

The conference takes place from May 25th to May 29th, 2026, in Hotel Bellevue in Jetřichovice. Registration and accommodation start on May 25th, 2026, from 16.00 in the hotel. Boarding and accommodation are provided at the conference venue.

SCIENTIFIC GUARANTOR

Prof. Dr. Ing. Tomáš Navrátil
J. Heyrovsky Institute of Physical Chemistry
of the Czech Academy of Sciences, Prague



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PROGRAM OF THE INTERNATIONAL CONFERENCE



45th MODERN ELECTROCHEMICAL METHODS

May 25th - May 29th, 2026
Jetřichovice (district Děčín)
Czech Republic

The conference is held under the auspices of
Prof. Martin Hof, Director of the J. Heyrovský Institute of Physical Chemistry of the Czech Academy of Sciences
Prof. Jiří Zima, Rector of Charles University
Prof. Milan Pospíšil, Rector of the University of Chemistry and Technology Prague

CONFERENCE PROGRAM

MONDAY, May 25th

- 16.00 REGISTRATION AND ACCOMMODATION OF THE PARTICIPANTS
17.00 WELCOME MESSAGE TO CONFERENCE PARTICIPANTS
18.00 DINNER

TUESDAY, MAY 26th

- 8.00 BREAKFAST
9.00 OPENING SESSION

9.40 – 10.20 BLOCK 1 – Chairperson T. Navrátil

- 9⁴⁰- 10⁰⁰ **Methodologies of Green Analytical Chemistry Evaluation**
R. Šelešovská and L. Janíková
- 10⁰⁰- 10²⁰ **Use of Analytical Chemistry at the Dukovany Nuclear Power Plant**
P. Pořícký
- 10.20 – 10.40 COFFEE BREAK

10.40 – 12.00 BLOCK 2 – Chairperson D. Novák

- 10⁴⁰-11⁰⁰ **Under-Operando Spectroelectrochemical Visualization of pH Changes Electrogenerated in the Pulsed Electric Field**
V. Kolivoška, E. Vaněčková, T. Sebechlebská, and G. Mydla
- 11⁰⁰-11²⁰ **Perforated Microporous Layers Suppress Flooding in Gas Diffusion Electrodes for High-Current-Density CO₂ Electroreduction**
V. Hrdlička, L. Dostálková, R. Pilař, P. Sazama, G. Sádovská, U. Khalilullah, V. Petránková, M. Bouša, E. Vaněčková, and V. Kolivoška
- 11²⁰-11⁴⁰ **Monitoring Water Temperature during Pulsed Electric Field Experiments by NIR Spectroscopy**
G. Mydla, E. Vaněčková, T. Sebechlebská, and V. Kolivoška
- 11⁴⁰-12⁰⁰ **Integrating Chemical Equilibria into Models for Cyclic Voltammetry and Pulsed Electric Field**
G. Mydla, V. Kolivoška, and T. Sebechlebská

- 12.00 – 14.00 LUNCH

14.00 – 15.20 BLOCK 3 – Chairperson V. Filimonava

- 14⁰⁰-14²⁰ **Thermoelectric Properties of Single-Molecule Junctions Containing Anthracene Moiety**
M. Hromadová, F. Vavrek, J. Šebera, M. Valášek, and G. Mészáros
- 14²⁰-14⁴⁰ **Voltammetric Behaviour of Nitro-Fatty Acids in Aprotic Medium**
A. Liška, J. Vacek, J. Klíma, and J. Ludvík
- 14⁴⁰-15⁰⁰ **Reaction Mechanisms of Psychoactive 2 (((4 ethyl 2,5 dimethoxyphenethyl)amino)methyl)phenol**
R. Sokolová, M. Beneš, and I. Degano
- 15⁰⁰-15²⁰ **Aptamer-Based Electrochemical Biosensor for the Sensitive Detection of High-Molecular-Weight Protein**
P. Simonidesová, T. Holka, A. Poturnayová, B. Lakatoš, and M. Gál

- 15.20 – 15.40 COFFEE BREAK

15.40 - 17.40 BLOCK 4 – Chairperson G. Mydla

- 15⁴⁰-16⁰⁰ **Voltammetric and Flow Amperometric Detection of Antidepressant Citalopram**
V. Filimonava, K. Škurková, J. Vobořil, O. Matvieiev, and R. Šelešovská
- 16⁰⁰-16²⁰ **Methylene Blue on 3D-Printed Electrodes: Simultaneous Electrochemical and Fluorescence Investigation**
M. Hurajtová, J. Krajč, G. Mydla, J. Bujdák, and T. Sebechlebská
- 16²⁰-16⁴⁰ **Label-Free Detection of Exosomes Using Electrochemical Impedance Spectroscopy**
D. Novák, O. Morávek, M. Vojs, Z. Bílková, and L. Korecká
- 16⁴⁰-17⁰⁰ **Portable Sampling Device with Electrochemical Detection**
V. Hrdlička, T. Navrátil, V. Kolivoška, and E. Vaněčková
- 17⁰⁰-17⁴⁰ **Get to Know METROHM**
P. Barath and M. Stočes

- 18.00 DINNER

WEDNESDAY, May 27th**8.00** BREAKFAST**9.00 – 10.15 BLOCK 5 – Chairperson K. Schwarzová**9⁰⁰- 9²⁰ **Electroanalysis of urine samples: Fact or Fiction?**
*V. Hrdlička*9²⁰- 9⁴⁰ **Integrated Hollow-Fiber Microextraction and Square-Wave Voltammetry for Formaldehyde Monitoring in Wood Emissions**
*O. Labzova, V. Hrdlička, T. Navrátil, R. Šelešovská, R. M. Ramos, and J. A. Rodrigues*9¹⁰-10⁰⁰ **Hydrogen vs. Oxygen Terminated Boron-Doped Diamond: Controlled Electrografting of 4-Nitrobenzenediazonium Salt for Enzymatic Biosensor**
*A. Dube, P. Čambal, K. Hubčuková, J. Poláková, and K. Schwarzová-Pecková*10⁰⁰-10²⁰ **Development of (Electro)Analytical Methods for Monitoring of Electrochemical Degradation of Levamisole on BDD Anodes**
*S. Prakash, J. Fischer, A. Taylor, and K. Schwarzová-Pecková*10²⁰-10⁴⁰ **Carbon Electrode Modified with Ruthenium Red as a Promising Hydrogen Peroxide Sensor**
*S. Gupta and J. Filip***10.40 – 11.00** COFFEE BREAK**11.00-12.00 BLOCK 6 – Chairperson M. Hurajtová**11⁰⁰-11²⁰ **Long-Term Stability of Linear Voltammetric Measurements**
*M. Vaško, A. Vojs Staňová, and R. Bodor*11²⁰-11⁴⁰ **The Effect of Grain Size on Nanostructuring and Capacitive Characteristics of Boron-Doped Diamond Electrodes**
*M. Marton, M. Nunhardt, P. Michniak, M. Pifko, and M. Vojs*11⁴⁰-12⁰⁰ **Influence of Boron Concentration on the Corrosion Stability of Boron-Doped Diamond Anodes**
*M. Behul, M. Marton, P. Michniak, V. Řeháček, and M. Vojs***12.00** LUNCH**13.00** TRIP**19.00** DINNER**THURSDAY, MAY 28th****8.00** BREAKFAST**9.00 – 10.15 BLOCK 7– Chairperson R. Bodor**9⁰⁰- 9²⁰ **Development of Electrochemical Reactors for the Study of Degradation Processes**
*J. Fischer, L. Míka, P. Lochyński, A. Taylor, and K. Schwarzová-Pecková*9²⁰- 9⁴⁰ **Limitations of Batch Electrochemical Cells in Mineralization of Pesticides**
*K. Michnová, J. Fischer, S. Prakash, T. Křížek, A. Taylor, P. Ashcheulov, and K. Schwarzová-Pecková*9⁴⁰- 10⁰⁰ **Boron-Doped Diamond Electrodes for Electrochemical Degradation of Selected Herbicides and Fungicides**
*A. Vojs Staňová, L. Burdová, O. Matvieiev, R. Šelešovská, M. Marton, and M. Vojs*10⁰⁰-10²⁰ **Development of a Miniaturized Three-Electrode Electrochemical System with a Boron-Doped Diamond Working Electrode**
*P. Michniak, M. Marton, M. Behul, M. Hatala, and M. Vojs***10.20 – 10.40** COFFEE BREAK**10.40 – 12.00 BLOCK 8 – Chairperson J. Vobořil**10⁴⁵-11⁰⁰ **Boron-doped Diamond Electrode as a Unique Tool for the Application of Elimination Voltammetry**
*L. Trnková, M. Marton, M. Vojs, A. Liška, V. Bičák, and J. Ludvík*11⁰⁰-11¹⁵ **Characterization of Exfoliated Graphitic Carbon Nitride by Electrochemical Impedance Spectroscopy**
*A. Mijajlović, T. Mutić, P. Michniak, D. Stanković, L. Schreiber, A. Vojs Staňová, and M. Vojs*11¹⁵-11³⁰ **Electroanalysis of Methylxanthine Alkaloids**
*J. Ostojčić, D. Stanković, and R. Metelka*11³⁰-11⁴⁵ **(Spectro)Electrochemical Study of Flavin Derivatives**
*L. Šimková, A. Liška, K. Lušpai, R. Cibulka, and J. Ludvík***12.00** LUNCH

14.00 – 15.15 BLOCK 9 Chairperson *M. Behul*

- 14⁰⁰-14²⁰ **Voltammetry of DOPA at a Boron-Doped Diamond Electrode in a Flow-Through Electrochemical Cell**
M. Vaško, A. Kadlec, A. Vojs Staňová, M. Vojs, and R. Bodor
- 14²⁰-14⁴⁰ **Sensitive Voltammetric Detection of Thiophthalimide Fungicides Captan and Folpet in Non-Aqueous Media Using a Boron-Doped Diamond Electrode**
J. Vobořil, L. Janíková, O. Matvieiev, and R. Šelešovská
- 14⁴⁰-15⁰⁰ **Optimisation of Extractive Accumulation of Sudan I Dye into Glassy Carbon Paste**
E. Strnadová, I. Švancara, and M. Sýs
- 15⁰⁰-15²⁰ **Influence of the Number of Data on the Interval Estimation of Position and Dispersion Parameters**
P. Pořický
- 15²⁰-15⁴⁰ **Electrochemical Determination of Citrulline**
T. Mikysek and P. Štefanská

15.40 – 16.00 COFFEE BREAK

15.45 – 16.30 BLOCK 10 Chairperson *T. Navrátil*

- 16⁰⁰-16²⁰ **International Society of Electrochemistry**
T. Navrátil
- 16²⁰-16⁴⁰ **Chemistry Europe**
T. Navrátil
- 16²⁰-16⁴⁰ **Czech Chemical Society**
T. Navrátil

18.00 DINNER

FRIDAY, MAY 29th

9.00 – 11.00 BLOCK 11 Chairperson *T. Navrátil*

- 8.00** BREAKFAST
- 9⁰⁰ – 9²⁰ **Simultaneous EPR/UV-VIS-NIR Spectroelectrochemistry as a Powerful Tool in Molecular Electrochemistry**
K. Lušpai and L. Šimková
- 9²⁰ - 9⁴⁰ **How Can Elimination Voltammetry Help in the Study of Electrode Processes**
L. Trnková and T. Navrátil

9⁴⁰- 10⁰⁰ **Amanita Phalloides Intoxication and Its Treatment**
T. Navrátil, V. Hrdlička, D. Pelclová, and J. Skopalová

10⁰⁰- 11⁰⁰ **Discussion/Commercial Messages**

11.00 CLOSING CEREMONY

11.15 LUNCH

Presentation 15 min. + Discussion 5 min.

