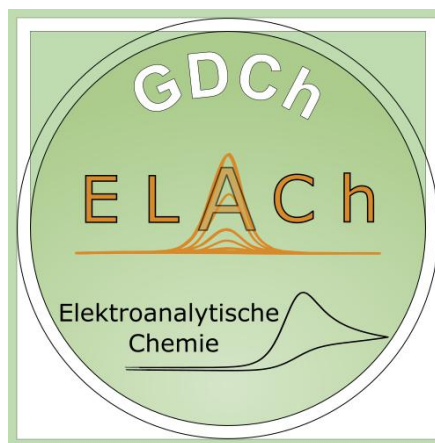


# Seminar Program

## 2<sup>nd</sup> Cross-Border Seminar on Electroanalytical Chemistry (CBSEC)

České Budějovice, Czech Republic

April 10–12, 2019



Bayerisch-Tschechische  
Hochschulagentur  
Česko-bavorská  
vysokoškolská agentura



gefördert durch

Bayerisches Staatsministerium der Finanzen,  
für Landesentwicklung und Heimat



Supported by



Bayerisch-Tschechische  
Hochschulagentur



Česko-bavorská  
vysokoškolská agentura

# Program

WEDNESDAY, APRIL 10

- 12:00**      **Registration + welcome snack**
- 14:00**      **Introduction**
- 14:15**      **Opening lecture: Electroanalytical measurements with solid electrolyte sensors, historical development and actual challenges**  
Jens Zosel, Waldheim/DE
- 

## Session 1 (chairperson: Timo Raith)

- 15:00**      **L1 Use of cyclic voltammetry for selective solid electrolyte sensors**  
Anastasiya Ruchets, Waldheim/DE
- 15:20**      **L2 Effects of voltage variations in pulsed polarization measurements**  
Nils Donker, Bayreuth/DE
- 15:40**      **Coffee break**
- 

## Session 2 (chairperson: Thomas Herl)

- 16:00**      **L3 Development and characterization of a highly sensitive solid electrolyte hydrogen sensor system**  
Pramit Sood, Waldheim/DE
- 16:20**      **L4 Voltammetry of Sudan I at pyrolytic graphite and boron doped diamond electrodes in aqueous media**  
Anna Ondráčková, Brno/CZ
- 16:40**      **L5 Electrochemical behaviour of selected G4 ligands at hanging mercury drop electrode**  
Daniel Dobrovodský, Brno/CZ
- 17:30**      **Dinner in university canteen**
- 19:00**      **Get together party at the seminar venue**

THURSDAY, APRIL 11

## Session 3 (chairperson: Jan Klouda)

- 09:00**      **Presentation of Metrohm, Czech Republic**  
Peter Barath, Metrohm CR

**09:20 L6 Preparation of metal film electrodes via PVD and their voltammetric performance**

Julia Gonciarczyk, Cracow/PL

**09:40 L7 Design and application of bi-band silver microelectrode**

Katarzyna Jedlińska, Cracow/PL

**10:00 Coffee break**

---

**Session 4** (chairperson: Simona Baluchová)

**10:20 L8 Online electrochemistry–capillary electrophoresis–mass spectrometry in a miniaturized injection cell**

Nicole Heigl, Regensburg/DE

**10:40 L9 Hyphenation of electrochemistry–capillary electrophoresis–mass spectrometry and its application to the investigation of nucleobase oxidation**

Thomas Herl, Regensburg/DE

**11:00 L10 Determination of neonicotinoids by non-aqueous capillary electrophoresis with a new dual detection concept (MS-AD)**

Daniel Boehm, Regensburg/DE

**11:20 Lunch in university canteen**

---

**Session 5** (chairperson: Stefan Wert)

**14:00 L11 Electrode materials based on structured boron-doped diamond: Characterization and application for electroanalysis**

Simona Baluchová, Prague/CZ

**14:20 L12 Determination of homovanillic and vanillylmandelic acid using flow injection analysis with amperometric detection at boron doped diamond electrode**

Anna Němečková, Prague/CZ

**14:40 L13 Amperometric detection of anthraquinone-2-sulfonate at a dual glassy carbon electrode**

Štěpánka Skalová, Prague/CZ

**15:00 Coffee break**

---

**Session 6** (chairperson: Daniel Dobrovodský)

**15:20 L14 Is penconazole electrochemically active?**

Ishak Kovač, Prague/CZ

- 15:40**            **L15 Development of electroanalytical methods for detection of cholesterol and its precursor 7-dehydrocholesterol**  
Lenka Benešová, Prague/CZ
- 16:00**            **L16 Voltammetric determination of Smith-Lemli-Opitz syndrome biomarker 7-dehydrocholesterol**  
Jan Klouda, Prague/CZ
- 17:30**            **Dinner in university canteen**
- 19:00**            **Social evening in the city center**

**FRIDAY, APRIL 12**

**Session 7** (chairperson: Andreas Schmidberger)

- 9:00**            **L17 Inhibiting effects of 1,2,4-triazole derivatives on TsdA from *Campylobacter jejuni***  
Zuzana Bábková, Brno/CZ
- 9:20**            **L18 Cyclic voltammetry of biologically active hydroxynaphthalene-carboxanilides and its relationship to substituent constants**  
Július Gajdár, Prague/CZ
- 9:40**            **L19 A simple technique for the fabrication of ring ultramicroelectrode pipette tips for combined scanning electrochemical microscopy and scanning ion conductance microscopy**  
Stefan Wert, Regensburg/DE
- 10:00**            **Coffee break**

---

**Session 8** (chairperson: Katarzyna Jedlińska)

- 10:20**            **L20 Impacts of forced convection generated via high precision stirring on scanning electrochemical microscopy experiments in feedback mode**  
Timo Raith, Regensburg/DE
- 10:40**            **Closing lecture: Boron-doped diamond macro/microelectrodes for dopamine sensing**  
Mariola Brycht, Prague/CZ
- 11:10**            **Closing ceremony & award for best presentation**
- 11:30**            **Snacks**

# Important to Know

## **Addresses:**

### *Seminar Venue:*

Biology Centre of the Czech Academy of Sciences  
Branišovská 1160/31, 37005 České Budějovice

### *Accommodation:*

Student Dormitory (K2)  
Studentská 800/15, 37005 České Budějovice

### *Meals:*

University Canteen  
Studentská 797, 37005 České Budějovice

Breakfast: 7:30–8:30

Lunch: 11:30–14:00

Dinner: 17:30–19:00

## **WLAN:**

Eduroam WLAN is available at the seminar venue.

## **Smoking:**

Please be aware that smoking is prohibited at the seminar venue as well as in the buildings of the student dormitory and the university canteen.