



YISAC 2026 PROGRAM

MONDAY, JUNE 29

- 17:00 REGISTRATION – Entrance Hall at Faculty of Chemical Technology, University of Pardubice, Studentská 573, Pardubice (building HA, 1st floor)
- 18:00 GET-TOGETHER PARTY – Entrance Hall (building HA, 1st floor)

TUESDAY, JUNE 30

- 8:00 REGISTRATION
- 9:00 OPENING CEREMONY – Lecture Hall C1 (building HA, 1st floor)

SESSION 1	Sensors I	Chairs: Tijana Mutić, Mitja Koderman
9:20	Andrej Kukuruzar <i>Development of an Electrochemical Sensor Based on Holmium Nickelate@MWCNT Composite for Diuron Detection</i>	
9:40	Weigeng Liu <i>Development of an Electrochemical Genosensor for Sensitive and Selective Detection of Citrus Bark Cracking Viroid (CBCVd)</i>	
10:00	Tia Kralj <i>Label-Free $Ti_3C_2T_x$ MXene-Based Impedimetric Immunosensor for Sensitive Interleukin-6 Detection</i>	
10:20	Ana Kuprešanin <i>A Fast, Reliable, and Reproducible Electrochemical Sensor for NPK Nutrient Monitoring</i>	

10:40 – 11:00 COFFEE BREAK

SESSION 2	Electrochemistry I	Chairs: Maryia M. Dzemidovich, Jakub Vobořil
11:00	Ivan Konjević <i>Electrochemical Impedance Spectroscopy for Investigating Surface Tension Changes and Surfactant Charge Differentiation at a Mercury Electrode</i>	
11:20	Dominik Novák <i>Electrochemical Detection of Ergosterol as a Biomarker of Fungal Contamination in Food Using Screen-Printed Electrodes</i>	

11:40 **Jelena Tomić**

Voltammetric Determination of Lead Using Graphene / Ionic Liquid / Nafion / Bismuth-Modified Carbon Electrodes: Method Development and Analytical Characterization

12:00 – 14:00 LUNCH

SESSION 3	Other Methods I	Chairs: Karolína Lang, Daniel Šlemar
14:00	Tina Carola Spirk <i>Cell History Effects on Fluoride Release and Electrolyte Degradation during Low-Temperature LIB Recycling</i>	
14:20	Neža Kralj <i>Multi-Method Investigation of Dark Brown Carbon in Urban Aerosols</i>	
14:40	Julia Truschner <i>Distinct Arsenic Speciation Patterns in Mushrooms: Analytical Strategies for Complex Matrices</i>	
15:00	Ondřej Morávek <i>Stability of Monoclonal Antibody-Based Therapeutics in Hospital Pneumatic Tube Transport System</i>	

15:20 – 15:40 COFFEE BREAK

SESSION 4	Mass Spectrometry	Chairs: Neža Kralj, Dominik Novák
15:40	Martina Piroutková <i>Chemometric Optimization of Q-ICP-MS for Lead Isotope Analysis in Biological Samples</i>	
16:00	Franziska Peer <i>Development of an ICP-MS/MS Approach for Fluorine Analysis: Comparative Evaluation of the [BaF]⁺ and [SrF]⁺ Methods</i>	

19:00 SUPERVISORS DINNER - GARDEN Restaurant & Pension, U Stadionu 2030

WEDNESDAY, JULY 1

SESSION 5	Sensors II	Chairs: Amanda Leda, Aleksandar Mijajlović
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9:00 **Mitja Koderman**

Advanced Nanobody-Based Electrochemical Biosensor for Sensitive Detection of Prostate Cancer Biomarker

9:20 **Slavica Mitrović**

Electrochemical Performance of Zirconium-Based UiO-67 Composite toward Heavy Metal Sensing in Water

9:40 **Ivan Mitevski**

Nanomaterial-Based Electrochemical Genosensor with Enzyme-Assisted Recycling Amplification for Pathogen Identification

10:00 **Tijana Mutić**

Electrochemistry at the Fingertips: Wearable Glove-Based Pr₂O₃/MWCNT Nanocomposite Electrode for Carbendazim Detection

10:20 – 10:40 COFFEE BREAK

SESSION 6	Other Methods II	Chairs: Tia Kralj, Ondřej Morávek
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10:40 **Kristýna Dvořáková**

Preliminary Study of Enzymatic Epoxidation of Selected Unsaturated Compounds using Microbial Lipases

11:00 **Daniel Šlemar**

Degradation of Lignosulfonate-Based Superplasticizer Under Simulated Deep Repository Conditions: An Analytical Study

11:20 **Karolína Lang**

Functionalized Crosslinked Hyaluronic Acid Nanoparticles for Cellular Imaging

11:40 **Jakub Vagunda**

Comprehensive Characterization of LiAl Mixed Oxides and Analysis of Acetaldehyde Self-Condensation Products

12:00 – 14:00 LUNCH

SESSION 7 Electrochemistry II Chairs: **Ana Kuprešanin, Ivan Konjević**

- 14:00 **Jakub Vobořil**
Voltammetric Determination of Two Structurally Related Fungicides Folpet and Captan on Carbon-Based Electrodes
- 14:20 **Maryia-Mazhena Dzemidovich**
Thin Organic Film Electrodes for Vincristine Analysis: From Interfacial Kinetics to Indirect Quantification
- 14:40 **Volha Filimonava**
Electrochemical Determination of Antidepressant Citalopram Using Boron-Doped Diamond Electrodes
- 15:00 **Sandra Chmiel**
Comparative Voltammetric Analysis of Forchlorfenuron using Edge Plane Pyrolytic Graphite and Boron-Doped Diamond Electrodes

15:20 – 15:40 COFFEE BREAK

SESSION 8 Electrochemistry III Chairs: **Weigeng Liu, Andrej Kukuruzar**

- 15:40 **Oleksandra Labzova**
Novel Analytical Approach Integrating Hollow Fiber Liquid-Phase Microextraction with Square Wave Voltammetry for the Sensitive and Selective Determination of Formaldehyde in Wood
- 16:00 **Aleksandar Mijajlović**
Development of an Impedimetric Aptasensor Based on MXene/MWCNT-COOH Functionalized SPCE for Bacillus cereus Spore Detection
- 16:20 **Amanda Leda**
Nanostructured Materials Based on Multi-Walled Carbon Nanotubes and Pyrene Derivatives for Electroanalytical and Biosensing Applications

19:00 CONFERENCE DINNER - Na Staré Rybárně, Bulharská 1784.

THURSDAY, JULY 2

10:00 OPTIONAL EXCURSION - Sightseeing tour to old city of Pardubice and chateau

