



VI INTERNATIONAL SCIENTIFIC-PROFESSIONAL SYMPOSIUM

ENVIRONMENTAL RESOURCES, SUSTAINABLE DEVELOPMENT AND FOOD PRODUCTION OPORPH 2019

14 – 15 November 2019
Tuzla, Bosnia and Hercegovina



Symposium programme - OPORPH 2019	
Thursday 14 th November, 2019	
9.00 – 12.00	Registration of participants
10.00 – 11.45	Ceremony Academy
11.45 – 13.00	Lunch in the lobby of the Faculty
13.00 – 14.20	Opening of the Symposium OPORPH 2019
	Plenary session Moderators: Amra Odobašić Vahida Selimbašić Gordan Avdić
13.00 – 13.20	<i>Solubility of bioactive components in supercritical CO₂ - Artificial neural network modelling</i> Kiril Lisichkov Institute of Chemical and Control Engineering Faculty of Technology and Metallurgy Ss. Cyril and Methodius University in Skopje, N. Macedonia
13.20 – 13.40	<i>Water-Energy Nexus: Innovative water management concept for sustainable development</i> Hyunook Kim Department of Environmental Engineering University of Seoul, South Korea
13.40 – 14.00	<i>Today's innovability challenges in corrosion engineering</i> Sanja Martinez Faculty of Chemical Engineering and Technology University of Zagreb, Croatia
14.00 – 14.20	<i>Trends in design and development of catalysts</i> Ante Jukić Faculty of Chemical Engineering and Technology University of Zagreb, Croatia
14.20 – 15.00	Coffee break and presentation of poster section

15.00 – 16.25	Oral presentations Moderators: Elvis Ahmetović Zoran Ilićković Jasmin Suljagić
15.00 – 15.10	<i>Engineering ethics</i> Azra Jaganjac
15.10 – 15.20	<i>Corrosion coupon testing of commercial inhibitor in simulated cooling water</i> Tijana Đuričić
15.20 – 15.30	<i>Isolation of bacterial cultures for effective composting of biowaste</i> Monika Šabić Runjavec
15.30 – 15.40	<i>Comminution kinetics of dolomite in a laboratory ball mill</i> Samira Hotić
15.40 – 15.50	<i>Efficient and green extraction of phenolic compounds from dried aronia using natural deep eutectic solvents</i> Milena Ivanović
15.50 – 16.00	<i>Effect of quality of purified brine and mother liquor on the yield of NaCl in salt production</i> Amira Brkić
16.00 – 16.10	<i>Presence of heavy metals in the soil of urban area of Lukavac and Kalesija and diseases prevalence</i> Sanja Brekalo
16.10 – 16.25	Discussion
19.30	Gala dinner at the Mellain Hotel
Friday 15 th November, 2019	
9.00 – 9.30	Registration of participants
9.30 – 10.30	Plenary session Moderators: Ivan Petric Milica Vilušić Amra Bratovčić
9.30 – 9.50	<i>Modernization of food safety system as a prerequisite for protection of consumers' health and free trade in food</i> Boris Antunović Faculty of Agrobiotechnical Sciences Josip Juraj Strossmayer University of Osijek, Croatia
9.50 – 10.10	<i>Biomass fractionation and catalytic functionalization: A concept of biorefinery</i> Miha Grilc Department of Catalysis and Chemical Reaction Engineering National Institute of Chemistry, Ljubljana, Slovenia

10.10 – 10.30	<i>Sustainable process systems engineering – Accomplishments and future challenges</i> Zdravko Kravanja Faculty of Chemistry and Chemical Technology University of Maribor, Slovenia
10.30 – 11.00	Break
11.00 – 12.05	Oral presentations Moderators: Dijana Miličević Besim Salkić Vedran Stuhli
11.00 – 11.10	<i>Reproductive incompatibility of cherry</i> Zlatko Čmelik
11.10 – 11.20	<i>The linear model for predicting zinc availability in soils of eastern Croatia</i> Hrvoje Hefer
11.20 – 11.30	<i>Physical-chemical analyzes of the fruits of standard pear cultivars grown in Turkey with varieties that were domesticated in our country but originate from Turkey</i> Besim Salkić
11.30 – 11.40	<i>Estimating biomass resources and bioenergy potential: A review of methodologies and challenges</i> Ahmet Alp Şenocak
11.40 – 11.50	<i>Modeling of suspension flows in the context of sustainable technologies</i> Stefan Radl
11.50 – 12.05	Discussion
12.05 – 13.10	Break and presentation of poster section
13.10 – 14.25	Oral presentations Moderators: Sabina Begić Zahida Ademović Edisa Papračanin
13.10 – 13.20	<i>Hydrodynamic fractionation of cellulose fibers using a mini-channel</i> Thomas Schmid
13.20 – 13.30	<i>Conceptual design of a green Power-to-Jet process under varying energy inputs</i> Mahmoud Mostafa
13.30 – 13.40	<i>Reducing greenhouse gas emissions by using alternative fuels in the cement industry</i> Nedim Salihović

13.40 – 13.50	<i>Waste gypsum recycling</i> Filip Brleković
13.50 – 14.00	<i>Removal of textile dye from aqueous solutions by using hydroxyapatite-magnetite nanocomposite materials</i> Ramazan Koca
14.00 – 14.10	<i>Coarsening kinetics analysis of nanocrystalline copper doped cerium(IV) oxide</i> Katarina Mužina
14.10 – 14.25	Discussion
14.25 – 14.45	Break
14.45 – 16.05	Student session Moderators: Antonio Zahirović Emina Razić Una Šerak Merisa Ljevaković
14.45 – 14.55	<i>Impact of raw materials and alternative fuels on the movement of alkali and sulfates in the production of cement</i> Adisa Hasanbašić
14.55 – 15.05	<i>Application of Aspen Energy Analyzer software in solving heat integration problems</i> Amra Rizvanović
15.05 – 15.15	<i>A Review: Characterization of natural fiber reinforced polymer composites</i> Emina Tučić
15.15 – 15.25	<i>Biosorption of heavy metal ions and synthetic dyes from aqueous solutions using lignocellulosic materials</i> Amila Dubravac
15.25 – 15.35	<i>Copper(II) sulfate pentahydrate as agrochemical</i> Mirza Muratović
15.35 – 15.45	<i>Determination of caffeine and sugar content in energy drinks</i> Sulejman Halilović
15.45 – 15.55	<i>Application of Aspen Plus software for solving chemical engineering problems</i> Aida Skejić
15.55 – 16.05	<i>Quality evaluation of bread with additions</i> Aldin Karić
16.05 – 16.20	Discussion
Closing the Symposium	

