



**HUMAN CAPITAL**  
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**

QUAPINFO Project



**Increasing attractiveness  
of education quality  
in the macro-field of study:  
Applied Computer Science  
and Computational  
Materials Science**



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

NANATRIM Project



**Improvement of education  
attractiveness  
in the macro-field of study:  
Nanotechnology  
and Materials Processes  
Technology**





**HUMAN CAPITAL**  
NATIONAL COHESION STRATEGY



**EUROPEAN UNION**  
EUROPEAN REGIONAL  
DEVELOPMENT FUND



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

IMOTECH Project



**Improvement  
of education  
attractiveness  
in the field of study:  
Materials  
Engineering**



**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**  
**SILESIA UNIVERSITY OF TECHNOLOGY**

**PROJECT**



**infonano**

**Priority courses**

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





**INFRASTRUCTURE  
AND ENVIRONMENT**  
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**

## **The Scientific-Didactic Laboratory of the Nanotechnology and Materials Technology in Gliwice**

PROJECT





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Volume 7 (13) 2012

Grzegorz Matula

**Gradientowe warstwy  
powierzchniowe  
z węglkostali narzędziowych  
formowane bezciśnieniowo  
i spiekane**

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**Podstawy metalurgii proszków  
i materiały spiekane**

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**Kompozyty z siarczkowymi nanocząstkami  
grafenopodobnymi**

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**Kształtowanie struktury i własności  
powłok hybrydowych na rewersyjnie  
skręcanych matrycach do wyciskania**

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Leszek A. Dobrzański  
Fabio Gustavo

**Implanty śródszpikowe  
w osteosyntezie kości długich**

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Leszek A. Dobrzański  
Marcin Adamiak  
Błażej Tomiczek

**Nanostrukturalne materiały  
kompozytowe o osnowie stopów Al  
wzmacniane cząstkami mineralnymi  
i faz międzymetalicznych**





**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 21<sup>st</sup> International  
Scientific Conference on Achievements  
in Mechanical and Materials Engineering**

**AMME'13**

**which is organised in Kraków  
— one of the oldest, most beautiful  
and magic cities in Poland,**

**23<sup>rd</sup>–26<sup>th</sup> June 2013**



**GLIWICE • KRAKÓW**



**Conference Venue**  
**Hilton Garden Inn Hotel\*\*\*\***  
**Kraków, Poland**

**ADDRESS OF THE CONFERENCE:**

AMME'2013 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 Submission**

**— 31<sup>st</sup> March 2013**

**Acceptance of Papers**

**— 30<sup>th</sup> April 2013**

**PUBLICATION**

AMME'2013 conference delegates are invited to prepare abstracts which will be published in the Conference Programme and Proceedings and papers which will be published after peer reviews worked out 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



# Thematic scope of papers

## **MATERIALS**

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

## **PROPERTIES**

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

## **METHODOLOGY OF RESEARCH, ANALYSIS AND MODELLING**

Electron Microscopy, X-ray Phase Analysis, Metallography, Quantitative Metallography, Image Analysis, Computer Assistance in the Engineering Tasks and Scientific Research, Numerical Techniques, Statistic Methods, Residual Life Analysis, Process Systems Design, Mould Flow Analysis, Rapid Prototyping, CAM, CAMS, CAQ, Engineering Design, Technological Design, Materials Design, Computational Material Science, Materials and Engineering Databases, Expert Systems, Artificial Intelligence Methods

## **MATERIALS 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, Mechatronics, Technological Devices and Equipment, Theoretical Fundamentals of Cleaner Production, Industrial Application of Cleaner Production Methods, 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 IN MATERIALS SCIENCE AND ENGINEERING**

Development of New Curricula for BSc, MSc and PhD Studies, 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, Computer Aided Teaching, E-learning

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