

MATRIB 20'19

Organized by:

Croatian Society for Materials and Tribology - Croatia

- Dublin Institute of Technology - Ireland
- Institute of Materials and Machine Mechanics Slovak Academy of Sciences - Slovakia
- Istituto di studi superiori dell' Istria - Croatia
- Josip Juraj Strossmayer University of Osijek, Mechanical engineering Faculty in Slavonski Brod - Croatia
- University of Rijeka, Department of Polytechnic - Croatia
- University of Rijeka, Technical faculty - Croatia
- University North - Croatia
- University of Zagreb, Faculty of Graphic Arts - Croatia
- University of Zagreb, Faculty of Metallurgy – Croatia

With support of:

- University of Zagreb, Faculty of Mechanical Engineering and Naval Architecture - Croatia
- Croatian Chamber of Economy



CONFERENCE TOPICS:

- materials and processes
- metallurgy
- testing and characterization of materials
- friction and wear
- surface engineering
- chemical engineering
- nanomaterials and nanotechnology
- materials protection
- lubrication
- materials in graphic industry
- materials in naval architecture
- materials in mining
- materials in civil engineering education

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- Sunčana Smokvina Hanza
- Suzana Jakovljević
- Tamara Aleksandrov Fabijanić
- Tea Marohnić
- Zdenka Zovko Brodarac
- Željko Alar
- Željko Maričić

PROGRAM:

26 th June, Wednesday

21:30 h WELCOME RECEPTION // HOTEL POSEJDON

27 th June, Thursday

8:30 – 9:30 h Registration

9:30 – 9:45 h Opening ceremony

9:45 – 11:15 h **LECTURES**

1. Maja Grbavac, **Gorana Baršić**, Vedran Šimunović - TRACEABILITY FOR STYLUS INSTRUMENTS MEASUREMENTS – *Invited lecture*
2. **Matija Sakoman**, Danko Ćorić - DEVELOPMENT OF ADVANCED CEMENTED CARBIDE CUTTING TOOLS - TRENDS IN INDUSTRY AND SCIENCE – *Invited lecture*
3. **Lidija Runko Luttenberger** - CIRCULAR ECONOMY AND FOOD PACKAGING/FOOD NEXUS
4. **Miće Jakić**, Jelena Jakić, Iva Radonić - KINETIC ANALYSIS OF THERMAL DEGRADATION OF THE POLYVINYL CHLORIDE/MAGNESIUM HYDROXIDE BLENDS
5. **Robert Basan**, Tea Marohnić, Sunčana Smokvina Hanza - PREGLED POSTOJEĆIH PRISTUPA I METODA ZA PROCJENU CIKLIČKIH I ZAMORNIH PARAMETARA MATERIJALA.

11:15 – 11:45 h Coffee break

11:45 – 14:30 h **LECTURES**

1. **Dalibor Viderščak**, Zdravko Schauperl, Amir Ćatić, Bruno Babić INFLUENCE OF REINFORCEMENT ON PROPERTIES OF DENTAL ACRYLIC RESIN
2. **Sanja Perinović Jozić**, Anamarija Stoilova, Jelena Jakić, Branka Andričić - PREPARATION AND THERMAL ANALYSIS OF POLYLACTIC ACID/MAGNESIUM HYDROXIDE COMPOSITES
3. Marko Katić, Helena Tubić, Jakov Baričević - APPLICATION OF ERROR SEPARATION METHOD ON STRAIGHTNESS MEASUREMENT
4. **Lana Makovec**, Antun Lovro Brkić, Katja Petric Maretić, Mateja Cindrić - EPOXY RESIN OPTICAL PERFORMANCE AND ITS APPLICATION

5. **Matija Cvetnić**, Lidija Furač, Dajana Kučić Grgić, Šime Ukić, Marinko Markić, Hrvoje Kušić, Ana Lončarić Božić, Tomislav Bolanča - DETERMINATION OF DEGRADATION KINETICS OF PHARMACEUTICALS
6. **Matija Cvetnić**, Dora Furač, Lidija Furač, Dajana Kučić Grgić, Šime Ukić, Marinko Markić, Hrvoje Kušić, Ana Lončarić Božić, Tomislav Bolanča - DEXAMETHESONE REMOVAL SIMULATION BY ADSORPTION ON IRON(III) HYDROXIDE
7. **Matija Cvetnić**, Ana Tolić, Marija Sigurnjak, Dajana Kučić Grgić, Šime Ukić, Marinko Markić, Hrvoje Kušić, Ana Lončarić Božić, Tomislav Bolanča - QSAR MODELS FOR PREDICTION OF BIODEGRADABILITY OF PHARMACEUTICALS IN WATER

 14:30 – 15:30 h Lunch break

 15:30 – 18:00 h POSTER SESSION 1

19:00 h OPENING OF THE EXHIBITION // Gallery Vela Luka

 Best photos from the 8th International Photo Contest "MATRIB - INSPIRATION WITH MATERIALS"

 21:15 h Visual installation - POČETA^K – Vela Spilja – Vela Luka

28 th June, Friday

9:30 – 10:45 h LECTURES

1. **Mateja Šnajdar Musa**, Jurica Huljev – NEW TYPE OF GRAPHITE COMPOSITE FOR THE APPLICATION IN THE HEAT EXCHANGERS – *Invited lecture*
2. **Marko Morić** - THE FUTURE AND DIRECTION OF TRENDS IN THE GRAPHIC INDUSTRY – *Invited lecture*
3. **Danko Ćorić**, Matija Sakoman, Roman Dragojević - INFLUENCE OF THE STRESS RATE ON THE RESULTS OF TENSILE TESTING
4. **Damir Barbir**, Pero Dabić, Ljubica Tunjić - APPLICATION OF FRATTINI TEST AND SATURATED LIME TEST TO ACCESS POZZOLANIC ACTIVITY OF DIFFERENT ALUMINOSILICATE MATERIALS
5. **Marin Ambrušec**, Suzana Jakovljević - ANALYSIS OF WEAR TRACKS OF HUNTING RIFLE BARREL

 10:45 – 11:15 h Coffee break

 11:15 – 14:00 h LECTURES

1. **Ivana Dumanić**, Jure Krolo, Sonja Jozić, Branimir Lela, Dražen Bajić, Ljumović Petar – INFLUENCE OF THE PROCESSING ROUTE ON THE MICROSTRUCTURE FORMATION AT SEMI-SOLID TEMPERATURES FOR ALUMINUM ALLOY A380
2. **Pero Dabić**, Damir Barbir, Josipa Lovrić - ASSESSMENT OF THE APPROVED ADDITION OF ZEOLITE SATURATED WITH ZINC IONS IN CEMENT PASTES, CEM I, WITH MONITORING OF SPECIFIC ELECTRICAL CONDUCTIVITY AND Pb-Cu ELECTRODE POTENTIAL
3. **Josip Bota**, Zlata Hrnjak-Murgić, Dubravko Banić, Maja Brozović - MECHANICAL PROPERTIES AND LIGHTFASTNESS OF PAPERBOARD COATED WITH PCL NANOCOMPOSITES
4. **Gorana Petković**, Ivana Bolanča Mirković, Suzana Pasanec Preprotić - STRENGTH OF NANO-MODIFIED POLYVINYL-ACETATE ADHESIVE JOINTS AT TEMPERATURE AND HUMIDITY CHANGES
5. **Fabijan Nushi**, Iva Vasiljev, Ana Agić, Miroslav Mikota - 3D PRINTING OF TACTILE POTOGRAPHY
6. **Marina Vukoje**, Rahela Kulčar, Ivana Krajnović, Mirela Rožić - STABILITY STUDIES AND DEGRADATION MECHANISMS OF THERMOCHROMIC OFFSET PRINTS

14:00 – 15:30 h Lunch break

15:30 – 17:00 h POSTER SESSION 2

21:00 h CONFERENCE DINNER // Hotel Posejdon

29th June, Saturday

9:00 – 18:00 h EXCURSION TO THE ISLAND OF PROIZD

POSTER SESSION

1. **Maja Zebić Avdičević, Krešimir Košutić, Slaven Dobrović** - CHARACTERIZATION OF ULTRAFILTRATION CERAMIC MEMBRANES WITH ORGANIC MARKERS IN TEXTILE WASTEWATER TREATMENT INDUSTRY
2. **Ivana Bolanča Mirković; Mia Klemenčić; Nenad Bolf** - CHARACTERIZATION OF PARTICLES ON RECYCLED PAPER SHEETS OBTAINED FROM CARDBOARD PHARMACEUTICAL PACKAGING
3. **Ivana Bolanča Mirković; Antonio Kralj, Marina Vukoje, Zdenka Bolanča** - DURABILITY OF PHOTOGRAPHY UNDER DEFINED CONDITIONS OF ACCELERATED AGEING PAPER TITLE
4. **Franka Žuvela Bošnjak, Igor Majnarić, Suzana Kutnjak-Mravlinčić** - QUANTITATIVE ANALYSIS OF CMY REPRODUCTION CLEAN INKJET WITH SUBLIMATION TISSUE ON POLYESTER TANK
5. **Marko Horvatek, Vedran Šimunović, Gorana Baršić, Nenad Drvar** - CONCEPT OF POSITIONING ACCURACY TESTING OF NUMERICALLY CONTROLLED AXIS WITH 3D SCANNING SYSTEM
6. **Hrvoje Ivanković, Anamarija Rogina, Ivona Košić, Maja Antunović, Marica Ivanković** - THE MODIFICATION OF BIOLOGICAL PROPERTIES OF TITANIUM FOR BIOMEDICAL APPLICATION
7. **Suzana Jakovljević, Krešimir Grilec, Ivica Antolković** - WEAR OF TOOLS FOR DRAWING ELIPSIS ON METAL SHEETS
8. **Sanja Perinović Jozić, Anamarija Stoilova, Jelena Jakić, Branka Andričić** - PREPARATION AND THERMAL ANALYSIS OF POLYLACTIC ACID/MAGNESIUM HYDROXIDE COMPOSITES
9. **Ivana Ljevak, Eduard Galić, Igor Zjakić** - LABEL REPRODUCTION QUALITY ON DIFFERENT MACHINE CONSTRUCTIONS
10. **Mauro Maretić, Dario Iljkić, Sunčana Smokvina Hanza, Milenko Jokić, Loreta Pomenić, Božo Smoljan** - ELECTROLESS NICKEL-PHOSPHOROUS LAYERS ON AUSTENITIC STAINLESS STEEL SUBSTRATE
11. **Damir Modrić, Antun Lovro Brkić, Sanja Zlatić, Jana Žiljak Gršić** - IDENTIFICATION OF AUTHOR'S SIGNATURE BY USING PCA ON OLD PAINTINGS
12. **Ivana Pavlović, Miroslav Mikota, Petra Ptiček, Teo Žeželj** - RESEARCHES OF THE IMPACT OF SMALL CHANGES OF RGB CHANNELS VALUES ON PHOTOGRAPHIC REPRODUCTION OF SKIN COLOR
13. **Petra Ptiček, Ivana Žganjar, Nikola Mrvac, Miroslav Mikota** - COLOR COMMUNICATION IN TOURISTIC MEDIA CAMPAIGN
14. **Denis Rajh, Bojan Gospodarič, Gorazd Fajdiga** - DEVELOPMENT OF FATIGUE TESTING RIG FOR WOOD SPECIMENS
15. **Ante Rončević, Damira Keček, Matija Konjić** - STANDARDIZATION AS A GLOBAL MARKETING STRATEGY
16. **Biserka Runje, Vesna Alar, Amalija Horvatić Novak, Matko Stanković, Ante Ajduković** - THE REQUIREMENTS ON SURFACE ROUGHNESS OF STAINLESS STEEL FOR GENERAL PURPOSES
17. **Sanja Šolić, Zdravko Schauerl, Amir Čatić, Vlado Tropša** - APPLICATION OF ADDITIVE TECHNOLOGY IN COCR DENTAL FIXED-PROSTHETIC CONSTRUCTIONS
18. **Matjaž Šraml, Srečko Glodež, Gorazd Fajdiga** - FATIGUE LIFE MODELS OF WOOD - A review



27.-29.06.2019., Vela Luka, Croatia

International Conference
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MATERIALS, TRIBOLOGY, RECYCLING

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