

SCIENTIFIC PROGRAMME OF YISAC 2023

Sunday, June 25th, 2023

Location: University of Belgrade - Faculty of Chemistry, Studentski trg 12-16, 11000 Belgrade, Serbia

from 18:00 Registration
 Welcome party

Monday, June 26th, 2023

Location: University of Belgrade - Faculty of Chemistry, Studentski trg 12-16, 11000 Belgrade, Serbia

09:00 - 09:20 Opening of YISAC 2023

09:20 - 11:20

SESSION I: Voltammetric methods

Chairmen: Olha Sarakhman and Martina Zatloukalová

09:20 - 09:40 **Nikola Turuntaš**
Electroanalytical performance of boron doped diamond electrode for the determination of solifenacin

09:40 - 10:00 **Tijana Mutić**
Fabrication of bismuth-oxychloride supported carbon paste electrode for sensitive and selective Quinine sensing

10:00 - 10:20 **Aleksandar Mijajlović**
A novel carbon paste electrode modified by NP-Y₂O₃ doped with the g-C₃N₄ for sensitive electrochemical detection of herbicide bentazone in river, soil, and vegetable samples

10:20 - 10:40 **Maksimiljan Dekleva**
Activated Graphite Glass Composite Thick Film Working Electrodes for Voltammetric Detection of Pesticides

10:40 - 11:00 **Egzontina Shabani**
Electrochemical Detection of Phenolic Compounds in Extra Virgin Olive Oils using a Modified Glassy Carbon Electrode with Multi-Walled Carbon Nanotubes and Titanium Dioxide Nanoparticles: An Organic Solvent-Free Approach

11:00 - 11:20 **Jelena Ostojić**
Detection and quantification of caffeine and theobromine with screen-printed boron-doped diamond electrode

11:20 - 11:40 Coffee Break

11:40 - 13:00

SESSION II: Extraction methods / Degradation studies

Chairmen: Jelena Ostojić and Tilen Šimenko Lalič

11:40 - 12:00 **Jasmina Mušović**
Extraction and separation of technology critical elements using Ionic liquids based and deep eutectic solvents based aqueous biphasic systems

12:00 - 12:20 **Edita Bjelić**
Extraction of bioactive compounds from biomass using hydrophobic deep eutectic solvents

12:20 - 12:40 **Szabolcs Bognár**
Eco-inspired removal of agricultural herbicide tembotrione in the presence of various plant based ZnO nanomaterials using renewable solar energy

12:40 - 13:00 **Dušica Jovanović**
Application of green synthesized ZnO nanoparticles based on banana peel extract in the photocatalytic degradation of ciprofloxacin

13:00 - 13:40 **Lunch Break**

13:40 - 15:20

SESSION III: Electrochemical sensors

Chairmen: Josipa Dugeč and Abdelatif Laroui

13:40 - 14:00

Olha Sarakhman

Biomass use and its implications for sensor development

14:00 - 14:20

Marija Kovačević

Optimization of Electrochemical Sensor for the Determination of Neonicotinoids

14:20 - 14:40

Miroslav Kováč

3D printed PLA-carbon electrodes activated by atmospheric air plasma: Toward improved performance in electrochemical sensing

14:40 - 15:00

Gylxhane Kastrati

Advancing Protein Kinase Studies: Immobilization and Sensor Development

15:00 - 15:20

Alnilan Lobato

Comparison of gelatin- and polyaniline-based sensors for impedimetric detection of SARS-CoV-2 infection on screen-printed carbon electrodes

15:20 - 15:40

Coffee Break

15:40 - 17:00

SESSION IV: Chromatographic and optical methods

Chairmen: Špela Pok and Milinko Perić

15:40 - 16:00

Tilen Šimenko Lalič

Development of gas chromatographic-tandem mass spectrometric method for the determination of alkylphenols in aqueous samples

16:00 - 16:20

Tamara Pócsová

Study of Parameters of Microextraction by Packed Sorbent of Nitro Compounds in Water Samples

16:20 - 16:40

Ana Šijanec

Determination of artemisinin in micellized formulation

16:40 - 17:00

Antea Hrepić

Investigating Crater Geometry and Empirical Modeling for Enhanced Laser Ablation Inductively Coupled Plasma Mass Spectrometry Analysis

from 19:00

Supervisors' dinner

'Mala Kolubara' restaurant (Ivankovacka 2, 11000 Belgrade)

Tuesday, June 27th, 2023

Location: University of Belgrade - Faculty of Chemistry, Studentski trg 12-16, 11000 Belgrade, Serbia

09:00 - 10:40

SESSION V: Environmental analysis

Chairmen: Dušica Jovanović and Szabolcs Bognár

- 09:00 - 09:20 **Gloria Zlatić**
Impact of *Artemisia annua L.* on microbiologically influenced corrosion of steel in a simulated marine environment
- 09:20 - 09:40 **Špela Pok**
Microplastics with adsorbed contaminants: Development of analytical methods for monitoring pollutants and their photodegradation products
- 09:40 - 10:00 **Milinko Perić**
Potential of $Ti_3C_2T_x$ in applications based on water purification
- 10:00 - 10:20 **Nevena Malinović**
The effect of selected biostimulators on the stability of the active components of fungicides based on mancozeb and metalaxyl
- 10:20 - 10:40 **Jelena Tomić**
Influence of the selected biostimulators on the prolonged action and stability of imidacloprid

10:40 - 11:00 Coffee Break

11:00 - 12:40

SESSION VI: Amperometric methods / Soft interfaces

Chairmen: Tijana Mutić and Nikola Turuntaš

- 11:00 - 11:20 **Sanja Mutić**
Amperometric determination of cholesterol using cholesterol oxidase immobilized on Pt,Ru-C nanocomposite and an ionic liquid-modified carbon paste electrode
- 11:20 - 11:40 **Marek Haššo**
A simple, high-throughput and portable electrochemical platform for rapid quantification of tannic acid in beverages by batch injection analysis with amperometric detection
- 11:40 - 12:00 **Josipa Dugeč**
The effects of the ionic strength of the supporting media on the electrochemical response: thin-layer phenomena of the gallic acid at the single-wall carbon nanotubes
- 12:00 - 12:20 **Abdelatif Laroui**
Electrochemical behavior of ionic and neutral surfactant at the polarized liquid-liquid interface
- 12:20 - 12:40 **Martina Zatloukalová**
Electrochemical Analysis of Interaction of Nitro-fatty Acids with POPC Lipid Membrane

12:40 - 13:20 Lunch Break

SESSION VII: Other methods	
<i>Chairmen: Ana Šijanec and Alnilan Lobato</i>	
13:20 - 15:00	
	Fouad Alloun
13:20 - 13:40	Ferrimagnetic behavior of the 3D phosphate $K_4CoFe_3P_5O_{20}$ with $T_c = 17K$: Synthesis, structural study, and optical properties
	Aicha Elaoui
13:40 - 14:00	Synthesis of Bi_2WO_6 Photocatalysts Using Surfactant-assisted Hydrothermal Method: Characterization and Photocatalytic Activity
	Ksenija Rutnik
14:00 - 14:20	Determination of changes in hop chemical composition under different storage conditions
	Leona Hofmeisterová
14:20 - 14:40	Identification of <i>Arcobacter spp.</i> using the PCR method with electrophoretic detection
	Andrijana Bilić
14:40 - 15:00	Understanding the interactions between nadolol and hydroxyl radical: A computational study
15:00 - 15:20	Coffee Break
15:20	Closing of YISAC 2023
from 19:00	Conference dinner 'Konoba Akustik' kafana (Cara Dušana 13, 11000 Belgrade)

Wednesday, June 28th, 2023

Location: University of Belgrade - Faculty of Chemistry, Studentski trg 12-16, 11000 Belgrade, Serbia

from 10:00 City tour - optional
