

Modern Electroanalytical Methods 2009

December 9–13, 2009, Prague, The Czech Republic

Programme

of the international conference dedicated to the memory
of professor Jaroslav Heyrovský on the occasion
of 50th anniversary of Nobel prize for polarography

GENERAL INFORMATION

The conference is held at the Institute of Chemistry, Faculty of Science, Charles University in Prague (Hlavova 8, 128 43 Prague 2).

The **registration** is located at the landing of main staircase, across the entrance to the building. It will be open according the following schedule:

- Wednesday, December 9, 2009 from 15.00 to 20.00
- Thursday, December 10, 2009 from 8.00 to 16.00

Later, please, visit the conference office.

The **conference office** is accessible in room 124 on the first floor and it is open from 8.00 to 16.00 each day.

The **oral presentations** are held in the main lecture hall (Brauner's Lecture Theatre). Oral presentations are 20 minutes including discussion and speakers are asked to download their Power Point presentation on the local computer in the lecture hall before the start of the session.

The **poster boards** are situated in the corridor on the first floor. One display board will be provided for each poster. The authors must use board with the label indicating their poster number (for poster numbering see *Proceedings*). The posters number PP01–PP28 should be put up on Thursday, December 10, till 16.00 and removed at 19.00. The posters number PP29–PP56 should be put up on Friday, December 11, till 16.00 and removed at 19.00. The presenting author/s is/are requested to be near their poster during poster session.

The **coffee breaks** are held in the corridor on the first floor nearby poster boards.

The **lunches** are served at students' club Chladič (room 016 on the basement) from 12.45 to 14.00.

The **conference dinner** will be held at the restaurant Mánes (Masarykovo nábřeží 250, Prague 1; see the plan at the last page of the programme) on Thursday, December 10, from 20.00 to 23.00.

On Saturday, December 12, there will be time for **social programme**. There are three possibilities for spending it:

- (i) Prague sightseeing by yourself.
- (ii) Guided visit of an exhibition "The Story of the Mercury Drop", which will introduce, by means of photographs, films, literary documents and other exhibits (*e.g.* polarographic instruments) the life story of the Jaroslav Heyrovský. The exhibition is held at Charles University rectorate – Carolinum, Ovocný trh 5, Prague 1; see the plan at the last page of the programme.
- (iii) Guided visit of J. Heyrovsky Grave at Vyšehrad cemetery (the cemetery is located near the Faculty; see the plan at the last page of the programme).

The conferrees could use the **WIFI connection** to Internet during the conference. The name of the wireless network, and your username as well as password are enclosed in your conference materials.

WEDNESDAY, DECEMBER 9

15.00–20.00 **Registration**

17.00–20.00 **Get Together Cocktail** (*students' club Chladič*)

THURSDAY, DECEMBER 10

8.00–16.00 **Registration**

9.00–9.20 **Opening Ceremony**

Oral session 1, chairperson: Prof. Alexander Kuhn

9.20–9.40 Jindra J.: *10th December 1959 – Jaroslav Heyrovsky and Nobel Prize* (OP13)

9.40–10.00 Galceran J.: *Intermetallic compounds Cu_xZn studied with AGNES* (OP08)

10.00–10.20 Kalvoda R.: *Some meditation on polarography* (OP14)

10.20–10.40 Stojek Z.: *Electrodes modified with polymer-metal nano- and micro-composites* (OP34)

10.40–11.00 **Coffee Break**

Oral session 2, chairperson: Prof. José M. Pingarrón

11.00–11.20 O' Mahony A. M.: *The electrochemistry of hydrogen sulphide in room temperature ionic liquids (RTILs)* (OP27)

11.20–11.40 Heyrovský M.: *Voltammetric behaviour of aluminium powder in aqueous dispersion* (OP11)

11.40–12.00 Karyakin A. A.: *Liquid|liquid interface in electrochemical detection of bio-molecules* (OP15)

12.00–12.20 Yang X.: *A study of the fabrication and electrocatalytic activity of carbon based nanomaterials* (OP42)

12.20–12.40 Vagin M. Yu.: *Soft interfaces for DNA hybridization detection* (OP40)

12.40–14.00 **Lunch**

Oral session 3, chairperson: Prof. Ján Labuda

- 14.00–14.20 Lubert K.-H.: *History of electroanalytical methods* (OP18)
- 14.20–14.40 Matysik F.-M.: *Electrochemically assisted injection for capillary electrophoresis–mass spectrometry studies of neutral analytes* (OP46)
- 14.40–15.00 Zheludkevich M. L.: *Combination of potentiometric and amperometric microprobes to monitor the electrochemical activities in confined micro-defects of coated metals* (OP50)
- 15.00–15.20 Timofeeva D. V.: *Stripping coulometry determination of lead and mercury at screen-printed electrodes* (OP36)

15.20–15.40 **Coffee Break****Oral session 4**, chairperson: Prof. Jiří Barek

- 15.40–16.00 Dmitrieva E.: *Modern electrochemical techniques for the analysis of reaction mechanisms in conducting polymers* (OP47)
- 16.00–16.20 Pingarrón J. M.: *Electrochemical biosensing designs for ultrasensitive detection of bacteria* (OP29)

16.40–18.20 **Poster Session 1**

Posters PP01–PP28.

20.00–23.00 **Conference Dinner**

FRIDAY, DECEMBER 11

8.00–16.00 **Registration****Oral session 5**, chairperson: Prof. Frank M. Matysik

- 9.00–9.20 Čosović B.: *Electrochemical adsorption study of natural organic matter in marine and freshwater aquatic systems. A plea for use of mercury for scientific purposes.* (OP03)
- 9.20–9.40 Brett Ch.: *Trends in electrochemical techniques for surface-modified electrochemical sensors and biosensors* (OP02)
- 9.40–10.00 Šestáková I.: *The electrochemical assessment of heavy metals mobility in the rhizosphere* (OP30)
- 10.00–10.20 Sokolová R.: *The importance of polarography in studies of the electron transfer coupled with the cleavage of carbon-halogen bond* (OP32)
- 10.20–10.40 Etienne M.: *Mesoporous (organo)silica thin films for electroanalysis* (OP06)

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Wednesday 9 December	Thursday 10 December	Friday 11 December	Saturday 12 December	Sunday 13 December
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Registration and conference office is opened from 8.30 to 16.00 each day.

9.00-9.20		Opening ceremony	Cosovic (OP03)	Navratil (OP25)	Tomcik (OP38)
9.20-9.40		Jindra (OP13)	Brett (OP02)	Fojta (OP07)	Barek (OP01)
9.40-10.00		Galceran (OP08)	Sestakova (OP30)	Mendkovich (OP22)	Vetterl (OP41)
10.00-10.20		Kalvoda (OP14)	Sokolova (OP32)	Tasdemir (OP35)	Grygar (OP09)
10.20-10.40		Stojek (OP34)	Etienne (OP06)	Moretto (OP24)	Mocak (OP23)
10.40-11.00		Coffee break	Coffee break	Coffee break	Coffee break
11.00-11.20		O Mahony (OP27)	Lukaszewski (OP20)	Sobkowiak (OP31)	Hromadova (OP12)
11.20-11.40		Heyrovsky (OP11)	Wang Erkang (OP05)	Kuhn (OP16)	Zima (OP43)
11.40-12.00		Karyakin (OP15)	Dong (OP04)	Labuda (OP17)	Qureshi (OP52)
12.00-12.20		Yang (OP42)	Ludvik (OP19)	Stoica (OP33)	Closing ceremony
12.20-12.40		Vagin (OP40)	Toghill (OP37)	Tsierkezos (OP39)	
12.40-13.00		Lunch	Lunch	Lunch	
13.00-13.20					
13.20-13.40					
13.40-14.00					
14.00-14.20		Lubert (OP18)	Heyrovska (OP10)	Social programme: 1. Prague Sightseeing 2. Visit an exhibition „The Story of the Mercury Drop” 3. Visit of J. Heyrovsky Grave	
14.20-14.40		Matysik (OP46)	Palecek (OP28)		
14.40-15.00		Zheludkevich (OP50)	Ivaska (OP44)		
15.00-15.20		Timofeeva (OP36)	Janata (OP51)		
15.20-15.40		Coffee break	Coffee break		
15.40-16.00	<i>Registration is opened from 15.00 to 20.00</i>	Dmitrieva (OP47)	van Staden RI (OP48)		
16.00-16.20		Pingarron (OP29)	van Staden JF (OP49)		
16.20-16.40			Manea (OP21)		
16.40-17.00		Poster session 1	Poster session 2		
17.00-17.20	Get together cocktail 17.00–20.00 Institute of Chemistry students' club Chladič	PP01–PP28	PP29–PP56		
17.20-17.40					
17.40-18.00					
18.00-18.20					
		Conference dinner 20.00-23.00 restaurant Mánes			

10.40–11.00 Coffee Break

Oral session 6, chairperson: Dr. Michael Heyrovský

- 11.00–11.20 Lukaszewski Z.: *Flow injection differential pulse – anodic stripping voltammetry as a tool for thallium monitoring in the environment* (OP20)
- 11.20–11.40 Wang E.: *Solid-state tris(2,2'-bipyridyl) ruthenium electrochemiluminescent detector* (OP05)
- 11.40–12.00 Dong S.: *Green routes for controlled release gene from multilayer films* (OP04)
- 12.00–12.20 Ludvík J.: *Use of LFER for investigations of intramolecular interactions in Fischer aminocarbene complexes* (OP19)
- 12.20–12.40 Toghill K.: *Metal nanoparticle modified boron doped diamond for use in electroanalysis* (OP37)

12.40–14.00 Lunch

Oral session 7, chairperson: Prof. Arkady A. Karyakin

- 14.00–14.20 Heyrovská R.: *Absolute potentials of standard reference electrodes at 25 °C* (OP10)
- 14.20–14.40 Paleček E.: *From d. c. polarographic presodium wave of proteins to electrochemistry of biomacromolecules* (OP28)
- 14.40–15.00 Ivaska A.: *Preparation, characterization and application of chitosan stabilized graphene composite as electrode material in electrochemical determinations* (OP44)
- 15.00–15.20 Janata J.: *Potentiometry in gas phase* (OP51)

15.20–15.40 Coffee Break

Oral session 8, chairperson: Assoc. Prof. Miroslav Fojta

- 15.40–16.00 van Staden R.-I.: *Monocrystalline diamond paste based sensors and microsensors* (OP48)
- 16.00–16.20 van Staden J. F.: *Sensors and biosensors for multicomponent analysis using flow systems* (OP49)
- 16.20–16.40 Manea F.: *Simultaneous electrochemical determination of nitrate and nitrite in aqueous solution using silver doped zeolite-expanded graphite-epoxy electrode* (OP21)

16.40–18.20 Poster Session 2

Posters PP29–PP56.

SATURDAY, DECEMBER 12

Oral session 9, chairperson: Prof. Christopher M. A. Brett

- 9.00–9.20 Navrátil T.: *Supported phospholipid bilayers, their formation and transport across them* (OP25)
- 9.20–9.40 Fojta M.: *Mercury electrodes as unique tools for nucleic acids studies* (OP07)
- 9.40–10.00 Mendkovich A. S.: *Complex study of dinitrobenzenes electroreduction mechanism by electroanalytical and computational methods* (OP22)
- 10.00–10.20 Taşdemir İ. H.: *Development of a square-wave cathodic adsorptive stripping voltammetric method to assay of Telmisartan in pharmaceutical preparations and biological samples* (OP35)
- 10.20–10.40 Moretto L. M.: *Langmuir-Blodgett films of Nafion: The role of the thin film in the electrochemiluminescence of Ru(bpy)₃²⁺* (OP24)

10.40–11.00 **Coffee Break**

Oral session 10, chairperson: Prof. Jacobus F. van Staden

- 11.00–11.20 Sobkowiak A.: *Electrochemical characterization of redox state of homogeneous catalysts* (OP31)
- 11.20–11.40 Kuhn A.: *Unusual microelectrodes for bioanalysis* (OP16)
- 11.40–12.00 Labuda J.: *Detection of in vitro damage to DNA using carbon electrodes in flow-through cell* (OP17)
- 12.00–12.20 Stoica A.-I.: *Coupling of screen-printed electrodes and magnetic beads for rapid and sensitive immunodetection of pollutants* (OP33)
- 12.20–12.40 Tsierkezos N. G.: *Electrochemistry on multi-walled carbon nanotube films* (OP39)

12.40–14.00 **Lunch**

afternoon **Social Programme**

SUNDAY, DECEMBER 13

Oral session 11, chairperson: Prof. Jiří Zima

- 9.00–9.20 Tomčík P.: *Reactive carbon paste electrode for the detection of biologically important species* (OP38)
- 9.20–9.40 Barek J.: *Non-traditional electrode materials for environmental electroanalysis* (OP01)
- 9.40–10.00 Vetterl V.: *Discovery of two-dimensional condensation of nucleic acids components at the mercury electrodes – 40 years' history* (OP41)
- 10.00–10.20 Grygar T.: *Speciation of Fe(III) and V(V) in supported catalysts by voltammetry of microparticles* (OP09)
- 10.20–10.40 Mocak J.: *Accurate calculation of voltammetric current by infinite series solution* (OP23)

10.40–11.00 **Coffee Break****Oral session 12**, chairperson: Prof. Ari U. Ivaska

- 11.00–11.20 Hromadová M.: *Extended viologens – their electrochemical and adsorption properties on mercury* (OP12)
- 11.20–12.40 Zima J.: *Carbon pastes in analysis of organic compounds* (OP43)
- 11.40–12.00 Qureshi M. S.: *Voltammetric determination of aliphatic phthalate esters on hanging mercury drop electrode and meniscus silver solid amalgam electrode. A comparison study.* (OP52)

12.00–12.20 **Closing ceremony**

Carolinum

Karlův most

Univerzita Karlova v Praze

Mánes

200 m

Vyšehrad

Conference site

