

ADVANCES IN CHROMATOGRAPHY AND ELECTROPHORESIS & CHIRANAL 2018
FINAL PROGRAM

Conference Venue:

*Fort Science (Interactive Science Centre of Palacký University, Korunní Pevňůstka area)
17. listopadu 7, 779 00 Olomouc, Czech Republic*

Monday (January 29th, 2018)

14:00 – 17:30 Registration (Foyer in front of Laudon's Hall), individual arrival of participants and accommodation

16:00 – 16:15 Opening of conference (Laudon's Hall)
Foreword: Petr Bednář

16:15 – 17:00 *Plenary Lecture (Laudon's Hall), Chairman: Karel Lemr*
Salvatore Fanali – Recent Advancements in Chiral Separations by Using Miniaturized Techniques

17:30 – ?? Welcome Party (*Laudon's Hall*)

Tuesday (January 30th, 2018)

08:30 – 09:00 Breakfast (foyer, 2nd floor)

09:00 – 10:45 *Lectures I (Laudon's Hall), Chairmen: František Švec, Petr Bednář*

09:00 – 09:25 **Michael Lämmerhofer** – Developments in enantiomer separation with spotlight on enantioselective 2D-HPLC (keynote)

09:25 – 09:45 **Michal Kohout** – Synthesis and evaluation of novel chiral strong cation exchangers for enantioseparation of basic drugs

09:45 – 10:05 **Ondřej Kurka** – A combined approach to evaluation of optical rotation – experiment and calculation

10:05 – 10:25 **Vladimír Havlíček** – Disease diagnostics: separation of biomarkers in time and in space

10:25 – 10:45 **Matthias Lübbert (Knauer)** – Efficient lab scale chiral separations using SMB technology

10:45 – 11:15 Coffee break (foyer, 2nd floor)

11:15 – 13:00 *Lectures II (Laudon's Hall), Chairmen: Michael Lämmerhofer, Petr Barták*

11:15 – 11:40 **František Švec** – Metal-organic frameworks: Great means for tuning performance of monolithic polymer systems (keynote)

11:40 – 12:00 **Radim Kučera** – Potential use of ligand-exchange in SPE

12:00 – 12:20 **Denise Wolrab** – Analysis of lipids in biological samples

12:20 – 12:40 **Daniel Vláčil (Bruker)** – Tims TOF and timsTOF Pro – ion mobility in metabolomics and proteomics

12:40 – 13:00 **Magdalena Zimová (Shimadzu)** – MOSH/MOAH food and food packaging contamination

13:10 – 14:10 Lunch (Mensa of Palacký University, Šmeralova 12)

14:30 – 16:00 *Poster session I (Small Hall, 2nd floor) – ODD NUMBERS*

16:00 – 17:55 *Lectures III (Laudon's Hall), Chairmen: Salvatore Fanali, Barbora Papoušková*

16:00 – 16:25 **Michal Roth** – Supercritical water in etching and morphing of siliceous surfaces for analytical separations (keynote)

16:25 – 16:50 **Lucie Nováková** – Supercritical fluid chromatography in pharmaceutical analysis and bioanalysis (keynote)

16:50 – 17:15 **Milan Hutta** – Humic substances HPLC separation, characterization, determination and controversies (keynote)

17:15 – 17:35 **Lukáš Kučera** – Analysis of organic residues and artefacts in archaeological findings

17:35 – 17:55 **Ondřej Lacina (HPST-Agilent)** – Supercritical fluid chromatography with MS: Separation beyond expectations

18:00 – 19:00 Dinner (Mensa of Palacký University, Šmeralova 12)

Wednesday (January 31th, 2018)

08:30 – 09:00 Breakfast (foyer, 2nd floor)

09:00 – 11:00 Lectures IV (Laudon's Hall), Chairmen: Václav Kašička, Volodymyr Pauk

09:00 – 09:25 **Jan Petr** – Low-cost microfluidics for bioanalysis (keynote)

09:25 – 09:45 **Marián Masár** – Microchip electrophoresis coupled to various detection techniques for the analyses of complex ionogenic samples

09:45 – 10:05 **Andrew Williamson (Thermo, Pragolab)** - ZipChipTM and Thermo ScientificTM MS for CZE/ESI-MS analyses

10:05 – 10:25 **Vojtěch Tambor (Trilab)** – Utilization of 3D print in separation techniques and mass spectrometry

10:25 – 10:45 **Jan Bohuslávek (Waters)** – Recent trends in 2D-LC

10:45 – 11:00 **Petra Russkamp (Chromatographia)** – Editorial note

11:00 – 11:30 Coffee break (foyer, 2nd floor)

11:30 – 13:00 Poster session II (Small Hall, 2nd floor) – EVEN NUMBERS

13:10 – 14:10 Lunch (Mensa of Palacký University, Šmeralova 12)

14:30 – 17:00 Social/Sport events

– bowling (beginning at 15:00, Bowland Olomouc)

– concert of Olomouc Chamber Quartet (Laudon's Hall) and tour in Fort Science (beginning at 15:00)

18:00 – ?? Social dinner with commented wine tasting (Laudon's Hall)

Thursday (February 1st, 2018)

08:30 – 09:00 Breakfast (foyer, 2nd floor)

09:00 – 10:45 Lectures V (Laudon's Hall), Chairmen: Michal Roth, Jan Petr

09:00 – 09:25 **Petr Kubáň** – Capillary electrophoresis in clinical diagnosis and monitoring (keynote)

09:25 – 09:45 **David Friedecký** – Pitfalls and limitations of LC/MS clinical metabolomics

09:45 – 10:05 **Rudolf Kupčík** – TiO₂ nanotubes decorated by Fe₃O₄ nanoparticles: A tool to selectively isolate biomolecules

10:05 – 10:25 **Jan Havlíček (Merck)** – Merck solution of high quality UPW for chromatography application

10:45 – 10:55 Coffee break (foyer, 2nd floor)

10:55 – 12:20 Lectures VI (Laudon's Hall), Chairmen: Petr Kubáň, Ondřej Kurka

10:55 – 11:20 **Václav Kašička** – Capillary electrophoresis applied to chiral separations of diquats and to estimation of the stability constants of their complexes with sulfated cyclodextrins (keynote)

11:20 – 11:40 **Marek Minárik** – Improvement of chiral HPLC resolution by a zero dead-volume recycling

11:40 – 12:00 **Ivo Soral** – Wine waste as potential source of polyphenols

12:00 – 12:20 **Tomáš Korba (Amedis)** – Vacuum ultraviolet spectroscopy – new detection technique for gas chromatography and process gas analysis

12:20 – 13:05 Plenary Lecture, Chairman: Petr Fryčák

Kevin Schug - The vacuum ultraviolet spectroscopy toolkit for gas chromatography detection

13:05 – 13:15 Closing of conference and farewell drink

13:25 – 14:25 Lunch (Mensa of Palacký University, Šmeralova 12)