

MTSM 2016

Conference venue:

Faculty of Electrical Engineering, Mechanical Engineering and Naval Architecture –
Amphitheater B401

Conference schedule

Thursday, 22nd September 2016

08.30 – 09.30 **Participant registration**

09.30 – 09.45 **Opening ceremony**

Session I

09.45 PRESENTATION OF RESEARCH PROJECT:

Optimisation and modelling of thermal processes of materials – HRZZ 5371, Project Leader:
PhD Božo Smoljan, Full Professor

10.00 **Massimo Rogante, Anatoliy Zavdoveev, Jan Pilch**: Residual stress determination by neutron diffraction in low-carbon steel wires with accumulated shear deformation

10.15 **Katica Šimunović, Ilija Svalina, Tomislav Šarić, Sara Havrlišan, Roberto Lujčić, Goran Šimunović**: Analysis of variance for aluminium alloy surface roughness data

10.30 **Kateryna Kamyshnykova, Juraj Lapin**: Induction melting and centrifugal casting of intermetallic TiAl alloy

10.45 **Amalija Horvatić Novak, Biserka Runje** Dimensional measurements with usage of computed tomography method

11.00 **Branimir Tadić, Mladen Perinić, Zoran Jurković**: Computer analysis of injection molding process

11.15 **Coffee break**

12:00 **Juraj Lapin**: Precision cast turbocharger wheels from TiAl-based alloy

12.15 **Michaela Štamborská, Juraj Lapin, Oto Bajana**: Effect of annealing in argon and hydrogen on tensile deformation behavior of ferritic-pearlitic steel

12.30 **Andrej Borić, Goran Cukor, Duško Pavletić**: The Model of Stress Distribution in the Cutting Tool During Turning Process Application SolidWorks

12.45 **Jaroslav Jerz, František Šimančík, Jozef Šebek, Jaroslav Kováčik, Ján Španielka**: Application of aluminium foam for heat exchangers on building facades and interior ceilings

13:00 **Ivana Ivanić, Stjepan Kožuh, Stanislav Kurajica, Borut Kosec, Ivan Anžel, Mirko Gojić**: XRD analysis of CuAlNi shape memory alloy before and after heat treatment

13:30 **Lunch**

15:15 **Excursion Hinterland Dalmatia with dinner**

22:15 **Return to Split**

Friday, 23th September 2016

Session II

- 09.00 **BRODOSPLIT PRESENTATION: Ivana Zore, Mladen Bratošević**
- 09.15 **Božo Smoljan, Dario Iljkić, Lovro Štic, Loreta Pomenić, Sunčana Smokvina Hanza:** Numerical modelling of case hardening of steel
- 09.30 **Ivan Peko, Ivan Špar, Andrej Bašić:** Rapid Prototyping of Mechanical Measurement Level Device
- 09.45 **Ante Čorić, Slaven Šitić, Ivan Madunić:** Manufacturing and testing of underwater remotely operated vehicle propulsion unit
- 10.00 **Jure Krolo, Branimir Lela, Rafaela Vuleta:** Preliminary study of severe plastic deformation tool for production of solid state recycled materials
- 10.15 **Antonio Mijić:** Production line for coating fuel cell membranes
- 10.30 **Coffee break**
- 11.15 **Nikola Banduka, Ivica Veža, Nikola Gjeldum:** Supply chain model based on management principles of key elements and Lean principles
- 11.30 **Nikša Čatipović, Dražen Živković, Zvonimir Dadić:** Effects of copper and heat treatment parameters on mechanical properties of austempered ductile iron
- 11.45 **Zvonimir Dadić, Dražen Živković, Nikša Čatipović:** Surface wear of steel X38CrMoV5-1 in conditions of die casting
- 12.00 **Luka Celent, Dražen Bajić, Sonja Jozić:** Reverse engineering process application in single item production
- 12.15 **Marko Mladineo, Djerdj Horvat, Ivica Veza:** Case Study of Croatian manufacturing industry: Industry 4.0 Providers or Users?
- 12.30 **Closing speech**
- 13.00 **Lunch**