

The World Academy of Materials  
and Manufacturing Engineering  
and the Materials Science Committee  
of the Polish Academy of Sciences

would like to invite to the 18<sup>th</sup> International  
Scientific Conference on Achievements  
in Mechanical and Materials Engineering



**AMME'10**

which will be organised in Zakopane  
at the beautiful Polish Tatra mountains,

**13<sup>th</sup>-16<sup>th</sup> June 2010**

**GLIWICE • ZAKOPANE • WIELICZKA**

The Opening Ceremony  
of the Conference is foreseen  
in the underground rooms  
of the historic Salt Mine  
dated from 11<sup>th</sup> century  
in Wieliczka near Cracow



**Conference Venue**  
**Mercure Kasprowy Hotel**  
**Zakopane, Poland**

**ADDRESS OF THE CONFERENCE:**

AMME'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.amme.pl>  
E-mail: [amme.info@polsl.pl](mailto:amme.info@polsl.pl)

**DEADLINES**

**Abstract and Paper Early Bird Submission**  
**– 31<sup>st</sup> January 2010**

**PUBLICATION**

AMME'2010 conference delegates are invited to prepare abstracts which will be published in the Conference Programme and Proceedings and full papers which will be published after peer reviews worked by experts invited by the Conference Organisers and after the choice made by the Organisers in:

- Worldwide Journal of Achievements in Materials and Manufacturing Engineering by the International OCSCO World Press, Gliwice – Campinas – Portland – Madrid – Daejeon – Brisbane – Cairo
- Archives of Materials Science and Engineering by the International OCSCO World Press, Gliwice – Sao Paulo – Athens – Osaka – Doha – West Lafayette – Auckland – Szczecin – Singapore
- Archives of Computational Materials Science and Surface Engineering by the International OCSCO World Press, Gliwice – West Lafayette – Daejeon – Riga – Campinas – Singapore – Rijeka



**INNOVATIVE  
ECONOMY**  
NATIONAL COHESION STRATEGY



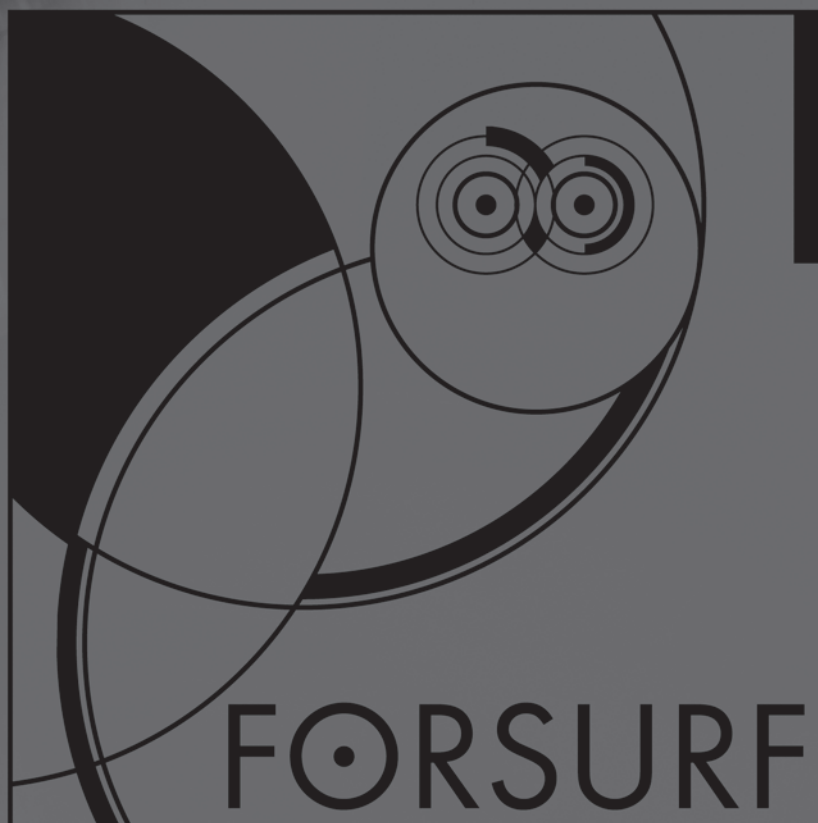
**EUROPEAN UNION**  
EUROPEAN REGIONAL  
DEVELOPMENT FUND



The project is co-funded by European Union from financial resources of European Regional Development Fund

**INSTITUTE OF ENGINEERING MATERIALS AND BIOMATERIALS  
SILESIAN UNIVERSITY OF TECHNOLOGY**

**Foresight of surface  
properties formation leading  
technologies of engineering  
materials and biomaterials**



**FORSURF**



**REGIONAL  
PROGRAMME**  
NATIONAL COHESION STRATEGY



**EUROPEAN UNION  
EUROPEAN REGIONAL  
DEVELOPMENT FUND**



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# **Institute of Engineering Materials and Biomaterials SILESIAN UNIVERSITY OF TECHNOLOGY**



## **Modernisation and equipping of the research and forming laboratories of the engineering materials in Gliwice**

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**Materials:**

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

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**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

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**Methodology of Research:**

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

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**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

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**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

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**Cleaner Production and Biotechnology:**

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

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**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

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**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

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