

APPLIED MATERIALS SCIENCE AND NANOTECHNOLOGY SYMPOSIUM

Chairman: Tamás I. TÖRÖK *professor*

B1: APPLIED MATERIALS SCIENCE AND NANOTECHNOLOGY

VENUE: Káldor Mihály Lecture Hall, Bld. B/1 ground floor, 8.
Chairman: Valéria MERTINGER *professor*
Secretary: Máté SEPSI *student*

Date: April 20, 2017

- 14.00 Simon Schwarz, Stefan Rung, Ralf Hellmann University of Applied Sciences Aschaffenburg, Germany
High Quality One-Dimensional Low Spatial Frequency Lipss on Sapphire Generated by Top-hat Beam Shaped Ultrashort-Pulsed Laser
- 14.15 Sabrina Koss, André Edelmann, Ralf Hellmann University of Applied Sciences Aschaffenburg, Germany
Efficient Selective Laser Melting of AlSi10Mg0.5
- 14.30 Lisa Riedel, Sabrina Koss, André Edelmann, Ralf Hellmann University of Applied Sciences Aschaffenburg, Germany
Design Rules to Prevent Thermal Distortion of Large Area Components Manufactured by Selective Laser Melting
- 14.45 Benjamin Schiller, André Edelmann, Ralf Hellmann University of Applied Sciences Aschaffenburg, Germany
Characterization of Surface Quality for Inconel 625 Components Manufactured by Selective Melting
- 15.00 Stefan Steinlechner Montanuniversität Leoben, Austria
Optimization of the Copper Anode Slime Treatment – Mineralogical Characterization and Hydrometallurgical Process Development for Separation of Selected Side-Elements
- 15.15 Stephan Steinacker, Jürgen Antrekowitsch Montanuniversität Leoben, Austria
The Role and Influence of Impurities on the Quality of Copper Cathodes
- 15.30 Tibor Kulcsár, Tamás Kekesi University of Miskolc, Hungary
Thermo-Mechanical Extraction of Aluminium from the Dross of Melting Al and AlMg Scrap
- 15.45 Break

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- 16.00 Andreas Cziegler, Peter Schumacher Montanuniversität Leoben, Austria
Influence of Soline Content on Grain Size in Binary Cu Alloys
- 16.15 Shaymaa Abbas Abdulazad, Ali I. Al-Mosawi, Tamás I. Török University of Miskolc, Hungary
Testing the Inhibition Potential of Feungreek Seed Powders on Steel Rebar Samples Immersed in Aqueous NaCl Solution
- 16.30 Cucu Ioan, Radu Sorin Mihai, Nan Marin Silviu, Nicola Aureliu, Vladu Bogdan University of Petrosani, Romania
Researches Regarding the Residual Strain Recorded During the Cold Bending Process of Metallic Support Elements
- 16.45 Máté Sepsí, Artur Talgotta, Erzsébet Nagy, Márton Benke, Valéria Mertinger University of Miskolc, Hungary
Martensites Formation During Thermomechanical Treatments of Tiwp Steels
- 17.00 Máté Czágány, Bauml Péter University of Miskolc, Hungary
Development and Investigation of Electroless Ni-P Coatings on Steel Substrates
- 17.15 Bronislav Kaney¹, Emese Kurovics², Alexandra Shimakova¹, László A. Gömze² Institute of Geology Komi SC UB RAS, Russia¹, University of Miskolc, Hungary²
Development Ceramic Composites Based on Al₂O₃, SiO₂ and IG-017 Additive
- 17.30 Emese Kurovics, László A. Gömze University of Miskolc, Hungary
Development of High-tech Ceramic Composites from Conventional Kaolinite Minerals and IG-017 Additives
- 17.45 Emese Kurovics, László A. Gömze University of Miskolc, Hungary
Influence of Sintering Atmosphere and IG-017 Bio-Originall Additives on Porosity of Ceramics Made from High Purity Al₂O₃ and SiO₂ Powders
- 18.00 Summary