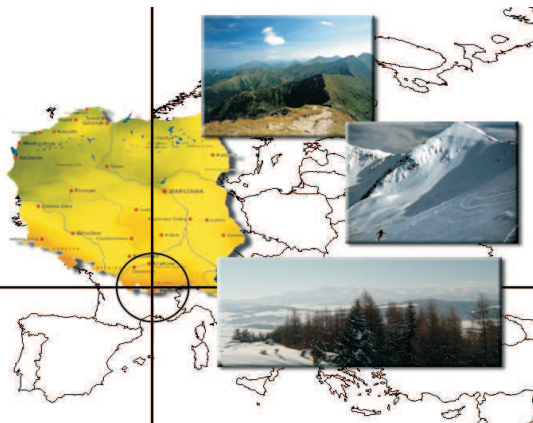


Location

Zakopane is situated in southern Poland, about 100 km to the south of Kraków, close to the border with Slovakia. It lies in a valley at the foot of the Tatras, the highest mountains in Poland (Mount Rysy 2499 m). Zakopane is located at 48°18" latitude and 19°57" longitude. The centre lies at about 840 m above sea level, but some parts are even higher up to 1000 m above sea level on the slopes of Gubałówka - a hill that surrounds it from the North.

Zakopane residents know that the natural beauty of the Tatras as well as their long and colourful tradition are the main attraction of their small town. Zakopane has its unique mountain climate with air, water and soil not affected by the modern industrial development and pollution. Huge part of the town is heated by gas and clean geothermal energy, which comes from hot water found 2 km underground. Gas, oil and hot geothermal water will soon completely replace the traditional coal heaters and the air over Zakopane will become crystal clear.

The appealing small mountain town of Zakopane has been a frequented resort area since the end of the 19th century, when a physician from Warsaw Tytus Chałubiński declared that the healthy Tatra Mountains air could cure tuberculosis, among the other ailments. Today it is one of Poland's most-visited tourist spots with some two million visitors a year, in a town of just 30.000 inhabitants. Due to a number of ski trails, Zakopane is also called "winter capital of Poland". World cup in ski jumping is organized here every year in January. As a result, the town itself has become fairly cosmopolitan. Nevertheless the old town has not quite vanished, and you will still find plenty of traditional mountain chalets with their gables and steeply sloping roofs. It is probably tourism that is keeping folk traditions and costumes alive here, but it means that you enjoy splendid sleigh rides and bonfire evenings where highlanders in white woollen trousers perform the dramatic "Zbójnicki" Robbers Dance.



Call for papers

Prospective Authors are invited to register and to submit, through the Internet, an abstract of about 500 words in English. Abstracts should outline the main features, results and conclusions of the work. The Selection Committee will review the abstracts and all Authors will be notified about the decision. Final manuscripts have to be prepared in English. The papers will be reviewed by the members of the International Scientific Committee and, if accepted, published as a special issue of the Journal Computer Methods in Materials Science, which will be printed before the conference.

Registration

The registration fee for delegates and authors is 1200 PLN (800 PLN for students) if paid before December 10, 2010 and 1400 PLN (900 PLN for students) if paid after that date.

The fee includes Conference Proceedings, reception, lunches, coffee breaks, banquet and social program.

Account owner:

Fundacja Zespołu Piosni i Tanca KRAKUS,

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with note: KomPlasTech 2011. *Participant's name*

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Important Dates

- ◆ Abstract submission June 30, 2010
- ◆ Notification of abstract acceptance July 31, 2010
- ◆ Submitting the full paper September 30, 2010
- ◆ Notification of paper acceptance December 1, 2010
- ◆ Deadline for early payment December 10, 2010

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Conference Site

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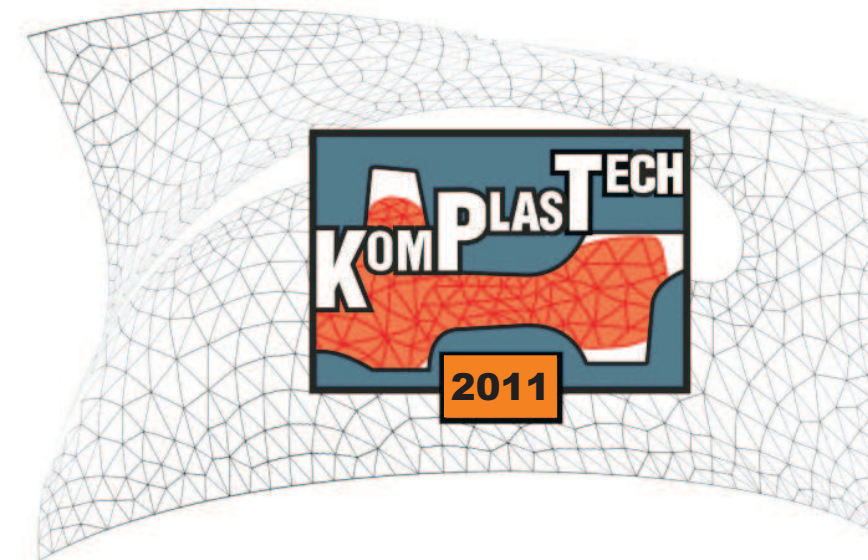


Thematic Conference

KOMPLASTECH 2011

Computer Methods in Materials Technology

January 16-19, 2011
Zakopane, Poland



Objectives

The first national conference in the series on Computer Methods in Metals Technology (KomPlasTech) was held in 1993 in Krakow, Poland. 17 conferences in this series have been organized since then. Since the beginning of the 21st century the intention of the organizers was to extend the scope to all materials and to make the conference international by inviting the scientists from all over the world. Thus, several papers dealing with non-metallic materials were submitted and the name of the Conference was changed to Computer Methods in Materials Technology. The first international KomPlasTech Conference was organized in Zakopane in 2007.

There is an increasing necessity to solve complex problems in numerical modelling of materials processing. Several new techniques dedicated to description of materials behaviour have been developed. Application of the multiscale analysis to joint modelling of phenomena occurring in different scales (macro, mezo, micro and nano) became effective. Thus, the objectives of the KomPlasTech conference are to get together scientists and researchers working in the fields of computer methods and materials science and to enable exchange of information between those two groups.

Conference Topics

- ◆ Application of new computational techniques to modelling and control
- ◆ Numerical simulations of casting, heat transfer, metal forming, heat treatment, phase transformations, diffusion, etc.
- ◆ Modelling of semi-solid forming, thixoforming
- ◆ Modelling of microstructure evolution and prediction of properties of products
- ◆ Rheological models, application of the inverse analysis to identification of models parameters
- ◆ Multiscale material models, based on cellular automata, molecular dynamic, Monte Carlo, etc.
- ◆ Boundary conditions in modelling of processes in materials engineering
- ◆ Computer aided design of tools and technology in materials processing, new energy-saving and environment-protecting technologies
- ◆ Applications of artificial intelligence and optimization techniques in materials science
- ◆ Databases and knowledge bases in materials engineering
- ◆ Digital materials and virtual processes

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Franciszek GROSMAN, Silesian University of Techn., Poland

Mini-Symposiums

The following Mini-symposia will be organized during the 18th KomPlasTech Conference:

Methods of modelling of polymer materials processing
Organizer: Krzysztof PIELICHOWSKI
Politechnika Krakowska, Kraków, Poland

Modelling of granular, non-crystalline and composite materials
Organizer: Jerzy ROJEK
IPPT PAN, Warszawa, Poland

Organizers



Department of Applied Computer Science and Modelling
Faculty of Metals Engineering and Industrial Computer Science
Akademia Górniczo-Hutnicza



Department 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 for Computer Technology in Metallurgy and Materials Science CEKOMAT



Polish Association for Computational Mechanics

Plenary Lectures

Numerical modelling of fracture
Jose CESAR de SA, University of Porto, Portugal

A combined effect of texture, grain shape and grain size on plastic anisotropy
Laurent DELANNAY, Université Catholique de Louvain, Belgium

Computer modelling and analysis of effective properties of composites
Piotr FEDELIŃSKI, Radosław GÓRSKI, Grzegorz DZIATKIEWICZ, Jacek PTASZNY, Silesian University of Technology., Poland

Fast simulation of hot sheet rolling for optimization and Control - industrial requirements and a simple approach
Felix HAGEMANN, Jan OREND, Gunnar T. LINKE, Thomas EVERTZ
Salzgitter Mannesmann Forschung GmbH, Germany

Modelling deformation and recrystallization in metals using digital microstructures and mean field methods
Roland E. LOGÉ, Heba RESK, Swarup BAG, Ke HUANG, Marc BERNACKI, CEMEF - MINES ParisTech, France