



**HUMAN CAPITAL**  
NATIONAL COHESION STRATEGY



**EUROPEAN UNION**  
EUROPEAN  
SOCIAL FUND



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


**Institute of Engineering Materials and Biomaterials**  
**Faculty of Mechanical Engineering**  
**SILESIAN UNIVERSITY OF TECHNOLOGY**

**PROJECT**



**infonano**

## **Priority courses**

-  **Nanotechnology and Technologies of Materials Processes**
-  **Applied Computer Science with Computational Materials Science**
-  **Materials Engineering** with 4 education profiles:
  - **Dental Engineering**
  - **Surface Engineering**
  - **Management Engineering**
  - **Processes Automation**



# Journal

of Achievements in Materials  
and Manufacturing Engineering

VOLUME 42  
ISSUES 1-2  
September-October  
2010

## Scope

### 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



**INNOVATIVE  
ECONOMY**  
NATIONAL COHESION STRATEGY



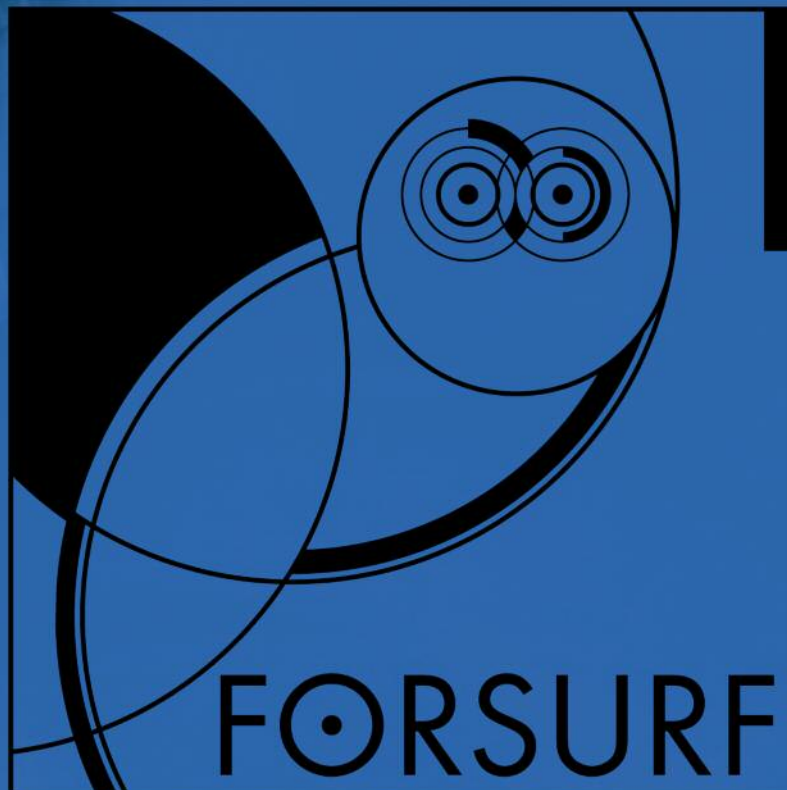
EUROPEAN UNION  
EUROPEAN REGIONAL  
DEVELOPMENT FUND



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**



**Contractors of the FORSURF Project would like to invite  
a wide group of experts to participate in the Delphi  
method researches concerning the Project scope**

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

would like to invite to the **16<sup>th</sup> 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 engineering in Silesia

which will be organised in Gliwice  
on **22<sup>nd</sup>-24<sup>th</sup> 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 75<sup>th</sup> anniversary of his  
birthday is foreseen

The publication of the conference  
proceedings is foreseen



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