

## **MTSM 2019**

**Conference venue:**

**Faculty of Electrical Engineering, Mechanical Engineering and Naval Architecture –  
Amphitheatar B401**

### **CONFERENCE SCHEDULE**

**Thursday, 26<sup>th</sup> September 2019**

**08.30 – 09.30 Participant registration**

**09.30 – 09.45 Welcome address**

#### **INTRODUCTORY PRESENTATIONS**

**SESSION I – B401**

**Chairmen: Zvonimir Dadić, Nikša Čatipović**

**09.45 HILTI Croatia d.o.o. – Maja Bruketa Bujanović, HR recruiter**

**10.00 EVN Croatia Plin – Zlatko Budrovčan**

**10.15 FESB STUDENTS**

**MATERIALS AND TECHNOLOGIES USED THROUGH HYDROCONTEST-X PROJECT BUILDING –  
Matej Dević**

**10.30 Livio Giuliani, Morando Soffritti, Raoul Saggini, Massimo Rogante:  
ELECTROMAGNETIC FIELDS: ONCOGENESIS AND ONCOTHERAPY**

**10.45 Coffee break**

**SESSION II – B401**

**Chairmen: Marina Crnjac, Nikša Čatipović**

- 11.30 **Arun Gopinathan**, Jaroslav Jerz, František Simančík, Jaroslav Kováčik, Ľubomír Pavlík:  
ASSESSMENT OF THE ALUMINIUM FOAM PANEL ON PCM BASED THERMAL ENERGY STORAGE
- 11:45 **Jure Bernetič**, Borut Kosec, Gorazd Kosec, Mirko Gojić, Zijah Burzić, Jan Foder, Ladislav Vrsalović, Milan Bizjak, Aleš Nagode:  
NEW GENERATION OF ARMORED STEEL
- 12:00 Jaqueline Dilly, Clarissa Sartori Ziebell, **Liane Roldo**, Lauren Da Cunha Duarte, José Luís Farinatti Aymone, Luís Henrique Alves Cândido:  
THE INFLUENCE OF THE CUTTING METHOD ON THE HIGH-IMPACT POLYSTYRENE PROPERTIES MEASURED BY DYNAMIC MECHANICAL THERMAL ANALYSIS
- 12.15 Andrea Gatto, Massimo Rogante, Eleonora Santecchia, **Paolo Mengucci**:  
NANOSCALE CHARACTERIZATION OF METAL ALLOYS PRODUCED BY LASER POWDER BED FUSION
- 12.30 **Mirko Gojić**, Gorazd Kosec, Ivana Ivanić, Stjepan Kožuh, Ladislav Vrsalović, Borut Kosec:  
FRACTOGRAPHY ANALYSIS OF LOW ALLOYED STEEL
- 12.45 **Jaroslav Jerz**, František Simančík, Arun Gopinathan, Anton Puškár, Daniel Szabó, Ján Španielka:  
ALUMINIUM FOAM BASED ROOFING FOR ENERGY EFFICIENT HEAT RECOVERY FROM SOLAR GAINS AND MAINTAINING OF SUFFICIENT THERMAL COMFORT IN BUILDING INTERIORS
- 13:00 **Massimo Rogante**, Vasily T. Lebedev:  
ADVANCED CHARACTERIZATION OF POLYMER CEMENT CONCRETES BY SMALL ANGLE NEUTRON SCATTERING
- 13:15 **Maja Marković**, Sandro Doboviček, Duško Pavletić, Biserka Runje:  
CONCEPT OF RECONFIGURABLE INSPECTION SYSTEM
- 13:45 Lunch – Faculty restaurant**
- 15:15 Excursion: ŠIBENIK - FORTRESSES GUARD THE GEM – with dinner**
- 22:30 Return to Split**

Friday, 27<sup>th</sup> September 2019

**INTRODUCTORY PRESENTATIONS**

**SESSION III – B401**

**Chairmen: Ivana Dumanić, Jure Krolo**

- 09.00 NRC Aerospace Research Centre, Ottawa, Canada – **Azzedine Dadouche, Qi Yang**
- 09.15 NATO STO (Science and Technology Organization) PROJECT – “Development and evaluation of an advanced PACVD TiN/TiCN coating for military vehicle sliding bearing application” – Darko Landek, Mirko Jakopčić, **Krešimir Grilec**, Ivan Leutar, Azzedine Dadouche, Qi Yang
- 09.30 **FESB STUDENTS**  
Flow Design Team, Aerotechnic Association Split – **Ivana Nikolić, Anita Borozan**
- 09:45 **FESB STUDENTS**  
FESB Racing TEAM – **Domagoj Šanić, Filip Dugopoljac, Marko Franjić**

**SESSION IV – B401**

**Chairmen: Ivana Dumanić, Jure Krolo**

- 10.00 **Amanda Aljinović**, Nikola Gjeldum, Marina Crnjac, Marko Mladineo:  
ANALYSIS OF PERFORMANCES OF RFID SYSTEMS FOR ASSEMBLY LINE PURPOSES IN LEARNING FACTORY
- 10.15 **Amna Bajtarević**, Amra Talić, Sabahudin Ekinović, Fuad Hadžikadunić:  
MATHEMATICAL MODELING OF POLYURETHANE FOAM ELASTICITY MEASURING PROCESS
- 10.30 Zvonimir Dadić, Senka Gudić, Ladislav Vrsalović, **Dario Kvirgić**, Ivana Ivanić, Nikša Čatipović:  
DIFFERENT CORROSION BEHAVIOUR OF CUNI10FE1MN ALLOY CONDENSER TUBES IN SEAWATER
- 10.45 **Krešimir Grilec**, Lidija Ćurković, Irena Žmak, Marijana Majić Renjo:  
EROSION WEAR OF SLIP CAST ALUMINA AND ALUMINA TOUGHENED ZIRCONIA CERAMICS
- 11:00 **Dario Markota**, Gojmir Radica, Mykhaylo Lototskyy, Ivan Tolj:  
AN ENERGY MANAGEMENT OF A FUEL CELL/BATTERY HYBRID SYSTEM FOR A FORKLIFT APPLICATION
- 11.15 **Ratko Mimica**:  
MICRO HARDNESS MEASUREMENTS OF ALMGSI0.5 ALLOY WELDED BY COLD WIRE GTAW WITH DIFFERENT PRE WELD AND PWHT
- 11.30 Coffee break**

## Session V – B401

Chairmen: **Amanda Aljinović, Zvonimir Dadić**

- 12.00 **Krešimir Grilec**, Suzana Jakovljević, Luka Premužić:  
DEFORMATION MONITORING OF ALUMINIUM FOAMS COMPRESSION
- 12.15 **David Ištoković**, Mladen Perinić, Zoran Jurković:  
MINIMIZING THE MAKESPAN IN THE FLOWSHOP WITH SEQUENCE-DEPENDENT SETUP  
TIMES: SIMULATION APPROACH
- 12.30 **Ivan Jandrlić**, Stoja Rešković, Patrik Tarandek, Ljerka Slokar, Tin Brlić:  
STUDY ON STRENGTHENING DURING COLD DRAWING OF STEEL TUBES
- 12.45 Krolo Jure, **Ivana Dumanić**, Sonja Jozić, Branimir Lela:  
MICROSTRUCTURE OF THE EXTRUDED ALUMINIUM ALSI9CU3(FE) MACHINING CHIPS  
REHEATED IN THE SEMISOLID STATE
- 13.00 **Amalija Horvatić Novak**, Biserka Runje, Srđan Medić:  
REFERENCE OBJECTS FOR ERROR CORRECTION IN CT DIMENSIONAL MEASUREMENT
- 13.15 **Petar Piljek**, Zdenka Keran, Luka Pavličić:  
EXPERIMENTAL AND NUMERICAL DETERMINATION OF FRICTION COEFFICIENT IN METAL  
FORMING PROCESSES
- 13:30 **Zdenka Keran**, Amalija Horvatić Novak, Biserka Runje, Petar Piljek:  
DYNAMIC MEASUREMENTS IN COINING PROCESS
- 13.45 Closing speech**
- 14.00 Lunch – Faculty restaurant**