology issues. According to the author(s) wish, they will be printed in the Proceedings of the Mineral Engineering Conference MEC2017 either in a form of abstract or full paper. The MEC2017 proceedings will be published with E3S Web of Conferences and indexed by ISI Web of Science. Each publication will have a unique doi number. For Polish Scientists, publication of a full paper (article) in conference proceedings included in the Web of Science, provides a number of points of Ministry of Science and Higher Education (MNiSW). The number of points is equal to that offered by the best journals without the Impact Factor (IF) (list B). Such a publication may reward you with 15 points. Please note that each institutions can have different rules. For more information ask a responsible person from your institution.

The proceedings of the Mineral Engineering Conference MEC2016 have been published by the E3S Web of Conferences and are available on line at :

http://www.e3s-conferences.org/articles/e3sconf/abs/2016/03/contents/contents.html

Either abstract (1 page) or full paper (max. 10 pages) should be submitted as a MS Word document via email: alicjas@imn.gliwice.pl or annak@imn.gliwice.pl. The deadline for submitting your contribution, which will be included in the Proceedings of the Mineral Engineering Conference MEC2017, is June 16, 2017. Confirmation of acceptance will be sent to the authors before July 1, 2017.

The papers should be edited according to the instruction provided in the file- **Guidelines for authors**, and available at http://www.e3s-conferences.org/for-authors.

The authors who are not interested in publication of their paper in the E3S Web of Conferences journal are asked to submit a paper or presentation in any form in the English language, observing the specified deadlines. The paper will be included in the conference proceedings containing all the presentations and distributed in an electronic form among conference participants. Papers should be sent to the addresses: alicipaccentralequate. annak@imn.gliwice.pl

Authors must be registered before July 1, 2017, to have their abstracts / articles published in the MEC2017 conference proceedings.

As usual, young scientists (below 35 years of age) will be awarded for best paper and poster.

Registration can by made through conference web site: http://mec2017.selsite.pl/

General programme of the conference

Wednesday, 20 September 2017

12:00 – 15:00 Registration 13:30 – 16:00 Lunch

15:15 - 15:30 Opening Ceremony

Prof. Zbigniew Śmieszek – Chairman of MEC2017 Conference President of the Board of KGHM Polska Miedź S.A. President of the Board of ZGH Bolesław S.A.

15:30 - 17:30 Plenary Session

19:00 Dinner

Thursday, 21 September 2017

7:00 - 11:00 Breakfast

9:30 - 13:20 Session I Mineral Engineering

9:30 - 13:20 Session II Hydrometallurgy

9:30 - 13:20 Session III Mineral Processing

13:30 - 16:00 Lunch

15:00 - 17:00 Session IV Mineral Engineering

15:00 – 17:00 Session V Hydrometallurgy

15:00 - 17:00 Session VI Mineral Processing

17:30 Meeting of MEC2017 Conference Council, publishers and invited guests

20:00 Regional dinner

Friday, 22 September 2017

7:00 - 11:00 Breakfast

8:00 Technical trip to ZGH Bolesław S.A.

13:30 – 16:00 Lunch 16:00 – 17:30 Poster session 19:00 Ceremonial dinner

Saturday, 23 September 2017

7:00 – 11:00 Breakfast 9:30 – 13:15 Session VII Mineral Engineering 13:15 – 13:30 Closing of the conference

13:30 -16:00 lunch

Registration and fees

The registration fee includes the full cost of accommodation, conference proceedings, participation in sessions, coffee breaks, lunches, dinners: traditional, ceremonial, regional

Costs for authors:

- With accommodation in a single room 910,20 EUR
- With accommodation in a shared double room 805,70 EUR (for 1 person)
- without accommodation 602,70 EUR

Costs for other participants:

- With accommodation in a single room 984 EUR
- With accommodation in a shared double room 879,50 (for 1 person)
- without accommodation 676,50 EUR

Cost of technical trip - 36,90 EUR

Costs for students:

- With Accomodation in Hotel Gołębiewski 848,70 EUR (accommodation in a room with 3 beds/1 person)
- With Accomodation in Hotel JUR GAST 664,20 EUR

Costs for accompanying person - 664,20 EUR

The conference fees should be paid to:

Stowarzyszenia Inżynierów i Techników Metali Nieżelaznych (SITMN): ul. Sowińskiego 5, 44-100 Gliwice

Bank BGŻ BNP Paribas, IBAN: PL87 2030 0045 1110 0000 0246 2630, SWIFT: GOPZPLPW

with a note: MEC2017 and full name of the participant

Conference venue, accommodation

The MEC2017 Mineral Engineering Conference will be held at the Hotel Golebiewski in Wisla. The hotel is situated on the slopes of Bukowa, overlooking the Vistula River. The windows of the hotel offer a unique view of the beautiful places in the Silesian Beskids.

More about the hotel at: www.golebiewski.pl

Conference language

The languages of the conference are Polish and English. Simultaneous translation will be provided.

Contact:

Alicja Skotnicka:alicjas@imn.gliwice.pl Anna Królikowska:imn.gliiwce.pl