

**MTSM 2018**  
**Conference venue:**  
**Faculty of Electrical Engineering, Mechanical Engineering and Naval Architecture –**  
**Amphitheater B401/B402**

**CONFERENCE SCHEDULE**

**Thursday, 27<sup>th</sup> September 2018**

**08.30 – 09.30 Participant registration**

**09.30 – 09.45 Welcome address**

**INTRODUCTORY PRESENTATIONS – B401**

- 09.45 SALONAVAR d.o.o. – **Marija Stupalo**, MBA  
“PRESENTATION”
- 10.05 LTH Metal Cast – **Kristijan Senkić**, dipl.ing.  
“PRESENTATION”
- 10.25 INCLUDE d.o.o. – **Ivan Mrvoš**  
“PRESENTATION”
- 10.45 NEIR d.o.o. – **Jure Karoglan**  
„PRESENTATION“

**11.05 Coffee break**

**SESSION I – B401**

**Chairmen: Nikša Čatipović, Zvonimir Dadić**

- 11.40 **Livio Giuliani**, Massimo Rogante, Peter Wadhams, Barbara Zavan:  
RESEARCH ON ELECTROMAGNETIC FIELD (EMF) AND RELATED BIOLOGICAL HAZARDS: STATE-  
OF-THE-ART
- 12.00 **Juraj Lapin**, Alena Klimová:  
DESIGN, PROCESSING AND PROPERTIES OF CAST TiAl + Ti<sub>3</sub>Al MATRIX IN-SITU COMPOSITES  
REINFORCED WITH MAX PHASE PARTICLES
- 12:20 Željko Stojkić, **Igor Bošnjak**:  
CONCEPT OF LEARNING FACTORY AT FSRE
- 12.40 **Massimo Rogante**, Vasily T. Lebedev, Aurel Radulescu:  
SANS CHARACTERIZATION OF MONO-ETHYLENE-GLYCOL BASED INDUSTRIAL POLYURETHANES  
SAMPLES
- 13.00 **Michaela Štamborská**, Juraj Lapin, Tatiana Pelachová, Oto Bajana, Alena Klimová:  
USING THE 3-POINT BENDING METHOD TO STUDY FRACTURE BEHAVIOUR OF CAST IN-SITU TiAl  
MATRIX COMPOSITE REINFORCED WITH CARBIDE PARTICLES
- 13.20 **Ladislav Vrsalović**, Radosna Jerčić, Senka Gudić, Ivana Ivanić, Stjepan Kožuh, Borut Kosec, Milan  
Bizjak, Mirko Gojić:  
THE INFLUENCE OF pH AND ELECTROLYTE TEMPERATURE ON CORROSION BEHAVIOUR OF  
CuAlMnTi ALLOY RIBBONS IN NaCl SOLUTION

**13:45 Lunch – Faculty restaurant**

**15:15 Excursion: Land of Lakes – with dinner**

**22:30 Return to Split**

Friday, 28<sup>th</sup> September 2018

**SESSION II – B401**

**Chairmen: Nikša Čatipović, Zvonimir Dadić**

- 09.00 EVN – **Neven Alujević**: “Plinification of Split-Dalmatia County”  
“PRESENTATION”
- 09.15 **Kateryna Kamyshnykova**, Juraj Lapin:  
PROCESSING AND PROPERTIES OF IN-SITU TiAl-based MATRIX COMPOSITE REINFORCED WITH  
CARBIDE PHASE PARTICLES
- 09.30 **Duško Lukač**:  
COMPUTER SIMULATIONS OF ROBOT INTEGRATED PRODUCTION PROCESSES WITH KUKA SIM  
PRO
- 09.45 **Jure Krolo**, Branimir Lela, Domagoj Kojundžić, Jelena Šerić:  
FLOW STRESS DETERMINATION FOR ALUMINUM WASTE BASED COMPOSITES
- 10.00 **Mate Jurjević**, Žarko Koboević, Nikša Koboević, Nino Storelli:  
PREDNOSTI MEĐUOSOVINE IZRAĐENE OD KOMPOZITNOG MATERIJALA U ODNOSU NA ČELIČNE
- 10.15 **Miglana Paneva**:  
RESEARCH OF MECHANICAL CHARACTERISTICS IN TENSILE TESTS OF LOW CARBON STEEL  
SAMPLES DURING TRANSFORMATION FROM HOT ROLLED TO COLD ROLLED SHEET METAL
- 10.30 Ladislav Vrsalović, **Nikša Čatipović**, Dražen Živković, Zvonimir Dadić, Stjepan Kožuh, Mirko Gojić:  
THE INFLUENCE OF COPPER CONTENT ON CORROSION BEHAVIOR OF DUCTILE IRON AND  
AUSTEMPERED DUCTILE IRON
- 10.45 **Ivana Dumanić**, Sonja Jozić, Dražen Bajić And Mihovil Sučić:  
EXPERIMENTAL INVESTIGATION AND MULTI-OBJECTIVE OPTIMIZATION OF CONTROLLABLE  
PARAMETERS IN TURNING PROCESS USING TAGUCHI METHOD AND GREY RELATIONAL  
ANALYSIS

**11.00 Coffee break**

### Session III – B401

Chairmen: **Nikša Čatipović, Zvonimir Dadić**

- 11.40 **Andrej Bašić**, Marko Mladineo, Ivan Peko, Amanda Aljinović:  
3D SCANNING, CAD OPTIMIZATION AND 3D PRINT APPLICATION IN CULTURAL HERITAGE:  
AN EXAMPLE ON STATUE FROM THE ANCIENT SALONA
- 11.55 **Mišo Jurčević**, Željko Penga, Branko Klarin, Sandro Nižetić:  
NUMERICAL ANALYSIS AND EXPERIMENTAL VALIDATION OF TRANSIENT HEAT TRANSFER  
DURING SOLIDIFICATION/MELTING INSIDE AN INSULATED TANK
- 12.10 **Antonio Geci**, Željko Penga, Gojmir Radica, Sandro Nižetić:  
COMPUTATIONAL FLUID DYNAMICS ANALYSIS AND OPTIMIZATION OF MANIFOLD DESIGN FOR  
PLATE TYPE HEAT EXCHANGERS
- 12.25 **Dario Iljkić**, Mauro Maretić, Luciano Gržinić And Goran Vratović:  
AKTIVACIJA AUSTENITNOG NEHRĐAJUĆEG ČELIKA ZA POSTUPAK BESTRUJNOGA NANOŠENJA NI-  
P PREVLAKE
- 12.40 Goran Salopek, Marko Dunđer, Mladen Perinić, David Ištoković, Zoran Jurković, **Maja Marković**:  
ADVANTAGES OF ADDITIVE MANUFACTURING IN PRODUCTION OF GEARS FOR PLANETARY  
REDUCERS
- 12.55 **Kenan Varda**, Amra Talić-Čikmiš, Fuad Hadžikadunić, Malik Čabaravdić:  
OFFLINE NUMERICAL SIMULATION OF 2AJ-RV ROBOT KINEMATIC MECHANISM CAD MODEL  
USING LABVIEW AND SOLIDWORKS
- 13.10 **Ratko Mimica**:  
HARDNESS VERSUS TIME DEPENDANCY DURING ARTIFICIAL AND INTERRUPTED AGEING OF  
ALMGSI0.5 ALUMINIUM ALLOY
- 13.30 Closing speech**
- 13.45 Lunch – Faculty restaurant**

### Session IV – B402

Chairmen: **Jure Krolo, Ivana Dumanić**

- 11.40 **Ivo Fabjanac**, Željko Penga, Gojmir Radica, Sandro Nižetić:  
COMPUTATIONAL FLUID DYNAMICS ANALYSIS AND OPTIMIZATION OF RESIDENTIAL BUILDING  
AIR CONDITIONING
- 11.55 **Denis Chikurtev**, Milena Groueva, Nikolay Stoimenov:  
METHOD FOR TESTING THE GRINDING MEDIA IN MILLS
- 12.10 **Stefan Karastanev**:  
RENOVATING OF USED INDUSTRIAL ROBOTS FOR NEW PURPOSES
- 12.25 **Stanislav Gyoshev**:  
ICT FOR 3D MODELING AND 3D TACTILE VISUALIZATION OF SITES OF CULTURAL AND  
HISTORICAL HERITAGE
- 12.40 **Sonja Jozić**, Dražen Bajić, Ivana Dumanić, Marko Kodžoman:  
OPTIMIZATION OF HIGH PRESSURE DIE CASTING PROCESS USING TAGUCHI METHOD AND  
COMPUTER AIDED CASTING SIMULATION TECHNIQUE
- 12.55 **Peter Panev**:  
DEVELOPMENT OF AUTOMATIC PACKING LINE FOR SINGLE PACKS
- 13.10 **Nikolay Stoimenov**:  
INVESTIGATION OF MATERIALS BEHAVIOR IN SEMI AUTOGENOUS GRINDING MILL
- 13.30 Closing speech (B401)**
- 13.45 Lunch – Faculty restaurant**