

CONFERENCE PROGRAMME

LIST OF PARTICIPANTS

January 15–18, 2017, Zakopane, Poland

International Scientific Committee

Markus BAMBACH	Brandenburg University of Technology, Cottbus, Germany
Dorel BANABIC	University of Cluj-Napoca, Romania
Thierry BARRIERE	FEMTO-ST Institute, Besancon, France
Marc BERNACKI	CEMEF-MINES ParisTech, Sophia-Antipolis, France
Bruno BUCHMAYR	University of Leoben, Austria
Tadeusz BURCZYŃSKI	IPPT PAN, Warszawa, Poland
Witold CECOT	Cracow University of Technology, Poland
Jose CESAR DE SA	University of Porto, Portugal
Andrea GHIOTTI	The University of Padova, Italy
Zbigniew GRONOSTAJSKI	Wrocław University of Technology, Poland
Anne-Marie HABRAKEN	The University of Liege, Belgium
Rudolf KAWALLA	TU-Bergakademie Freiberg, Germany
Michał KLEIBER	IPPT PAN, Warszawa, Poland
Andrzej KOCAŃDA	Warsaw University of Technology, Poland
Jan KUSIAK	AGH University of Science and Technology, Kraków, Poland
Jari LARKIOLA	University of Oulu, Finland
Stefan LUDING	The University of Twente, The Netherlands
Xavier OLIVER	UPC Technical University of Catalonia, Barcelona, Spain
Maciej PASZYŃSKI	AGH University of Science and Technology, Kraków, Poland
Pavel PETROV	Moscow State Technical University, Russia
Jerzy ROJEK	IPPT PAN, Warszawa, Poland
Norbert SCZYGIEL	Częstochowa University of Technology, Poland
Jan SLADEK	Slovak Academy of Sciences, Bratislava, Slovakia
Christof SOMMITSCH	Graz University of Technology, Austria
Bartłomiej WIERZBA	Rzeszow University of Technology, Poland
Bradley WYNNE	The University of Sheffield, UK

Steering Committee

Maciej PIETRZYK	AGH University of Science and Technology, Kraków, Poland
Franciszek GROSMAN	Silesian University of Technology, Katowice, Poland

Conference Chairs

Danuta SZELIGA
Łukasz RAUCH
AGH University of Science and Technology, Kraków, Poland

Conference Secretary

Anna SMYK
AGH University of Science and Technology, Kraków, Poland

Local Organizer



Partners



Department of Applied Computer Science and Modelling
Faculty of Metals Engineering and Industrial Computer Science
AGH UNIVERSITY OF SCIENCE AND TECHNOLOGY



Department of Materials Technology
Faculty of Materials Science and Metallurgy
SILESIAN UNIVERSITY OF TECHNOLOGY

Supporting Organisations



European Community on Computational Methods
in Applied Sciences
ECCOMAS



Metal Forming Section, Metallurgy Committee
POLISH ACADEMY OF SCIENCES



Centre of Computer Technology in Metallurgy
and Materials Science
CEKOMAT



Polish Association for Computational Mechanics

KomPlasTech History

Number	Year	Place	Number of papers
I	1993	AGH Kraków	18
II	1995	Wisła	26
III	1996	Koninki	27
IV	1997	Ustroń-Jaszowiec	28
V	1998	Bukowina Tatrzańska	36
VI	1999	Szczyrk	28
VII	2000	Krynica-Czarny Potok	35
VIII	2001	Korbielów	24
IX	2002	Szczawnica	41
X	2003	Wisła-Jawornik	33
XI	2004	Zakopane	46
XII	2005	Ustroń	33
XIII	2006	Szczawnica	42
XIV	2007	Zakopane	53
XV	2008	Korbielów	28
XVI	2009	Krynica-Zdrój	54
XVII	2010	Białyka Tatrzańska	31
XVIII	2011	Zakopane	86
XIX	2012	Szczyrk	38
XX	2013	Zakopane	84
XXI	2014	Wisła Malinka	37
XXII	2015	Krynica-Zdrój	79
XXIII	2016	Wisła	31
XXIV	2017	Zakopane	76

Sponsor



Venue



ARIES Hotel & SPA
Mariusza Zaruskiego 5, Zakopane

Sunday, 15th January

17:00–21:00 Sunday evening, *Hotel ARIES*

17:00–20:00 Registration, *Main Hall*

19:00–21:00 Reception, *Halka Restaurant*

Monday, 16th January

9:00–10:20 Plenary lectures, *Room Aspen, page 11*

10:20–10:40 Coffee break

10:40–12:40 Lectures:

Material testing, *Room Aspen, page 12*

Complex materials, *Room Zakopane, page 13*

12:40–13:40 Lunch, *Halka Restaurant*

13:40–15:40 Lectures:

Multiscale modelling, *Room Aspen, page 14*

Advanced Mathematical Modelling, *Room Zakopane, page 15*

15:40–16:00 Coffee break

16:00–18:00 Lectures:

Computing, *Room Aspen, page 16*

Phase transformations, *Room Zakopane, page 17*

19:00 Regional evening, *Bąkowo Zohylina Niżnio Restaurant (Piłsudskiego 6, Zakopane)*

Tuesday, 17th January

8:30–13:00 Winter sports, (*Skiing / Excursion*)

13:00–14:00 Lunch, *Halka Restaurant*

14:00–14:40 Plenary lecture, *Room Aspen, page 11*

14:40–16:40 Lectures:

Numerical modelling of material processing – in honour of Professor Maciej Pietrzyk,
Room Aspen, page 18

Genetic algorithms in materials design and processing, *Room Zakopane, page 19*

16:40–17:00 Coffee break

17:00–19:00 Lectures:

Numerical modelling of material processing – in honour of Professor Maciej Pietrzyk,
Room Aspen, page 20

Genetic algorithms in materials design and processing, *Room Zakopane, page 21*

20:00 Conference dinner, *Halka Restaurant*

Wednesday, 18th January

9:00–10:20 Plenary lectures, *Room Aspen, page 11*

10:20–10:40 Coffee break

10:40–12:40 Lectures:

Modelling of processes and applications of artificial intelligence, *Room Aspen, page 22*

Modelling of processes and applications of artificial intelligence, *Room Zakopane, page 23*

12:40–13:40 Lunch, *Halka Restaurant*

Plenary speakers

Francisco Chinesta, Ecole Centrale de Nantes, France

Francisco Chinesta is currently Professor of computational physics at the Ecole Centrale de Nantes (France), researcher at the High Performance Computing Institute. He was AIRBUS Group chair professor and he is at present ESI Group chair professor. He is fellow of the “Institut Universitaire de France”, Fellow of the Spanish Royal Academy of Engineering. He received many scientific awards in four different fields (bio-engineering, material forming processes, rheology and computational mechanics). He is author of 230 papers in peer-reviewed international journals. He is president of the French association of computational mechanics (CSMA) and director of the CNRS research group (GdR) on model order reduction techniques for engineering sciences. He is editor and associate editor of many journals.

Stefanie Reese, RWTH Aachen University, Germany

Professor Stefanie Reese is the head of the Institute if the Applied Mechanics at the Aachen University. The institute concentrates on the modelling of complex materials as well as on the efficient numerical simulation of practically relevant problems. Another research field are innovative numerical methods, e.g. in the areas of finite element technology, model reduction and phase field simulation. The focus of the experimental branch of research lies on the multiaxial mechanical behaviour of soft materials (e.g. biomaterials) but also metals. The institute does research on composite materials and structures, medical technology and biomechanics, innovative applications of mechanics in civil engineering, production technology.

Christof Sommitsch, Graz University of Technology, Austria

Professor Christof Sommitsch is head of the Institute of Materials Science, Joining and Forming at Graz University of Technology in Austria. The Institute is an international centre for developing, modelling and joining socially relevant, future-oriented, high-performance structural materials. The co-author of the lecture, Professor Bernhard Sonderegger is deputy head of the Institute of Materials Science, Joining and Forming and leader of the Modelling and Simulation group. Surya Deo Yadav is former PhD student and Bernhard Krenmayr is PhD student at the Institute.

Ryszard Buczkowski, Maritime University of Szczecin, Poland

Professor Ryszard Buczkowski's scientific research is focus on finite element modelling of contact problems with non-linear properties of the interface and statistical modelling of rough surfaces. He was an associate professor at Faculty of Marine Technology of the Technical University of Szczecin, head of the Division of Applied Mechanics and simultaneously chair of the Department of Mechanics and Transport Machines at the same faculty. Now Professor Ryszard Buczkowski is an associate professor at Maritime University of Szczecin and head of the Division of Computer Methods at Faculty of Economics and Transport Engineering.

Axel Rimnac, Primetals Technologies Austria GmbH

Axel Rimnac works in Primetals company. Primetals Technologies is a globally operating enterprise that offers state-of-the-art technologies, automation systems, plants, products and services for the iron, steel and nonferrous industrial sectors. Its solutions range from ironmaking, steelmaking, continuous casting, hot and cold rolling as well as non-ferrous rolling and processing covering conventional routes or mini mill concepts as well as newly developed green technologies such as the Arvedi ESP endless strip production process. Its competencies cover integrated plants and solutions, electrics and automation as well as process and technology consulting and life cycle services. Axel Rimnac is group leader of the metallurgy group for ESP (endless strip production) and program manager of through-process know-how metallurgical modeling program which covers main activities in metallurgical modeling ranging from casting, hot and cold-rolling as well as annealing and galvanizing.

Plenary lectures

Room Aspen

Monday

Chairman: Tadeusz Burczyński

- 9:00 Computational vademecums, APPs and data-based simulations at the 4th industrial revolution

*Francisco Chinesta, Emmanuelle Abisset-Chavanne,
Jose V. Aguado, Domenico Borzacchiello, Elena Lopez,
Jean-Louis Duval*



- 9:40 Multiscale modelling – advantages and challenges in the context of manufacturing processes

*Stefanie Reese, Julian Kochmann, Yalin Kiliclar,
Annika Radermacher, Stephan Wulfinghoff*



Tuesday

Chairman: Zbigniew Gronostajski

- 14:00 Modelling of the microstructural evolution during creep of high temperature steels

*Christof Sommitsch, Bernhard Sonderegger,
Surya Deo Yadav, Bernhard Krenmayr*



Wednesday

Chairman: Waclaw Kuś

- 9:00 Elasto-plastic contact problem for rough surfaces

Ryszard Buczkowski, Arkadiusz Rzeczycki



- 9:40 Microstructure model aided industrial implementation of advanced steel grades

*Axel Rimnac, Simon Grosseiber, Sergey Bragin,
Bernd Linzer, Christoph Krüger*



QR codes lead to pdf files containing extended abstracts. Applications capable to read QR codes can be found in Google Play (for Android) or Apple App Store (for IOS).

Material testing

Monday morning – Room Aspen

Chairman: Markus Bambach

- 10:40 Experimental investigations on the transformation-induced plasticity in a high tensile steel under varying thermo-mechanical loading

*Bernd-Arno Behrens, Anas Bouguecha,
Christian Bonk, Alexander Chugreev*



- 11:00 Analysis of bainite onset during cooling following prior deformation at different temperatures

*Aarne Pohjonen, Antti Kaijalainen, Mahesh Somani,
Jari Larkiola*



- 11:20 External force field during diffusion-sedimentation in condensed matter

*Bartłomiej Wierzba, Wojciech Jerzy Nowak,
Patrycja Wierzba, Jan Sieniawski*



- 11:40 Oxidation kinetic of IN 792 during early stage of high temperature exposure

*Wojciech Jerzy Nowak, Patrycja Wierzba,
Bartłomiej Wierzba, Jan Sieniawski*



- 12:00 Analysis of the compression testing of functionally graded microalloyed steel

*Marcin Kwiecień, Szymon Bajda, Janusz Majta,
Łukasz Lisiecki*



- 12:20 Study of the effects of strain path changes on mechanical response of microalloyed austenite using three point bending

Paulina Lisiecka-Graca, Krzysztof Muszka, Janusz Majta



Complex materials

Monday morning – Room Zakopane

Chairman: Jose Cesar De Sa

- 10:40 Finite element modelling of titanium aluminides
*Irina Sizova, Alexander Sviridov, Martin Günther,
Markus Bambach*



- 11:00 Modelling the effect of through process thermo-mechanical processing on the microstructure and properties of ZERON® 100 Super Duplex stainless steel
Jamie Pennington, Bradley P. Wynne, Glenn Byrne



- 11:20 3D modelling of micro hot embossing process with amorphous thermoplastic polymers
*Gang Cheng, Thierry Barrière,
Jean-Claude Gelin, Mohamed Sahli*



- 11:40 *hp*-adaptive multiscale FEM in modelling of heterogeneous viscoelastic materials
Marek Klimczak, Witold Cecot



- 12:00 Finite element modelling of supertransus Ti-6Al-4V extrusions
*James D. Pollard, Andrew Watford,
Martin Jackson, Bradley P. Wynne*



- 12:20 Mathematical model of austenitization process in ductile iron
*Izabela Olejarczyk-Woźeńska, Barbara Mrzygłód,
Henryk Adrian, Miroslaw Głowacki*



Multiscale modelling

Monday afternoon I – Room Aspen

Chairman: Jerzy Rojek

13:40	Finite-element implementation of crystal plasticity with twinning <i>Katarzyna Kowalczyk-Gajewska, Karol Frydrych</i>	
14:00	Numerical investigation of the laser welding of air conditioner components <i>Janusz Pikula, Marek Stanisław Węglowski, Jerzy Dworak, Grzegorz Ziobro, Adam Szafron</i>	
14:20	Numerical modelling of nanoindentation test of deposited layers <i>Konrad Perzyński, Grzegorz Cios, Grzegorz Szwacha, Dawid Zych, Piotr Bała, Łukasz Madej</i>	
14:40	Crystal plasticity material model development for multiscale numerical simulation of the incremental forming process <i>Joanna Szyndler, Laurent Delannay, Wojciech Wajda, Łukasz Madej</i>	
15:00	Dynamical and kinematical computations of intensities of electron beams reflected from growing surfaces <i>Zbigniew Mitura</i>	
15:20	CA/MC based generators of 3D microstructures of porous metallic materials <i>Adam Legwand, Konrad Perzyński, Łukasz Madej</i>	

Advanced Mathematical Modelling

Monday afternoon I – Room Zakopane

Chairman: Bradley Wynne

- 13:40 Towards intelligent materials testing with reduced experimental effort for hot forming
Markus Bambach, Muhammad Imran, Johannes Buhl, Sebastian Härtel, Birgit Awiszus



- 14:00 Supercritical debinding of component made by metal injection moulding
Alexandre Royer, Thierry Barrière, Jean-Claude Gelin



- 14:20 The method of Riemann in pressure-dependent plasticity under plane strain conditions
Sergei Alexandrov



- 14:40 On the specifics of modelling of rotary forging processes
Bhaskaran Krishnamurthy, Olga Bylya, Lisa Muir, Alastair Conway, Paul Blackwell



- 15:00 The MLPG in gradient theory for size-dependent magnetoelectroelasticity
Jan Sladek, Vladimir Sladek, Slavomír Hrček



Computing

Monday afternoon II – Room Aspen

Chairman: Witold Cecot

- 16:00 Open source JAVA implementation of the parallel multi-thread alternating direction isogeometric L2 projections solver for material science simulations

*Grzegorz Gurgul, Maciej Woźniak, Marcin Łoś,
Danuta Szeliga, Maciej Paszyński*



- 16:20 Graph grammar for simultaneous construction of three dimensional tetrahedral finite element mesh and element partition trees generating orderings for the multi-frontal solver algorithm

Anna Paszyńska



- 16:40 Finite element core calculations on GPUs

*Krzysztof Banaś, Jan Bielański,
Kazimierz Chłon, Filip Krużel*



- 17:00 GPU-bitonic sorter algorithm with SM application

Grzegorz Korpala



- 17:20 Study on parallelization of cellular automata static recrystallization model based on MPI standard

Mateusz Sitko, Łukasz Madej



- 17:40 A computational fluid dynamics analysis of transport enforced by Marangoni effect during laser welding

Aleksander Siwek



Phase transformations

Monday afternoon II – Room Zakopane

Chairman: Anne Marie Habraken

- | | | |
|-------|---|---|
| 16:00 | Modelling phase transformations in nuclear forgings using experimentally establish values of C_p_{eff}
<i>Michael P. Howson, Bradley P. Wynne,
Jesus Talamantes-Silva</i> |  |
| 16:20 | Modelling the effect of phase transformations on cooling rate during quenching in nuclear forgings using effective heat capacity
<i>Michael P. Howson, Bradley P. Wynne,
Peter S. Davies, Jesus Talamantes-Silva</i> |  |
| 16:40 | Influence of the laboratory measurements errors on the phase transformation model identification
<i>Daniel Bachniak, Łukasz Rauch,
Danuta Szeliga, Maciej Pietrzyk</i> |  |
| 17:00 | On the applicability of JMAK-type model in predicting IN718 microstructural evolution
<i>Nicola Stefani, Olga Bylya,
Aleksey Reshetov, Paul Blackwell</i> |  |
| 17:20 | Modelling of bainitic transformation during cooling of rails
<i>Monika Pernach, Roman Kuziak,
Włodysław Zalecki, Tomasz Zygmunt,
Maciej Pietrzyk</i> |  |
| 17:40 | Sensitivity analysis, identification and extending predictive capabilities of the phase transformation model based on the control theory
<i>Ivan Milenin, Krzysztof Bzowski,
Łukasz Rauch, Maciej Pietrzyk</i> |  |

Numerical modelling of material processing – in honour of professor Maciej Pietrzyk

Tuesday afternoon I – Room Aspen

Chairman: Jan Kusiak

- 14:40 Models of various complexity for description of mechanisms occurring during bainitic transformation in steels

*Krzysztof Bzowski, Roman Kuziak, Zofia Kania,
Łukasz Rauch, Maciej Pietrzyk*



- 15:00 A phase-field approach in material failure modelling
Jose M.A. Cesar de Sa, Erfan Azinpour



- 15:20 Thermal history modelling to understand microstructures observed in repair technology of Ti-6Al-4V
*Hoang Tran, Tchuindjang Tchoufang,
Hakan Paydas, Ruben Jardin, Raoul Carrus,
Jacqueline Lecomte Beckers, Anne Habraken*



- 15:40 Modelling of sintering at atomistic, microscopic and macroscopic scales
*Jerzy Rojek, Szymon Nosewicz, Marcin Maździarz,
Piotr Kowalczyk, Krzysztof Wawryk*



- 16:00 The method of searching for the new, two-dimensional graphene-like materials with predefined isotropic mechanical properties
Adam Mrozek, Wacław Kuś, Tadeusz Burczyński



- 16:20 Magnesium alloy ZE20 extrusion model development for the simulation and prediction of industrial forming processes
John E. Plumeri, Wojciech Z. Misiołek



Genetic algorithms in materials design and processing

Tuesday afternoon I – Room Zakopane

Chairman: Nirupam Chakraborti

- 14:40 Optimization of vanadium micro-alloyed steel composition for use in cold environments using evolutionary data-driven modelling

*Bhupinder Singh Saini, Debalay Chakrabarti,
Nirupam Chakraborti*



- 15:00 Performance assessment of Indian paper industries supply chain through DEA and soft computing technique: a case study

Sunil Kumar Jauhar, Millie Pant



- 15:20 Differential evolution approach for optimization of selected biochemical processes

*Ashish M. Gujarathi, Badria Al-Siyabi,
Nallusamy SivaKumar, Manjusha M. Mathew*



- 15:40 Usage of evolutionary methods in Štore Steel Ltd. steel plant
Miha Kovačič



- 16:00 Modelling of coke formation in industrial steam reformer and its multiobjective optimization

Amrish Kumar, Manojkumar Ramteke



- 16:20 On data-driven modelling of blast furnace
Nirupam Chakraborti, Bashista Kumar Mahanta,



Numerical modelling of material processing – in honour of professor Maciej Pietrzyk

Tuesday afternoon II – Room Aspen

Chairman: Jan Kusiak

- 17:00 Single block based 3D simulation of Linear Friction Welding of titanium alloys

*Dario Baffari, Gianluca Buffa,
Livan Fratini, Fabrizio Micari*



- 17:20 Analysis of martensitic steel bracket loads
*Slawomir Polak, Zbigniew Gronostajski,
Jakub Krawczyk, Wladyslaw Chorzeja*



- 17:40 State of the art in integrated modelling of coiling and uncoiling process using the reversing hot rolling as an example
*Alexander Nam, Andriy Milenin, Lukasz Rauch,
Maciej Pietrzyk, Rudolf Kawalla*



- 18:00 Numerical model of thin metal film heating using the boundary element method
Ewa Majchrzak, Bohdan Mochnacki



- 18:20 Artificial intelligence in computational mechanics: towards manifold learning approach
Piotr Breitkopf



- 15:40 Role of optimization and inverse analysis in modelling and design of metals processsing
Jan Kusiak



Genetic algorithms in materials design and processing

Tuesday afternoon II – Room Zakopane

Chairman: Nirupam Chakraborti

- 17:00 Optimization of machining parameters in turning of MMCs using GA with PCA coupled GRA

*Umesh Khandey, Sudarsan Ghosh,
Krishnaswamy Hariharan*



- 17:20 Evolutionary intelligence in design of novel high temperature $x\text{Bi}(\text{Me})\text{O}_3-(1-x)\text{PbTiO}_3$ family piezoelectric materials

*Kakali Jana Mandal, P. P Chattopadhyay,
Subhas Ganguly*



- 17:40 Evolutionary approach to materials design and engineering:
A short review of recent advances

Wojciech Paszkowicz



- 18:00 Evaluation of optimization strategies dedicated to multistage processes

*Piotr Jarosz, Jan Kusiak, Stanislaw Malecki,
Pawel Morkisz, Piotr Oprocha,
Wojciech Pietrucha, Lukasz Sztangret*



Modelling of processes and applications of artificial intelligence

Wednesday morning – Room Aspen

Chairman: Lukasz Rauch

10:40	Extrusion of the SPR Micro-Rivets with complex micro-die <i>Wojciech Presz, Robert Cacko</i>	
11:00	Micro-blanking with mutual calibration <i>Wojciech Presz, Robert Cacko</i>	
11:20	The simulation and measurement of temperature of steel wires in high speed drawing process <i>Maciej Suliga, Piotr Szota, Sebastian Mróz</i>	
11:40	Text mining as a tool to develop semantic knowledge bases in the field of metallurgy <i>Krzysztof Regulski</i>	
12:00	Possibilities of SWRL application to computer system supporting cooperation in a supply chain <i>Krzysztof Regulski, Gabriel Rojek, Grzegorz Dobrowolski</i>	
12:20	Numerical simulation of microstructure evolution involving recrystallization phenomena during multistep hot strip rolling schedules <i>Grzegorz Smyk, Danuta Szeliga</i>	

Modelling of processes and applications of artificial intelligence

Wednesday morning – Room Zakopane

Chairman: Danuta Szeliga

10:40	FE and physical modelling of plastic flow the two-layer Mg/Al materials <i>Sebastian Mróz, Piotr Szota, Andrzej Stefanik</i>	
11:00	FEM-aided roll pass design of ribbed sole-plates rolling process <i>Sebastian Mróz, Piotr Szota, Tomasz Zygmunt</i>	
11:20	Study on spring-back effect <i>Jakub Józef Krawczyk, Zbigniew Jerzy Gronostajski</i>	
11:40	The problems of numerical modeling of sheet metal stamping processes with high-strength materials <i>Monika Hyrcza-Michalska</i>	
12:00	The conversion in the production of metallurgical assisted decision making system <i>Dorota Wilk-Kołodziejczyk, Stanisława Kluska-Nawarecka, Edward Nawarecki, Krzysztof Jaśkowiec</i>	
12:20	Semi-dynamic domain oriented WEB crawling and information extraction <i>Andrzej Opaliński, Miroslaw Głowacki</i>	

List of Participants

Alexandrov Sergei

Institute for Problems in Mechanics
101-1 Prospect Vernadskogo, 119526 Moscow, Russia
sergei_alexandrov@spartak.ru

Bachniak Daniel

AGH University of Science and Technology
al. Mickiewicza 30, 30-059 Kraków, Poland
bachniak@agh.edu.pl

Bambach Markus

Brandenburg University of Technology Cottbus-Senftenberg
Konrad-Wachsmann-Allee 17, D-03047 Cottbus, Germany
bambach@b-tu.de

Banaś Krzysztof

AGH University of Science and Technology
al. Mickiewicza 30, 30-059 Kraków, Poland
pobanas@cyf-kr.edu.pl

Bartman Jacek

Pratt&Whitney Rzeszów,
ul. Hetmańska 120, 35-078 Rzeszów, Poland
Jacek.Bartman@pwrze.utc.com

Breitkopf Piotr

Université de Technologie de Compiègne
rue Roger Coutolenc, 60200 Compiègne, France
piotr.breitkopf@utc.fr

Buczkowski Ryszard

Maritime University of Szczecin
ul. H. Pobożnego 11, 70-507 Szczecin, Poland
rbuczkowski@ps.pl

Burczyński Tadeusz

Institute of Fundamental Technological Research, Polish Academy of Sciences
ul. Pawiańskiego 5B, 02-106 Warszawa, Poland
tburczynski@ippt.pan.pl

Bzowski Krzysztof

AGH University of Science and Technology
al. Mickiewicza 30, 30-059 Kraków, Poland
kbzowski@agh.edu.pl

Cacko Robert

Warsaw University of Technology
ul. Narbutta 85, 02-524 Warszawa, Poland
r.cacko@wip.pw.edu.pl

Cecot Witold

Cracow University of Technology
ul. Warszawska 24, 31-155 Kraków, Poland
plcecot@cyf-kr.edu.pl

Cesar de Sa Jose

University of Porto
Praça de Gomes Teixeira, 4099-002 Porto, Portugal
cesarsa@fe.up.pt

Chakraborti Nirupam

Indian Institute of Technology
Kharagpur, 721 302, India
nchakrab@gmail.com

Chinesta Francisco

Ecole Centrale of Nantes
1 rue de la Noe, F-44300 Nantes, France
Francisco.Chinesta@ec-nantes.fr

Chugreev Alexander

Leibniz Universität Hannover
An der Universitaet 2, D-30823 Garbsen, Germany
chugreev@ifum.uni-hannover.de

Gronostajski Zbigniew

Wrocław University of Science and Technology
ul. Wybrzeże Wyspiańskiego 27, 50-370 Wrocław, Poland
zbigniew.gronostajski@pwr.edu.pl

Gujarathi Ashish M.

Sultan Qaboos University
Al Khoudh, Muscat 123, Oman
ashishg@squ.edu.om

Gurgul Grzegorz

AGH University of Science and Technology
al. Mickiewicza 30, 30-059 Kraków, Poland
grzegorz.gurgul@gmail.com

Habraken Anne Marie

University of Liege
Allée de la Découverte, 1 B52/3, B 4000 Liège, Belgium
Anne.Habraken@ulg.ac.be

Hajduk Krzysztof

Pratt&Whitney Rzeszów,
ul. Hetmańska 120, 35-078 Rzeszów, Poland
Krzysztof.Hajduk@pwrze.utc.com

Howson Michael P.

The University of Sheffield
Mappin St., Sheffield S1 3JD, United Kingdom
mhowson1@sheffield.ac.uk

Hrcek Slavomir

University of Zilina
Univerzitná 8215/1, 01026 Zilina, Slovakia
slavomir.hrcek@fstroj.uniza.sk

Hyrcza-Michalska Monika

Silesian University of Technology
ul. Krasińskiego 8, 40-019 Katowice, Poland
monika.hyrcza-michalska@polsl.pl

Khandey Umesh

Indian Institute of Technology Delhi
Hauz Khas, New Delhi 110016, India
umesh.khandey@gmail.com

Klimczak Marek

Cracow University of Technology
ul. Warszawska 24, 31-155 Kraków, Poland
mklimczak@L5.pk.edu.pl

Kluska-Nawarecka Stanisława

AGH University of Science and Technology
al. Mickiewicza 30, 30-059 Kraków, Poland
stanislawa.nawarecka@iod.krakow.pl

Kopp Reiner

Institute of Metal Forming
Intzestr. 10, D-52056 Aachen, Germany
kopp@ibf.rwth-aachen.de

Korhonen Antti Samuel

Aalto University
P.O. Box 16200, 00076 Aalto, Finland
antti.korhonen@aalto.fi

Korpala Grzegorz

TU Bergakademie Freiberg
Akademiestraße 6, D-09599 Freiberg, Germany
Grzegorz.Korpala@imf.tu-freiberg.de

Kovačič Miha

Štore Steel Ltd.
Železarska cesta 3, 3220 Štore, Slovenia
miha.kovacic@store-steel.si

Kowalczyk-Gajewska Katarzyna

Institute of Fundamental Technological Research, Polish Academy of Sciences
ul. Pawińskiego 5B, 02-106 Warszawa, Poland
kkowalcz@ippt.pan.pl

Koziel Grzegorz

Celsa Huta Ostrowiec
ul. Jana Samsonowicza 2, 27-400 Ostrowiec Świętokrzyski, Poland
gkoziel@celsaho.com

Krawczyk Jakub

Wrocław University of Science and Technology
ul. Wybrzeże Wyspiańskiego 27, 50-370 Wrocław, Poland
slawomir.polak@pwr.edu.pl

Krishnamurthy Bhaskaran

University of Strathclyde
85 Inchinnan Drive, Inchinnan – PA49LJ, United Kingdom
bhaskaran.krishnamurthy@strath.ac.uk

Kusiak Jan

AGH University of Science and Technology
al. Mickiewicza 30, 30-059 Kraków, Poland
kusiak@agh.edu.pl

Kusiak Halina

AGH University of Science and Technology
al. Mickiewicza 30, 30-059 Kraków, Poland

Kuś Waclaw

Silesian University of Technology
ul. Akademicka 2A, 44-100 Gliwice, Poland
waclaw.kus@polsl.pl

Kwiecień Marcin

AGH University of Science and Technology
al. Mickiewicza 30, 30-059 Kraków, Poland
mkwiecie@agh.edu.pl

Larkiola Jari

University of Oulu
Pentti Kaiteran katu 1, 90014 Oulu, Finland
Jari.Larkiola@oulu.fi

Legwand Adam

AGH University of Science and Technology
al. Mickiewicza 30, 30-059 Kraków, Poland
alegwand@agh.edu.pl

Lisiecka-Graca Paulina

AGH University of Science and Technology
al. Mickiewicza 30, 30-059 Kraków, Poland
graca@agh.edu.pl

Majchrzak Ewa

Silesian University of Technology
ul. Konarskiego 18a, 44-100 Gliwice, Poland
ewa.majchrzak@polsl.pl

Martynowski Robert

Celsa Huta Ostrowiec
ul. Jana Samsonowicza 2, 27-400 Ostrowiec Świętokrzyski, Poland
rmartynowski@celsaho.com

Milenin Ivan

AGH University of Science and Technology
al. Mickiewicza 30, 30-059 Kraków, Poland
imilentin@agh.edu.pl

Misiolek Wojciech

Lehigh University
Bethlehem, PA 18015, USA
wzm2@lehigh.edu

Mitura Zbigniew

AGH University of Science and Technology
al. Mickiewicza 30, 30-059 Kraków, Poland
mitura@metal.agh.edu.pl

Mochnacki Bohdan

University of Occupational Safety Management
ul. Bankowa 8, 40-007 Katowice, Poland
bmochnacki@wszop.edu.pl

Mróz Sebastian

Częstochowa University of Technology
al. Armii Krajowej 19, 42-200 Częstochowa, Poland
mroz@wip.pcz.pl

Mrzygłód Barbara

AGH University of Science and Technology
al. Mickiewicza 30, 30-059 Kraków, Poland
mrzyglod@agh.edu.pl

Nam Aleksander

TU Bergakademie Freiberg
Bernhard-von-Cotta Str. 4, D-09596 Freiberg, Germany
Alexander.Nam@imf.tu-freiberg.de

Nicola Stefani

University of Strathclyde
75 Montrose Street, Glasgow, G1 1XJ, United Kingdom
nicola.stefani@strath.ac.uk

Nowak Wojciech

Rzeszow University of Technology
al. Powstańców Warszawy 12, 35-959, Rzeszów, Poland
w.nowak@prz.edu.pl

Olejarczyk-Woźeńska Izabela

AGH University of Science and Technology
al. Mickiewicza 30, 30-059 Kraków, Poland
ioletarc@agh.edu.pl

Opaliński Andrzej

AGH University of Science and Technology
al. Mickiewicza 30, 30-059 Kraków, Poland
andrzej.opalinski@agh.edu.pl

Otrebski Andrzej

Polski Rejestr Statków S.A.
al. Gen. Józefa Hallera 126, 80-416 Gdańsk, Poland
andrzej.otrebski@prs.pl

Pant Millie

Indian Institute of Technology Roorkee
Roorkee-Haridwar Highway, Roorkee 247 667, India
millidma@gmail.com

Paszkowicz Wojciech

Institute of Physics, Polish Academy of Science
al. Lotników 32/46, 02-668 Warszawa, Poland
paszk@ifpan.edu.pl

Paszyńska Anna

Jagiellonian University
ul. Prof. Stanisława Łojasiewicza 11, 30-348 Kraków, Poland
anna.paszynska@uj.edu.pl

Paszyński Maciej

AGH University of Science and Technology
al. Mickiewicza 30, 30-059 Kraków, Poland
paszynsk@agh.edu.pl

Pennington Jamie

The University of Sheffield
Mappin St., Sheffield, S1 3JD, United Kingdom
jajpennington1@sheffield.ac.uk

Pernach Monika

AGH University of Science and Technology
al. Mickiewicza 30, 30-059 Kraków, Poland
pernach@agh.edu.pl

Perzyński Konrad

AGH University of Science and Technology
al. Mickiewicza 30, 30-059 Kraków, Poland
kperzyns@agh.edu.pl

Pidvysots'kyy Valeriy

Institute for Ferrous Metallurgy
ul. K. Miarki 12-14, 44-100 Gliwice, Poland
vpidvysotskyy@imz.pl

Pietrzyk Maciej

AGH University of Science and Technology
al. Mickiewicza 30, 30-059 Kraków, Poland
mpietrz@agh.edu.pl

Pietrzyk Alina

AGH University of Science and Technology
al. Mickiewicza 30, 30-059 Kraków, Poland

Pikula Janusz

Institute of Welding in Gliwice
ul. Błogosławionego Czesława 16-18, 44-100 Gliwice, Poland
janusz.pikula@is.gliwice.pl

Plumeri John E.

Lehigh University
Bethlehem, PA 18015, USA
jep309@lehigh.edu

Pohjonen Aarne

University of Oulu
Pentti Kaiteran katu 1, 90014 Oulu, Finland
Aarne.Pohjonen@oulu.fi

Presz Wojciech

Warsaw University of Technology
ul. Narbutta 85, 02-524 Warszawa, Poland
w.presz@wip.pw.edu.pl

Raga Krzysztof

Pratt&Whitney Rzeszów,
ul. Hetmańska 120, 35-078 Rzeszów, Poland
Krzysztof.Raga@pwrze.utc.com

Ramteke Manojkumar

Indian Institute of Technology Delhi
Hauz Khas, New Delhi 110016, India
ramtekemanoj@gmail.com

Rauch Łukasz

AGH University of Science and Technology
al. Mickiewicza 30, 30-059 Kraków, Poland
lrauch@agh.edu.pl

Reese Stefanie

RWTH Aachen University
Mies-van-der-Rohe-Str. 1, D-52074 Aachen, Germany
stefanie.reese@rwth-aachen.de

Regulski Krzysztof

AGH University of Science and Technology
al. Mickiewicza 30, 30-059 Kraków, Poland
regulski@agh.edu.pl

Rimnac Axel

Primetals Technologies GmbH
Turmstraße 44, 4031 Linz, Austria
Axel.Rimnac@primetals.com

Rojek Jerzy

Institute of Fundamental Technological Research, Polish Academy of Sciences
ul. Pawińskiego 5B, 02-106 Warszawa, Poland
jrojek@ippt.pan.pl

Rojek Gabriel

AGH University of Science and Technology
al. Mickiewicza 30, 30-059 Kraków, Poland
rojek@agh.edu.pl

Royer Alexandre

Femto-ST Institute, ENSMM
24 rue de l'épitaphe, 25030 Besançon cedex, France
alexandre.royer@femto-st.fr

Saini Bhupinder Singh

Indian Institute of Technology
Kharagpur, 721 302, India
bhupinder.saini2.71@gmail.com

Sczygiol Norbert

Częstochowa University of Technology
ul. J.H. Dąbrowskiego 69, 42-200 Częstochowa, Poland
sczygiol@isic.pcz.pl

Sitko Mateusz

AGH University of Science and Technology
al. Mickiewicza 30, 30-059 Kraków, Poland
msitko@agh.edu.pl

Siwek Aleksander

AGH University of Science and Technology
al. Mickiewicza 30, 30-059 Kraków, Poland
Aleksander.Siwek@agh.edu.pl

Sizova Irina

Brandenburg University of Technology Cottbus-Senftenberg
Konrad-Wachsmann-Allee 17, D-03046 Cottbus, Germany
sizova@b-tu.de

Skóra Mariusz

Gaweł Zakład Produkcji Śrub S.A.
Palikówka 198, 36-073 Strażów, Poland
Mariusz.Skora@gzps.pl

Sladek Jan

Slovak Academy of Sciences
Dúbravská cesta 9, 84503 Bratislava, Slovakia
jan.sladek@savba.sk

Smyk Anna

AGH University of Science and Technology
al. Mickiewicza 30, 30-059 Kraków, Poland
barana@agh.edu.pl

Smyk Grzegorz

AGH University of Science and Technology
al. Mickiewicza 30, 30-059 Kraków, Poland
gsmyk@agh.edu.pl

Sommitsch Christof

Graz University of Technology
Kopernikusgasse 24, A-8010 Graz, Austria
Christof.sommitsch@tugraz.at

Stachniak Ewa

Celsa Huta Ostrowiec
ul. Jana Samsonowicza 2, 27-400 Ostrowiec Świętokrzyski, Poland
estachniak@celsaho.com

Stępień Marcin

Gaweł Zakład Produkcji Śrub S.A.
Palikówka 198, 36-073 Strażów, Poland
Marcin.Stepien@gzps.pl

Subhas Ganguly

National Institute of Technology Raipur
GE Road, Raipur, 492 010, India
sganguly.met@nitrr.ac.in

Sviridov Alexander

Brandenburg University of Technology Cottbus-Senftenberg
Konrad-Wachsmann-Allee 17, D-03047 Cottbus, Germany
sviridov@b-tu.de

Szeliga Danuta

AGH University of Science and Technology
al. Mickiewicza 30, 30-059 Kraków, Poland
szeliga@agh.edu.pl

Szota Piotr

Częstochowa University of Technology
al. Armii Krajowej 19, 42-200 Częstochowa, Poland
pszota@wip.pcz.pl

Sztangret Łukasz

AGH University of Science and Technology
al. Mickiewicza 30, 30-059 Kraków, Poland
szt@agh.edu.pl

Szyndler Joanna

AGH University of Science and Technology
al. Mickiewicza 30, 30-059 Kraków, Poland
szyndler@agh.edu.pl

Telejko Tadeusz

AGH University of Science and Technology
al. Mickiewicza 30, 30-059 Kraków, Poland
telejko@agh.edu.pl

Wieczorek Tadeusz

Silesian University of Technology
ul. Krasińskiego 8, 40-019 Katowice, Poland
tadeusz.wieczorek@polsl.pl

Wierzba Bartłomiej

Rzeszow University of Technology
al. Powstańców Warszawy 12, 35-959, Rzeszów, Poland
bwierzba@prz.edu.pl

Wiewiórowska Sylwia

Częstochowa University of Technology
al. Armii Krajowej 19, 42-200 Częstochowa, Poland
wiewior@wip.pcz.pl

Wilk-Kołodziejczyk Dorota

AGH University of Science and Technology
al. Mickiewicza 30, 30-059 Kraków, Poland
dorota.wilk@iod.krakow.pl

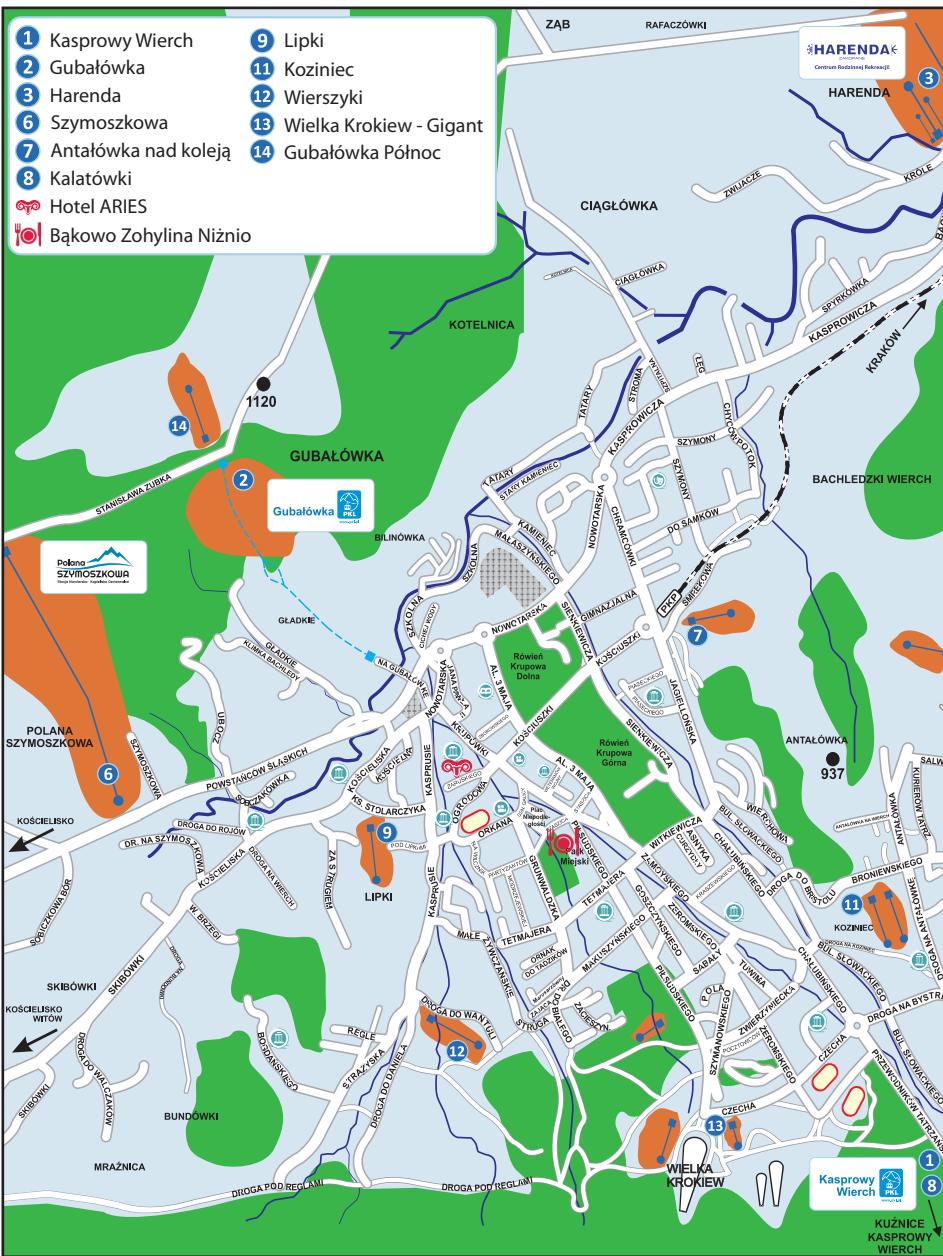
Wynne Bradley

The University of Sheffield
Mappin St., Sheffield, S1 3JD, United Kingdom
b.wynne@sheffield.ac.uk

Zygmunt Tomasz

ArcelorMittal Poland
al. Józefa Piłsudskiego 92, 41-308 Dąbrowa Górnica, Poland
Tomasz.Zygmunt@arcelormittal.com

Maps of Zakopane



Source: www.zakopane.pl/o-nas/materiały-do-pobrania

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