

Programme

The conference is held at the Institute of Chemistry, Faculty of Science, Charles University in Prague (Hlavova 8, 128 43 Prague 2) in the main lecture hall (Brauner's Lecture Theatre). Oral presentations are fifteen 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.

Monday, September 22, 2014

9:00–9:30 **Registration of participants**

9:30–9:45 **Opening ceremony, welcoming address**

Session 1 • chairperson: Tereza Tůmová

- 9:45–10:00 Ston M.: *Pressure modulator development and its optimization for applications in comprehensive gas chromatography* (p. 11)
- 10:00–10:15 Nováková E.: *Vapour generation of selenium: comparison of existing approaches* (p. 13)
- 10:15–10:30 Mourão M.P.B.: *Hyphenated and comprehensive LC×GC for the identification of Mycobacterium tuberculosis* (p. 15)
- 10:30–10:45 Prchal V.: *Determination of nitro aromatic environmental pollutants using bismuth bulk electrode* (p. 17)

10:45–11:00 **Coffee Break**

Session 2 • chairperson: Tereza Rumlová

- 11:00–11:15 Beutner A.: *Hyphenation of ion chromatography and capillary electrophoresis* (p. 19)
- 11:15–11:30 Horakova E.: *Voltammetric study and determination of methyl violet 2B using a hanging mercury drop electrode* (p. 21)
- 11:30–11:45 Rybíňová M.: *Determination of selenium using UV-photochemical volatile compounds generation in combination with QF-AAS. From the construction of the apparatus to real sample* (p. 23)
- 11:45–12:00 Spevak A.: *Development of extraction and HPLC methods for determination of coumarins in plant samples* (p. 27)
- 12:00–12:15 Machyňák L.: *Determination of chromium in the waters by flow-through coulometry* (p. 28)

12:15–13:00	Lunch
	Session 3 • chairperson: Magda Staňková
13:00–13:15	Háková E.: <i>Vernix caseosa and its newly discovered nonpolar lipids</i> (p. 30)
13:15–13:30	Sochr J.: <i>The use of boron-doped diamond electrode in the electroanalysis of stress hormones</i> (p. 32)
13:30–13:45	Kotora P.: <i>The analysis of linear and monomethylalkanes in exhaled breath samples GC techniques</i> (p. 34)
13:45–14:00	Rejšek J.: <i>Development and applications of ionization techniques in ambient mass spectrometry</i> (p. 37)
14:00–14:15	Coffee Break
	Session 4 • chairperson: Karel Marschner
14:15–14:30	Brama K.: <i>ICP-MS and SEC-ICP-MS probing of chromium and vanadium bioaccessibility by garden cress and their bioavailability for humans</i> (p. 39)
14:30–14:45	Poláček R.: <i>Fluorescence spectroscopy as a tool for determination of coumarins in melilotus officinalis by multivariate calibration</i> (p. 41)
14:45–15:00	Surmová S.: <i>Analysis of perfumes by using multi-dimensional gas chromatography</i> (p. 43)
15:00–15:15	Klusáčková M.: <i>Hydrogen oxidation reaction on electrode modified by water soluble phthalocyanine</i> (p. 44)
15:15–15:30	Staňková M.: <i>Characterization of polymethacrylate-based monolithic stationary phases</i> (p. 46)
15:30–15:45	Sponsors' Presentations
16:00	Get-Together Party

Tuesday, September 24, 2013

Session 5 • chairperson: Jana Králová

- 9:30–9:45 Ferenczy V.: *Direct silylation method for aqueous samples for gas chromatography* (p. 49)
- 9:45–10:00 Truskolaska M.: *Determination of tributyltin in sediments* (p. 51)
- 10:00–10:15 Čížková A.: *Dispersive liquid-liquid microextraction method: application to essential oils analysis in real samples of herbal beverages* (p. 53)
- 10:15–10:30 Zavazalova J.: *Utilization of boron-doped diamond electrode in electroanalysis of benzophenone-3* (p. 54)
- 10:30–10:45 Bierhanzl V.M.: *GC-MS analysis of polar lipid headgroups* (p. 56)
- 10:45–11:00 **Coffee Break**

Session 6 • chairperson: Eva Háková

- 11:00–11:15 Peteranderl M.: *Ion chromatography as a tool for sample preparation in the investigation of second messenger molecules* (p. 58)
- 11:15–11:30 Hájková A.: *Voltammetric study of 2-aminofluoren-9-one using bare and DNA-modified glassy carbon electrodes* (p. 61)
- 11:30–11:45 Zvěřina Z.: *Laser-induced breakdown spectroscopy in analysis of liquids and solids* (p. 63)
- 11:45–12:00 Barcaru A.: *Retention time prediction in temperature-programmed GC×GC: modelling and error assessment* (p. 67)
- 12:00–12:15 Krejčová Z.: *Voltammetric behaviour and determination of toxic drug nitrofurantoin using a mercury meniscus modified silver solid amalgam electrode* (p. 69)
- 12:15–13:00 **Lunch**

Session 7 • chairperson: Magda Staňková

- 13:00–13:15 Králová J.: *Miniaturization of asymmetrical flow field flow fractionation channel for separation of macromolecules* (p. 71)
- 13:15–13:30 Marschner K.: *Arsenic speciation analysis by HPLC postcolumn hydride generation and detection by atomic fluorescence spectrometry* (p. 74)
- 13:30–13:45 Tůmová T.: *Analysis and characterization of antimicrobial peptides by capillary electromigration methods* (p. 78)
- 13:45–14:00 Rumlová T.: *Electrochemical study of 2-nitrophenol using carbon film electrode and its application to determination of model samples of drinking water* (p. 80)

14:00–14:15 **Coffee Break**

Session 8 • chairperson: Karel Marschner

14:15–14:30 Taraba L.: *Determination of oxalic and citric acid in chromium(III)-containing industrial solutions by capillary zone electrophoresis* (p. 82)

14:30–14:45 Zlámalová M.: *Characterization of poly(methylene blue) modified graphite electrode as a sensor for hydrogen sulphide* (p. 84)

14:45–15:00 Kremr D.: *Comparison of various methods for extraction of capsaicinoids* (p. 86)

15:00–15:15 Linhart O.: *UV-photochemical cold mercury vapor generation as a derivatization step between HPLC separation and AAS detection for speciation analysis of selected mercury compounds* (p. 87)

15:15 **Closing Ceremony**