

4th International Congress of Chemists and Chemical Engineers of B&H

June 30 - July 2, 2022
Sarajevo



PROGRAMME

JUNE 30, 2022 (Thursday)

20:00 – 22:00 Cocktail Party and Registration – 13th Floor, Cocktail Hall

JULY 01, 2022 (Friday)

08:00-09:30		<i>Registration and Coffee</i>
09:30-10:00		<i>Opening Ceremony</i>
10:00-11:00	CH 1	Plenary Lecture 1: Dr. Suljo Linić. Catalysis and environment: the good, the bad and the ugly
11:00-12:00	CH 1	Plenary Lecture 2: Dr. Farooq Sher. Biomass oxy-fuel combustion technology as carbon neutral renewable source of energy to replace fossil fuels
12:00-12:20		 <i>Coffee Break</i>
12:20-12:40	CH 1	Dr. Sanja Ćavar Zeljković: Mint essential oils: composition and bioactivity
	CH 2	MSc. Karina Marinova: Green nanoparticles from plant extracts with antibacterial effect
12:40-13:00	CH 1	Dr. David Holec: Hydrogen adsorption on graphene-based materials
	CH 2	BSc. Azra Merzić: The impact of open pit mine on nearby watercourse Mala Rijeka, Vareš
13:00-13:20	CH 1	Dr. Petr Tarkowski: Hyphenated techniques as tools for plant growth/development monitoring and plant product quality assessment
	CH 2	Dr. Ivana Carev: Halogenated boroxine dipotassium trioxohydroxytetrafluorotriborate $K_2[B_3O_3F_4OH]$ inhibits emerging multidrug-resistant and β -lactamase-producing opportunistic pathogens
13:20-13:30		<i>Sponsor Ads (Alphachrom)</i>
13:30-14:30		<i>Poster Presentations 1</i>
14:30-15:30		<i>Lunch</i>
15:30-15:50	CH 1	Dr. Nenad Bolf, MA. Matea Gavran: Development of calibration models using process analytical technology for advanced crystallization process control
	CH 2	Dr. Amela Medar: Analysis of the use of STEM and its elements in the HNK educational system
15:50-16:10	CH 1	Dr. Matić Lozinšek: Alkali-metal fluoridooxidovanadates(V) and their complexes with XeF_2 and HF
	CH 2	MSc. Amin Sakić: <i>Ab initio</i> study of alloying impact on the stability of cementite in TRIP-assisted AHSS
16:10-16:30	CH 1	Dr. Nicolas Baldovini: Analytical studies of fragrant raw materials. A quest for their odor active constituents
	CH 2	MSc. Irma Gušić: Optimized and validated RP-HPLC method for the quantification of curcumin in formulations containing <i>Curcuma longa</i> L. extracts
16:30-17:30		<i>Poster Presentations 2</i>

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JULY 02, 2022 (Saturday)

09:00-09:20	CH 1	MSc. Dominik Gehringer: A critical assessment of vdW corrections methods: a case study on graphene
	CH 2	Dr. Ilijana Odak: Evaluation of photostability and thermal stability of selected commercially important essential oils from Bosnia and Herzegovina
09:20-09:40	CH 1	Dr. Miha Virant: Novel metal(II) fluoridooxidomolybdates(VI)
	CH 2	Dr. Dušan Tripković: The effect of metal-metal and metal-oxide interactions on electrocatalytic activity of Pt thin film catalysts
09:40-10:00	CH 1	Dr. Petar Petrov: Water from mineral springs - composition and application in medicine and cosmetics
	CH 2	MSc. Erik Uran: Compounds from the XeF ₂ -TaF ₅ system: Novel synthesis and crystal structures
10:00-11:00	CH 1	Plenary Lecture 3: Dr. Janez Kovač. Chemical characterization of surfaces and thin films for the development of new materials and quality control
11:00-11:20	CH 1	Dr. Fadwa Odeh: Interaction of cucurbiturils with lipid bilayers
	CH 2	MA. Ena Markotić: Inventory of polybrominated diphenyl ethers (PBDEs) in Bosnia and Herzegovina
11:20-11:40		 Coffee Break
11:40-12:00	CH 1	MSc. Nayak Ganesh Kumar: Bulk diffusion of impurities in TiN: an <i>ab initio</i> study
	CH 2	Dr. Tayel El-Hasan: Heavy metal pollution characterization and mobility in agricultural soil caused by steel industrial activities in Central Jordan
12:00-12:20	CH 1	Dr. Milutin Smiljanić: Electrochemical stability and degradation of Pd/C and Rh/C catalysts in acidic media
	CH 2	Dr. Radan Kristian: Recent advances in the field of xenon(II) compounds with polymeric fluoroanions
12:20 – 12:40		Sponsor Ads (Biocentre, Zagreb)
12:40 – 13:00	CH 1	Dr. Syed Ghulam Musharraf: Dereplication of natural products using mass spectrometry integrated approach
	CH 2	MSc. Anes Krečo: Novel “in-house” chemical treatments of pomegranate peel (<i>Punica granatum</i>) for simultaneous heavy metal removal
13:00-14:00		Lunch
14:00-15:00		Poster Presentations 3
15:00-15:15		Poster Awards
20:00		Closing Ceremony & Gala Dinner

Poster Presentations 1: Analytical Chemistry, Environmental Chemistry, Inorganic Chemistry

Poster Presentations 2: Organic Chemistry, Biochemistry and Biotechnology, Medicinal Chemistry, Natural Products Chemistry

Poster Presentations 3: Chemical Engineering, Food Chemistry, Advanced Materials Chemistry, Radiochemistry, Education in Chemistry, Topics Related to Chemistry, Physical and Theoretical Chemistry