

CONFERENCE FEE

The conference fee is 1600,00 PLN to be paid by bank transfer to the account of Instytut Obróbki Plastycznej, ul. Jana Pawła II nr 14, 61-139 Poznań, Poland

Bank Zachodni WBK S.A. in Poznań

No. 84 1090 1346 0000 0000 3400 0296, SWIFT: WBKPPLPP,

with the note: „Konferencja” and the Participant's name and surname.

The conference fee includes: food, accompanying events, conference materials and other organization costs. The cost of accommodation in the period of 21–23 september 2016 (2 nights) are to be paid by the Participants individually at the hotel:

a single room – 2 x 250,00 PLN (for 1 person)
a double room – 2 x 170,00 PLN (for 1 person)

A detailed programme of the Conference and application form can be found at: www.kontech.info.pl

INFORMATION FOR PARTICIPANTS

LANGUAGES OF THE CONFERENCE

The papers will be presented in Polish or in English.

CONFERENCE PLACE

Pałac Mierzęcin
Mierzęcin 1
66-520 Dobiegiew, woj. lubuskie, Poland
www.palacmierzecin.eu

TRANSPORT

Map for the participants can be found at:
<http://www.palacmierzecin.eu/contact/location/>

IMPORTANT TERMS

Notification of participation with poster – 31.05.2016
With the participation notice to 31 may 2016 should be sent poster abstracts in English, each with a volume of 200-250 words, in order to place them in the conference materials. The organizer provides stands of size 90x110 cm and a place for roll-up exposure.

Notification of participation without poster – 31.07.2016

Payment of the conference fee – 31.07.2016

HONOURABLE PATRONAGE

Minister of Science and Higher Education



Ministry of Science
and Higher Education

Republic of Poland



CONFERENCE ORGANIZERS

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CONFERENCE SECRETARIAT

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INVITATION

KONTECH

XXI
INTERNATIONAL
SCIENTIFIC
AND TECHNICAL
CONFERENCE

ADVANCED
FORMING
TECHNOLOGIES
AND
NANOSTRUCTURED
MATERIALS



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21-23
SEPTEMBER
2016
MIERZĘCIN

SCIENTIFIC PATRONAGE

The Committee on Materials Science
of the Polish Academy of Sciences

SCIENTIFIC COMMITTEE

- Prof. Leopold Berkowski – Metal Forming Institute, Poznań, Poland
Prof. Leszek Blacha – Silesian University of Technology, Gliwice, Poland
Prof. Włodzimierz Bochniak – Metal Forming Institute, Poznań, Poland
Prof. Leszek A. Dobrzański – Silesian University of Technology, Gliwice, Poland
- Prof. Henryk Dyja – Częstochowa University of Technology, Częstochowa, Poland
Prof. Monika Gierzyńska-Dolna – Metal Forming Institute, Poznań, Poland
Prof. Zbigniew Gronostajski – Wrocław University of Technology, Poland
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- Prof. Mikhail Ignatev – Metal Forming Institute, Poznań, Poland
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Prof. Mieczysław Jurczyk – Poznań University of Technology, Poland
Prof. Jiří Klíber – VŠB – Technical University of Ostrava, Republika Czeska
Prof. Leszek Klimek – Lodz University of Technology, Poland
Prof. Andrzej Kocańda – Warsaw University of Technology, Poland
Prof. Andrzej Korbel – Metal Forming Institute, Poznań, Poland
Prof. Alexander Laptev – Forschungszentrum Jülich GmbH, Institute for Energy and Climate Research, Jülich, Germany
Prof. Stanisław Legutko – Poznań University of Technology, Poland
Prof. Volf Leshchynsky – Metal Forming Institute, Poznań, Poland
Prof. Dariusz Leśniak – AGH University of Science and Technology, Kraków, Poland
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Prof. Roman Maev – University of Windsor, Windsor, Ontario, Canada
Prof. Bogusław Major – Institute of Metallurgy and Materials Science, Polish Academy of Sciences, Kraków, Poland
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Prof. Zbigniew Pater – Lublin University of Technology, Poland
Prof. Maciej Pietrzyk – AGH University of Science and Technology, Kraków, Poland
Prof. Maria Richert – AGH University of Science and Technology, Kraków, Poland
Prof. Stanislav Rusz – VŠB – Technical University of Ostrava, Czech Republic
Prof. Wolfram Scharff – IfU Diagnostic Systems GmbH, Lichtenau, Niemcy
Prof. Stefan Szczepaniak – AGH University of Science and Technology, Kraków, Poland
Prof. Wojciech Szkliniarz – Silesian University of Technology, Katowice, Poland
Prof. Zbigniew Śmieszek – Institute of Non Ferrous Metals, Gliwice, Poland
Prof. Michał Wieczorowski – Poznań University of Technology, Poland
Prof. Hanna Wiśniewska-Weinert – Metal Forming Institute, Poznań, Poland
Prof. Mykhaylo V. Zagirnyak – Kremenchuk State Polytechnical University, Ukraine
Prof. Józef Zasadziński – AGH University of Science and Technology, Kraków, Poland
Prof. Paweł Zięba – Institute of Metallurgy and Materials Science, Polish Academy of Sciences, Kraków, Poland

PROGRAMME

WEDNESDAY 21.09.2016

- 12.00-14.00 – Registration of Participants
13.30-15.00 – Lunch
15.00-16.40 – **Plenary session I: Advanced engineering materials and investigation of them. Part A**
Session chairmen:
Prof. Wolfram Scharff – IfU Diagnostic Systems GmbH, Lichtenau, Niemcy
Prof. Zbigniew Pater – Lublin University of Technology, Poland
- 15.00-15.10 – **Welcome of the Participants**
Prof. Hanna Wiśniewska-Weinert – Metal Forming Institute, Poznań, Poland
- 15.10-15.25 – **Energy dissipation and instability process based on plastometric tests**
Prof. Jiří Klíber – VŠB – Technical University of Ostrava, Czech Republic
- 15.25-15.40 – **New explosive deformation and coating techniques and applications**
Prof. Mykhaylo V. Zagirnyak – Kremenchuk Mykhailo Ostrohradskyi National University, Kremenchuk, Ukraine
- 15.40-15.55 – **Ultrasonic diagnostic imaging research**
Prof. Roman Maev – University of Windsor, Canada
- 15.55-16.10 – **Influence of changes in the parameters of the forming tool on the grain refinement in non-ferrous alloys by SPD process**
Prof. Stanislav Rusz – VŠB – Technical University of Ostrava, Czech Republic
- 16.10-16.25 – **Modern methods for characterisation of solid materials by using of electron beams**
Prof. Wolfram Scharff – IfU Diagnostic Systems GmbH, Lichtenau, Germany
- 16.25-16.40 – **Kinetics of phase transformations in steels influenced by hot forming conditions**
Prof. Ivo Schindler – VŠB – Technical University of Ostrava, Czech Republic
- 16.40-17.00 – **Coffee break**
- 17.00-18.30 – **Plenary session II: Advanced engineering materials and investigation of them. Part B**
Session chairman:
Prof. Stanislav Rusz – VŠB – Technical University of Ostrava, Czech Republic
Prof. Zbigniew Gronostajski – Wrocław University of Technology, Poland
- 17.00-17.15 – **Modeling as a tool for understanding and improvement of Spark Plasma Sintering Technique**
Prof. Alexander Laptev – Forschungszentrum Jülich GmbH, Institute for Energy and Climate Research Jülich, Germany
- 17.15-17.30 – **Development of a new CrFe-WC cemented carbide processed by field assisted sintering techniques**
Dr Andrea García-Junceda – IMDEA Materials Institute, Madrid Institute for Advanced Studies of Materials, Madrid, Spain

- 17.30-17.45 – **Odporność korozyjna powłok cynkowych na bazie Al i Mg**
Prof. Leszek Klimek – Lodz University of Technology, Poland
- 17.45-18.00 – **Synthesis and properties of bulk Mg-based alloys with ultrafine grained microstructure**
Prof. Mieczysław Jurczyk – Poznań University of Technology, Poland
- 18.00-18.15 – **Advanced powder forging and sintering technologies of components manufacturing**
Prof. Volf Leshchynsky – Metal Forming Institute, Poznań, Poland
- 18.15-18.30 – **Discussion**
- 20.00-01.00 – **Solemn dinner**

THURSDAY 22.09.2016

- 07.30-09.30 – **Breakfast**
- 09.30-13.00 – **Visitation of SPARTHERM Sp. z o.o. company in Strzelce Krajeńskie (approx. 30 km from Mierzęcin)**
- 13.00-14.00 – **Lunch**
- 14.30-15.45 – **Plenary session III: Advanced metal forming technologies**
Session chairman:
Prof. Jiří Klíber – VŠB – Technical University of Ostrava, Czech Republic
Prof. Leszek Klimek – Lodz University of Technology, Poland
- 14.30-14.45 – **Walcowanie śrubowo-klinowe**
Prof. Zbigniew Pater – Lublin University of Technology, Poland
- 14.45-15.00 – **Kształtowanie blach ze stopu aluminium 7xxx**
Prof. Zbigniew Gronostajski – Wrocław University of Technology, Poland
- 15.00-15.15 – **Ocena odkształcalności i zgrzewalności wysokoskładnikowych stopów AlMg w procesie wyciskania**
Prof. Dariusz Leśniak, AGH University of Science and Technology, Kraków, Poland
- 15.15-15.30 – **Właściwości wytrzymałościowe wyciskanych profili ze stopów AlMg**
Dr inż. Jacek Borowski – Metal Forming Institute, Poznań, Poland
- 15.30-15.45 – **Discussion**
- 16.00-17.30 – **Jubilee Session of the 50th anniversary of work in Metal Forming Institute of prof. Leopold Berkowski (coffee)**
- 17.30-19.00 – **Poster session (coffee)**
Project meeting about the project EXALU5000: „Opracowanie innowacyjnej technologii wyciskania kształtowników z trudnoodkształcalnych stopów aluminium serii 5xxx”
- 19.00-24.00 – **Dinner barbecue with attractions**

FRIDAY 23.09.2016

- 07.30-10.30 – **Breakfast (Departure of Participants)**