
Materials:

Metallic Alloys, Tool Materials, Superplastic Materials, Ceramics and Glasses, Composites, Amorphous Materials, Nanomaterials, Biomaterials, Multifunctional and Smart Materials, Engineering Polymers

Properties:

Ductility and Crack Resistance, Fatigue, Creep-resistance, Fracture Mechanics, Mechanical, Electrical, and Magnetic Properties, Corrosion and Erosion, Wear Resistance, Non-Destructive Testing, Reliability Assessment, Toxicity, Working Properties of Materials and Products

Methodology of Research:

Electron Microscopy, X-ray Phase Analysis, Metallography and Quantitative Metallography, Image Analysis, Computer Assistance in the Engineering Tasks and Scientific Research

Analysis and Modelling:

Numerical Techniques, Statistic Methods, Residual Life Analysis, Process Systems Design, Mould Flow Analysis, Rapid Prototyping, CAD/CAM, CAMS, CAQ, Engineering Design, Constructional Design, Technological Design, Materials Design, Applied Mechanics, Computational Material Science and Mechanics, Materials and Engineering Databases, Expert Systems, Artificial Intelligence Methods

Manufacturing and Processing:

Casting, Powder Metallurgy, Welding, Sintering, Heat Treatment, Thermo-Chemical Treatment, Thin & Thick Coatings, Surface Treatment, Machining, Plastic Forming, Quality Assessment, Automation Engineering Processes, Robotics and Mechatronics, Technological Devices and Equipment

Cleaner Production and Biotechnology:

Theoretical Fundamentals of Cleaner Production, Industrial Application of Cleaner Production, Biotechnology

Industrial Management and Organisation:

Production and Operations Management, Production Planning and Control, Manufacturing Technology Management, Quality Management, Environmental Management, Safety and Health Management, Project Management, Physical Distribution and Logistics Management, Supply Chain Management, Productivity and Performance Management

Education and Research Trends:

Development of New Curricula for BSc and MSc Studies in the field of Materials Science, Manufacturing and Mechanical Engineering, Challenges of the Widening Labour Market, Complementary Roles of Developed and Developing Nations in Promoting a Global Industrial and Economical Infrastructure and Requirements on Common International Research and Teaching Development in the field of Materials, Manufacturing and Mechanical Engineering, Computer Aided Teaching, E-learning

Only papers positively pre-reviewed by at least two reviewers are published in the Journal

Institute of Engineering Materials and Biomaterials of the Silesian University of Technology in the cooperation with the World Academy of Materials and Manufacturing Engineering

would like to invite to the **16th International Scientific Conference on Contemporary Achievements in Mechanics, Manufacturing and Materials Science**

CAM3S'10

on the occasion of **65 years of traditions of materials science and education in Silesia**

which will be organised in Gliwice on **22nd-24th November 2010**

During the Conference the unveiling a commemorative plaque of Late Prof. Jan Adamczyk, the leader of School of Physical Metallurgy and Electron Microscopy on the occasion of the 75th anniversary of his birthday is foreseen

The publication of the conference proceedings is foreseen.

The chosen papers worked out in English by individually invited delegates can be published after peer reviews worked by international experts in the Worldwide Journal of Achievements in Materials and Manufacturing Engineering.

ADDRESS OF THE CONFERENCE:

CAM³S'2010 Conference Secretariat
Institute of Engineering Materials and Biomaterials,
Silesian University of Technology
ul. Konarskiego 18 a (room 366)
44-100 Gliwice, Poland

On-line registration and detailed information

Home page: <http://www.cams.pl>
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