



UDRUŽENJE INŽENJERA SRBIJE ZA KORZIJU I ZAŠTITU MATERIJALA
SERBIAN SOCIETY OF CORROSION AND MATERIALS PROTECTION



MEĐUNARODNA KONFERENCIJA
INTERNATIONAL CONFERENCE

STECIŠTE NAUKE I PRAKSE U OBLASTIMA KOROZIJE, ZAŠTITE MATERIJALA
I ŽIVOTNE SREDINE

MEETING POINT OF THE SCIENCE AND PRACTICE IN THE FIELDS OF CORROSION,
MATERIALS AND ENVIRONMENTAL PROTECTION

PROGRAM

September 12-15, 2017, Tara Mountain, Serbia

PROGRAM

TUESDAY | Utorak 12.09.2017.

10.00-20.00 Registration of the participants | *Registracija učesnika*

17.30-17.45 Opening ceremony | *Otvaranje Konferencije*

Plenary lecture | *Plenarno predavanje*

17.45-18.25 **Plenary lecture: Mira Vukčević¹, Ivana Bošković¹, Snežana Nenadović², Miljana Mirković², Marija Ivanović², Svetlana Ilić², Ljiljana Kljajević², Controlled design of geopolymers' properties by the modification of microstructure | *Mogućnost dizajniranja osobina geopolimera modifikovanjem mikrostrukture*,
¹University of Montenegro, Faculty of Metallurgy and Technology, Podgorica, Montenegro, ²University of Belgrade, Laboratory for Materials Sciences, Institute of Nuclear Sciences Vinča, Beograd, Serbia**

18.25-19.05 **Plenary lecture: Filip Kokalj, Circular economy and challenges of waste-to-energy processes in EU | *Cirkularna ekonomija i izazovi procesa energetskog iskorištavanja otpada u EU***,
¹University of Maribor, Faculty of Mechanical Engineering, Maribor, Slovenia

Invited lecture | *Predavanje po pozivu*

19.05-19.30 **Masataka Sakai¹, Shota Noda¹, Yoshio Kobayashi¹, Ken-ichi Watanabe², Hidekazu Koda², Hiroshi Kunigami², Hideki Kunigami², Fabrication of Palladium/Platinum Core-Shell Nanoparticles by Electroless Metal Plating**, ¹Ibaraki University, Department of Biomolecular Functional Engineering, College of Engineering, Hitachi, Ibaraki, Japan, ²K. K. Shinko Kagaku Kogyosho, Mashimori, Koshigaya, Saitama, Japan

19.30 Welcome Reception – COCKTAIL | *KOKTEL*

Detaljnije informacije o Konferenciji mogu se naći na
<http://sitzam.org.rs/YUCORR/>

WEDNESDAY | Sreda 13.09.2017.

Plenary lectures | *Plenarna predavanja*

09.30-10.10 **Plenary lecture: Mirko Gojić¹, Stjepan Kožuh¹, Ladislav Vrsalović², Properties of Cu-Based Shape Memory Alloys | Svojstva legura s prisjetljivosti oblika na bazi bakra,** ¹University of Zagreb, Faculty of Metallurgy, Sisak, Croatia, ²University of Split, Faculty of Chemistry and Technology, Split, Croatia

10.10-10.50 **Plenary lecture: Snežana Šerbula, The impact of mining metallurgical copper production in Bor on the environment | Uticaj rudarsko metalurške proizvodnje bakra u Boru na životnu sredinu,** University of Belgrade, Technical Faculty in Bor, Bor, Serbia

10.50-11.10 **BREAK | PAUZA**

Invited lecture | *Predavanje po pozivu*

11.10-11.35 **Milica Gvozdrenović, Electrochemical biosensors based on electroconducting polymers | Elektrohemijski biosenzori na bazi elektroprovodnih polimera,** University of Belgrade, Faculty of Technology and Metallurgy, Belgrade, Serbia

Oral presentations | *Usmena saopštenja*

11.35-11.50 **Pavlović Marija, Pavlović Dragana, Marković Milica, Čakmak Dragan, Kostić Olga, Jarić Snežana, Mitrović Miroslava, Pavlović Pavle, Chemical fractionation and mobility of potentially toxic metals in urban soils from four cities in Serbia | Hemijsko frakcionisanje i mobilnost potencijalno toksičnih metala u urbanim zemljištima četiri grada u Srbiji,** University of Belgrade, Department of Ecology, Institute for Biological Research "Siniša Stanković", Belgrade, Serbia

11.50-12.05 **Nataša M. Vukićević¹, Vesna S. Cvetković¹, Ljiljana S. Jovanović², Jovan N. Jovićević¹, Electrochemical deposition of niobium oxides from acidic solution on glassy carbon | Elektrohemijsko taloženje niobijum oksida iz kiselih rastvora na staklastom ugljeniku,** ¹University of Belgrade, Institute of Chemistry, Technology and Metallurgy, Belgrade, Serbia, ²University of Novi Sad, Faculty of Science, Novi Sad, Serbia

12.05-12.20 **Predrag S. Kojić, Nataša Lj. Lukić, Milica Ž. Karadžić, Svetlana S. Popović, Relative importance of operating parameters in the membrane external loop airlift reactor,** University of Novi Sad, Faculty of Technology, Novi Sad, Serbia

12.20-12.35 *C. Oulmas*^{1,2}, *Z. Mekhalif*¹, *J. Delhalle*¹, *D. Boughrara*², *S. Boutarfaia*³, *A. Kadri*², **Cathodic protection of carbon steel in 3%NaCl by Mg doped AlZnSnSi sacrificial anode**, ¹Laboratoire de Chimie et d'Electrochimie des Surfaces, Université de Namur, Namur, Belgique, ²Laboratoire de Physique et Chimie des Matériaux, Université Mouloud MAMMERI de Tizi-Ouzou, Tizi-Ouzou, Alger, ³Centre de Recherche CRND / COMENA, Sebala, Draria, Alger

12.35-12.50 **Prezentacija kompanije ALFATERM d.o.o., Čačak**

14.00 **PICNIC | RUČAK U PRIRODI**

18.00-20.00 **POSTER SESSION | POSTER SEKCIJA**

1. **Guy Decelles**, **Corrosion Protection Systems based on Lamellar Zinc Pigments**, ECKART Suisse SA, Vetroz, Switzerland
2. **Svetlana Popović**¹, **Milica Karadžić**¹, **Nataša Lukić**¹, **Predrag Kojić**¹, **Jiri Cakl**², **Matthias Wessling**³, **Enhancement of ultrafiltration of oily wastewaters by application of twisted tapes**, ¹University of Novi Sad, Faculty of Technology Novi Sad, Novi Sad, Serbia, ²University of Pardubice, Faculty of Chemical Technology, Institute of Environmental and Chemical Engineering, Pardubice, Czech Republic, ³RWTH University in Aachen, Faculty of Chemical-Process Engineering, Aachen, Germany
3. **Nataša Lj. Lukić**, **Predrag S. Kojić**, **Svetlana S. Popović**, **Dragan Lj. Petrović**, **Mass transfer in an external-loop airlift reactor: non-Newtonian fluids**, University of Novi Sad, Faculty of Technology, Department of Chemical Engineering, Novi Sad, Serbia
4. **Vesna S. Cvetković**¹, **Nataša M. Vukićević**¹, **Nebojša D. Nikolić**¹, **Goran Branković**², **Jovan N. Jovićević**¹, **Electrochemical formation of magnesium oxide/hydroxide structures**, ¹University of Belgrade, ICTM-Department of Electrochemistry, Belgrade, Serbia, ²University of Belgrade, Institute for Multidisciplinary Research, Belgrade, Serbia
5. **M. Stefanut**¹, **A. Cata**¹, **D. Rosu**¹, **M. Dobrescu**¹, **I.M.C. Ienascu**^{1,2}, **Methods for treatment of waste waters from galvanizing plants**, ¹National Institute of Research and Development for Electrochemistry and Condensed Matter, Timișoara, Romania, ²“Vasile Goldiș” University of Arad, Faculty of Medicine, Pharmacy and Dentistry, Arad, Romania
6. **Ružica Mičić**, **Biljana Dekić**, **Vidoslav Dekić**, **Strahinja Simonović**, **Dragana Sejmanović**, **Novica Ristić**, **Danijela Vukičić**, **Ecological aspects of the geochemical composition of the soil and anthropogenic impact on the**

content of heavy metals, University of Pristina, Faculty of Science and Mathematics Kosovska Mitrovica, Serbia

7. *Ioana M.C. Ienascu^{1,2}, Adina Cata¹, Mariana N. Stefanut¹, Iuliana M. Popescu³*, **“Green” technology for obtaining biologically active compounds**, ¹National Institute of Research and Development for Electrochemistry and Condensed Matter, Timișoara, Romania, ²“Vasile Goldiș” University of Arad, Faculty of Medicine, Pharmacy and Dentistry, Arad, Romania, ³Banat’s Agricultural Science University, Faculty of Agriculture, Department of Chemistry and Biochemistry, Timișoara, Romania
8. *Adina Cata¹, Mariana N. Stefanut¹, Ioana M.C. Ienascu^{1,2}*, **Thermal Stability of Anthocyanin-based Extract from Red Onion Skin**, ¹National Institute of Research and Development for Electrochemistry and Condensed Matter, Timișoara, Romania, ²“Vasile Goldiș” University of Arad, Faculty of Medicine, Pharmacy and Dentistry, Arad, Romania
9. *Darko Vuksanović¹, Petar Živković², Vladan Vučelić³*, **Selection of wastewater treatment technology of the capital of Podgorica in the new plant**, ¹University of Montenegro, Faculty of Metallurgy and Technology, Podgorica, Montenegro, ²Medix d.o.o. Podgorica, Montenegro, ³Vodovod i kanalizacija d.o.o. Podgorica, Montenegro
10. *Refik Zejnilović¹, Dragan Radonjić², Darko Vuksanović², Jelena Šćepanović²*, **Waste water purification system in the pharmaceutical industry**, ¹University of Montenegro, Faculty of Pharmacy, Podgorica, Montenegro, ²University of Montenegro, Faculty of Metallurgy and Technology, Podgorica, Montenegro
11. *Jelena Šćepanović¹, Darko Vuksanović¹, Dragan Radonjić¹, Refik Zejnilović²*, **Monitoring of the waste water treatment plant from the tunnel | Monitoring rada postrojenja za prečišćavanje otpadnih voda iz tunela**, ¹University of Montenegro, Faculty of Metallurgy and Technology, Podgorica, Montenegro, ²University of Montenegro, Faculty of Pharmacy, Podgorica, Montenegro
12. *Marija Janačković¹, Milica Gvozdrenović², Branimir Grgur²*, **Polypyrrole as cathodic material in electrochemical cell with aqueous electrolyte**, ¹University of Priština, Faculty of Technical Sciences, Kosovska Mitrovica, Serbia, ²University of Belgrade, Faculty of Technology and Metallurgy, Belgrade, Serbia
13. *Dragiša Obradović¹, Dragan Obradović¹*, **Economical meaning of corrosion: losses and damages**, ¹Faculty for Management, Belgrade, SDIT-HTM Požarevac, Serbia, ²School of agriculture, Požarevac, Serbia
14. *Zagorka Koneska, Ružica Manojlović, Dafinka Stoevska - Gogovska*, **Electrochemical behavior of zirconium in NaOH solutions**, University St.

Kiril and Metodij, Faculty of Technology and Metallurgy, Skopje, R. Macedonia

15. **Veljko Đukić, The disposal of waste sludge from the technological process of paper production**, PanEuropean University "Apeiron"- Banja Luka, Republic of Srpska, Bosnia and Herzegovina
16. *Branko Pejović, Slavko Smiljanić, Miladin Gligorić, Marija Riđosić, Aleksandar Došić, Solution of a complex problem in the field of chemical effect of atmosphere on steel products by graphical method*, University of East Sarajevo, Faculty of Technology Zvornik, Republic of Srpska, Bosnia and Herzegovina
17. **Vesna Lazarević¹, Ivan Krstić², Development of biological procedure of wastewater emulsion from metalworking process**, ¹Military hospital, Nis, Serbia, ²University of Niš, Faculty of Occupational Safety, Niš, Serbia
18. **Zoran Janković¹, Marijana R. Pantović Pavlović², Anto Gajić³, Veljko Marić⁴, Jasmina Stevanović², Sanja Eraković², Miroslav M. Pavlović², Novel method for synthesis of biocompatible hydroxyapatite/passive oxide layer on modified titanium surface**, ¹V&Z Zaštita, d.o.o., Banja Luka, Republic of Srpska, Bosnia and Herzegovina, ²University of Belgrade, ICTM-Department of Electrochemistry, Belgrade, Serbia, ³Rudnik i termoelektrana Ugljevik, Republic of Srpska, Bosnia and Herzegovina, ⁴University of East Sarajevo, Faculty of Medicine Foča, Republic of Srpska, Bosnia and Herzegovina
19. **Marija G. Riđosić¹, Milorad V. Tomić¹, Miroslav M. Pavlović², Vaso Bojanić³, The roughness of surface of aluminum after chemical and electrochemical treatment**, ¹University of East Sarajevo, Faculty of Technology Zvornik, Republic of Srpska, Bosnia and Herzegovina, ²University of Belgrade, ICTM-Department of Electrochemistry, Belgrade, Serbia, ³University of Banja Luka, Faculty of Agriculture, Banja Luka, Bosnia and Herzegovina
20. *Živče Šarkočević¹, Bojan Stojčević², Srđan Jović¹, Dragan Lazarević¹, Corrosion processes in the oil and gas industry and methods for their mitigation*, ¹University of Priština, Faculty of Technical Sciences, Kosovska Mitrovica, Serbia, ²High Technical School of Vocational Studies, Zvečan, Serbia
21. **Dragica Chamovska¹, Andrzej Kowal^{2,3}, Synthesis of modern nanomaterials used for antibacterial and industrial applications**, ¹Ss. Cyril and Methodius University, Faculty of Technology and Metallurgy, Skopje, R. Macedonia, ²Institute of Non-ferrous Metals, CLAiO, Poznan, Poland, ³ELCATAK, Krakow, Poland
22. **Fabler Hamid, Design miniaturized tensile testing machine**, HITEC University Taxila Cantt., Pakistan

23. *Nemanja Tošković, **Danijela Rajić**, Dragan Tošković, Ljubica Vasiljević, Proposed treatment of waste water from the galvanization process, University of East Sarajevo, Faculty of Technology Zvornik, Republic of Srpska, Bosnia and Herzegovina*
24. ***Dragana Pavlović**, Marija Pavlović, Zorana Mataruga, Veljko Perović, Gordana Gajić, Snežana Jarić, Miroslava Mitrović, Pavle Pavlović, Application of pollution indices in the assessment of the potential contamination with heavy metals in urban parks of Pančevo, Obrenovac, Smederevo and Belgrade, University of Belgrade, Department of Ecology, Institute for Biological Research "Siniša Stanković", Belgrade, Serbia*
25. ***Borislav N. Malinović¹**, Tijana Đuričić¹, Miomir G. Pavlović², Treatment of leachate by electrocoagulation using aluminium electrode, ¹University of Banja Luka, Faculty of Technology, Banja Luka, Bosnia and Herzegovina, ²University of Eastern Sarajevo, Faculty of Technology, Zvornik, Bosnia and Herzegovina*

THURSDAY | Četvrtak 14.09.2017.

Plenary lecture | *Plenarno predavanje*

- 10.30-11.10** *Plenary lecture: **Miladin Gligorić¹**, Dragana Tomašević Pilipović², Aleksandar Došić¹, Nataša Slijepčević², Stabilization of waste mud from flotation process | Stabilizacija otpadnog mulja nakon flotacionog procesa*, ¹University of East Sarajevo, Faculty of Technology Zvornik, Republic of Srpska, ²University of Novi Sad, Faculty of Science, Novi Sad, Serbia

Oral presentations | *Usmena saopštenja*

- 11.10.11.25** ***N. D. Nikolić¹**, Lj. Avramović², V. M. Maksimović³, M. M. Pavlović¹, M. Vuković⁴, J. S. Stevanović¹, M. G. Pavlović¹, Correlation between crystal orientation and morphology of silver powder particles obtained by different methods of synthesis and conditions of electrolysis | Uzajamna veza između orijentacije kristala i morfologije čestica praha srebra dobijenih različitim metoda sinteze i uslova elektrolize*, ¹University of Belgrade, ICTM-Department of Electrochemistry, Belgrade, Serbia, ²Mining and Metallurgy Institute, Bor, Serbia, ³University of Belgrade, Vinča Institute of Nuclear Sciences, Belgrade, Serbia, ⁴University of Belgrade, Institute for Multidisciplinary Research, Belgrade, Serbia

- 11.25-11.40** *Bojan Jokić*, **Microstructural characterization and mechanical properties of ceramic materials** | *Mikrostrukturna karakterizacija i mehanička svojstva keramičkih materijala*, University of Belgrade, Faculty of Applied Arts, Belgrade, Serbia
- 11.40-11.55** *Nataša Lukić, Milan Radoičić*, **The presence and importance of removing the present emissions of gasses as a byproduct of wastewater** | *Prisustvo i značaj uklanjanja prisutnih štetnih gasova kao nus proizvod otpadnih voda, JKP Beogradski vodovod i kanalizacija*, Belgrade, Serbia
- 11.55-12.10** *Dragan Radonjić, Jelena Šćepanović, Darko Vuksanović*, **Effects of inorganic inhibitors on corrosion properties Al-Mg alloys in 0.5M solution of NaCl**, University of Montenegro, Faculty of Metallurgy and Technology, Podgorica, Montenegro
- 12.10-12.25** *Jelena Stanković¹, Zoran Mišković², Miomir Pavlović³, Dragica Jevtić², Zlatko Marković²*, **Effect of corrosion propagation in industrial aggressive environment and in salt chamber onto strength of axially tensioned element** | *Uticaj propagacije korozije u industrijski agresivnim sredinama i u slanoj komori na nosivost aksijalno zategnutih elemenata*, ¹Mining and Metallurgy Institute Bor, Bor, Serbia, ²University of Belgrade, Faculty of civil engineering, Belgrade, Serbia, ³University of Belgrade, ICTM-Department of Electrochemistry, Belgrade, Serbia
- 12.25-12.40** *Ivan Ristić¹, Florijan Morović¹, Tamara Erceg¹, Suzana Cakić², Darko Manjencić¹, Jaroslava Budinski-Simendić¹*, **Synthesis of waterborne alkyd resins**, ¹University of Novi Sad, Faculty of Technology Novi Sad, Novi Sad, Serbia, ¹University of Niš, Faculty of Technology Leskovac, Leskovac, Serbia
- 12.40-12.55** **Prezentacija kompanije HELIOS Srbija AD, Gornji Milanovac**
- 12.55** **LUNCH BREAK | PAUZA ZA RUČAK**
- Plenary lecture | Plenarno predavanje**
- 16.00-16.40** *Regina Fuchs–Godec*, **Hydrophobic surfaces**, University of Maribor, Faculty of Chemistry and Chemical Engineering, Maribor, Slovenia
- Oral presentations | Usmena saopštenja**
- 16.40-16.55** *Đendi Vaštag, Slobodan Gadžurić, Milan Vraneš, Nebojša Zec*, **The effect of the alkyl substituents on the inhibitory efficiency of imidazole based ionic liquids** | *Uticaj dužine alkil supstituenta na inhibitorsku efikasnost jonskih tečnosti na bazi imidazola*, University of Novi Sad, Faculty of Sciences, Novi Sad, Serbia

- 16.55-17.10** *Rada Jevtić-Mučibabić¹, Bojana Filipčev¹, Olivera Šimurina¹, Branislav Bogdanović², Biljana Bogdanović², Application of beet molasses in hard sugar cubes: effect on nutritional profile and storage behavior, ¹University of Novi Sad, Institute of Food Technology in Novi Sad, Novi Sad, Serbia, ²AD "Šajkaška", Sugar factory, Žabalj, Serbia*
- 17.10-17.25** *Dragan Soleša, Radovan Vladislavljević, Goran Stevanović, Influence of the school's information capacity on the implementation of the international program Eco-school | Uticaj informatičkih kapaciteta škole na implementaciju međunarodnog programa Eko-škole, University Business Academy in Novi Sad, Faculty of Economics and Engineering Management in Novi Sad, Novi Sad, Serbia*
- 17.25-17.40** *Andrijana Stojanović¹, Srđan Belošević¹, Dragoljub Živković², High temperature corrosion in biomass-fuelled power plant boilers | Visokotemperaturna korozija u energetske kotlovima za sagorevanje biomase ¹University of Belgrade, Institute of Nuclear Sciences Vinca, Laboratory for Thermal Energy and Engineering, Belgrade, Serbia, ²University of Niš, Faculty of Mechanical Engineering, Niš, Serbia*
- 17.40-17.55** *Željko Krivačević, Dejan Grgić, Saša Stojanović, Examination of steel tank floors by MFL (magnetic flux leakage) method, JP Transnafta, Pančevo, Serbia*
- 17.55-18.05** **Prezentacija kompanije PITURA d.o.o. Zemun**
- 18.10** **CLOSING CEREMONY | ZATVARANJE KONFERENCIJE**
- 20.30** **GALA DINNER | SVEČANA VEČERA**

FRIDAY | Petak 15.09.2017.

09.00-13.00 **EXCURSION | IZLET**

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