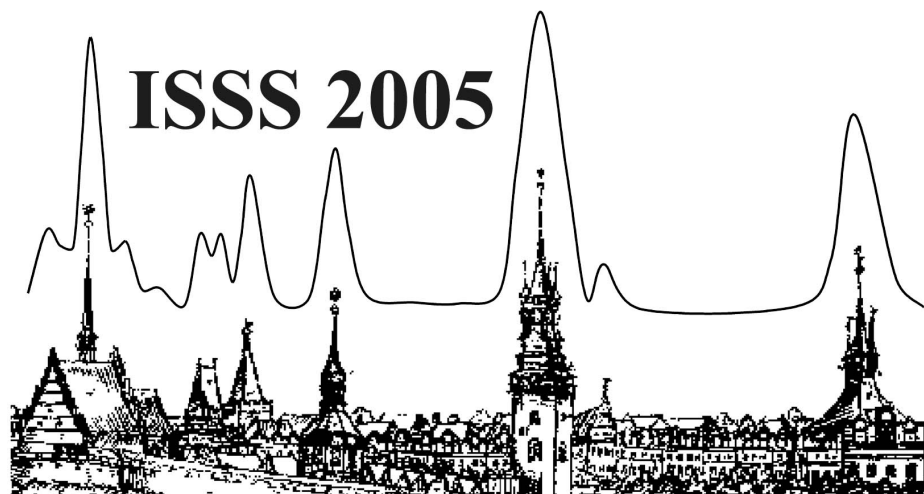


11th International Symposium on Separation Sciences



September 12 - 14, 2005,
University congress hall "Aula Arnošta z Pardubic"
Pardubice, Czech Republic

Final Programme



Organizers

Group for Chromatography and Electrophoresis of Czech Chemical Society

Central European Group for Separation Sciences (CEGSS)

Faculty of Chemical Technology, Department of Analytical Chemistry

under auspices of the European Society for Separation Sciences (EuSSS)

Honorary Committee

Prof. Miroslav Ludwig (Rector of the University of Pardubice)

Prof. Petr Mikulášek (Dean of the Faculty of Chemical Technology, University of Pardubice)

Prof. Georges Guiochon (University of Tennessee and Oak Ridge National Laboratory (Knoxville, TN, USA), doctor honoris causa (University of Pardubice)

Prof. Jaroslav Janák (Founder of the Institute of Analytical Chemistry of Czechoslovak Academy of Sciences, Brno, Czech Republic)

International Scientific Committee

Klaus Albert, Tübingen, D

*Dušan Berek, Bratislava, SK

Lars Blomberg, Karlstad, S

*Wolfgang Buchberger, Linz, A

*Boguslaw Buszewski, Torun, PL

Francesco Dondi, Ferrara, I

Hartmut Frank, Bayreuth, D

Tyge Greibrokk, Oslo, N

*Pavel Jandera, Pardubice, CZ - chairman

Dušan Kanianský, Bratislava, SK

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*Lucja Zupančič-Kralj, Ljubljana, SLO

Jozef Lehotay, Bratislava, SK

Luigi Mondello, Messina, I

Miloš Novotný, Bloomington, IN, USA

*Szabolcs Nyiredy, Budakalasz, H

*Nikola Šegudović, Zagreb, HR

*Corrado Sarzanini, Torino, I

Peter Schoenmakers, Amsterdam, NL

František Švec, Berkeley, CA, USA

*permanent members of CEGSS scientific committee

Local Organizing Committee

Petr Česla, Jan Fischer, Michal Holčapek, Aleš Horna, **Pavel Jandera - chairman**,

Václav Kašička, Lenka Kolářová, Kateřina Matoušková, Kateřina Novotná, Václav Staněk, Karel Ventura

Sponsors

- Radanal, Pardubice
- Agilent Technologies and HPST, Praha
- Zentiva, Praha
- IVAX, Opava
- Shimadzu Praha
- SIB Brno
- Bio-Rad Laboratories Praha
- MERCK Praha
- Waters Praha
- BIA Separations, Ljubljana, Slovenia

Exhibitors

- Agilent Technologies and HPST, Praha
- Applied Biosystems
- Bio-Rad Laboratories, Praha
- BioTech, Bratislava
- Chromservis, Praha
- DataApex, Praha
- ECOM, Praha
- LECO Instrumente, Plzen
- Linde Technoplyn
- MERCK, Praha
- Radanal Pardubice
- Shimadzu, Praha
- Sigma-Aldrich, Praha
- SIPOCH, Praha
- Waters, Praha
- 2Theta, Český Těšín

Poster Competition Awards

1. Financial support to attend a symposium on separation techniques in 2006, awarded by EuSSS.
2. Financial support to attend a symposium on separation techniques in 2006, awarded by Faculty of Chemical Technology, University of Pardubice.

3. Registration and accommodation at 12th ISSS in Lipica, Slovenia, 2006, awarded by Agilent Technologies.
3. Registration and accommodation at 12th ISSS in Lipica, Slovenia, 2006, awarded by Slovenian Chemical Society and Austrian Society for Analytical Chemistry.

Registration

The registration desk will be open on Sunday 11th, 17:00 – 20:00 and on Monday 12th, 8:00 – 12:00 at the entrance to the hall, on Monday 12th, 13:00 – 16:00, on Tuesday 13th and Wednesday 14th, 8:00 – 12:00 on the second floor.

Presentation Facilities

The time for oral presentations will be 25 or 20 minutes except for the young scientists sessions (15 minutes) and company presentations (10 minutes), including 5 minutes for discussion. Overhead projector and computer projection facilities for PowerPoint projection will be available. Presenting authors are requested to bring their presentations on CDs or USB Flash drives and to upload their presentations using the computer available in the Preview Room on the second floor one hour before the start of their session at the latest.

The poster presenters are kindly requested to install the posters before 10:00 and remove before 18:10 on the day of presentation. Pins for poster installation will be available, no tape should be used. The time of the Poster session 1 (-Mo) on Monday Sept 12 and Poster session 2 (-Tu) on Tuesday Sept 13 is from 14:00 to 16:00. The presenting authors should be present at their posters during the sessions.

Symposium Proceedings

The contributions presented at the ISSS 2005 in Pardubice can be published in the special issue of Journal of Separation Science. Selected papers presented at ISSS 2005 can be submitted via the journal website at <http://mc.manuscriptcentral.com/jss/>, according to the authors' instructions given there, noting the special volume "Pardubice". The deadline is by November 30, 2005, however earlier submission will be strongly appreciated. The acceptance of the manuscripts will be subject to the regular peer-review procedure.

Internet Connection

Internet connection will be available during the symposium in the room A4 on the second floor.

Scientific Programme

Monday 12th September

9:00 – 9:20 Opening of ISSS 2005

Plenary session S1 – A1

9:20 – 10:35 Major Advances in Separation Sciences

Chair: B. Buszewski, E. Smolková-Keulemansová

- L1:** 9:20 – 9:45 **Gritti F., Guiochon G.** (Knoxville, TN, USA)
Adsorption Mechanism in RPLC: Differences between Methanol and Acetonitrile.
- L2:** 9:45 – 10:10 **Novotný M.V., Mechref, Y., Maděra M., Kang P., Kloučková I.**
(Bloomington, IN, USA)
Recent Advances in Glycomic and Proteomic Separations and Measurements.
- L3:** 10:10 – 10:35 **Schoenmakers P.J.** (Amsterdam, The Netherlands)
Comprehensive Two-dimensional Liquid Chromatography.

10:35 – 11:00 Coffee break

Parallel session S2 – A1

11:00 – 13:00 Fundamentals and New Techniques

Chair: G. Guiochon, M.V. Novotný

- L4:** 11:00 – 11:20 **Rozing G., Glatz B., Kraiczek K.** (Waldbronn, Germany)
An Experimental Study of Chromatographic Properties of Nanoflow HPLC and HPLC-Chip Columns.
- L5:** 11:20 – 11:40 **Felinger A.** (Pecs, Hungary)
How Do Molecules Spend their Time while Riding Down the HPLC Column?
- L6:** 11:40 – 12:00 **Plankeele J.-M.** (Paris, France)
Ultra Performance LCTM – Major Breakthrough in Liquid Chromatography.
- L7:** 12:00 – 12:20 **Markuszewski M.J., Kaliszan R., Wiczling P.** (Gdańsk, Poland)
pH Gradient HPLC: Present State of the Method.
- L8:** 12:20 – 12:40 **Sarzanini C.** (Torino, Italy)
The Contribution of Ion Chromatography to Separation Science.
- L9:** 12:40 – 13:00 **Karásek P., Planeta J., Roth M.** (Brno, Czech Republic)
Pressurized Hot Water Extraction as a Source of Aqueous Solubility Data of Polycyclic Aromatic Hydrocarbons: Instrumental Aspects and Experimental Results.

Parallel session S3 – A2

11:00 – 13:00 Sample Preparation and Enrichment Techniques

Chair: N. Šegudović, K. Macek

- L10:** 11:00 – 11:20 **Blomberg L.G., Abdel-Rehim M., Altun Z.** (Karlstad, Sweden)
New Trends in Sample Preparation: On-line Microextraction in Packed Syringe (MEPS) for LC and GC Applications.
- L11:** 11:20 – 11:40 **Maisonette C., Simon P., Le Moullec S., Bellier B., Chapuis F., Pichon V.** (Paris, France)
Selective Approach of the Sample Pretreatment: Potential of the Immunosorbents and Molecular Imprinted Polymers.
- L12:** 11:40 – 12:00 **Theodoridis G.** (Thessaloniki, Greece)
Modern Techniques for Sample Preparation in Bio-Analysis. Needs, Possibilities and Strategies for Efficiency Enhancement.
- L13:** 12:00 – 12:20 **Yu Y.C.C., Lai E.P.C. Dąbek-Złotorzyska E.** (Ottawa, Canada)
Molecularly Imprinted Polymers for Solid Phase Extraction of Ochratoxin A and Other Toxic Substances: Merits and Limitations.
- L14:** 12:20 – 12:40 **Pedersen-Bjergaard S., Rasmussen K.E., Grønhaug Halvorsen T., Si Ho T.** (Oslo, Norway)
Liquid-Phase Micro-Extraction – a New Concept for Sample Preparation Facilitating Different Extraction Principles.
- L15:** 12:40 – 13:00 **Tranchida P.Q., Casilli A., Dugo P., Dugo G., Mondello L.** (Messina, Italy)
Automated Fast Solid-Phase Microextraction-Gas Chromatography with Analyte Cryo-Focussing for the Headspace Analysis of Complex Samples.

13:00 – 14:00 Lunch

13:00 – 15:00 Workshop 1 – A3: Electrophoretic Separations on Chips (Bio-Rad – J. Vašák, J. Nováková, J. Žák)

14:00 – 16:00 Poster session 1, Manufacturer's Exhibition, Coffee

Parallel session S4 – A1

16:00 – 18:00 Stationary Phases

Chair: S. Nyiredy, J. Lehotay

- L16:** 16:00 – 16:25 **Albert K., Ditrich B., Friebolin V., Grynbaum M.D., Hentschel P., Krieg C., Meyer C., Putzbach K., Rehbein J., Welsch N.** (Tübingen, Germany)
Development and Application of Stationary Phases in Hyphenated LC-MS and LC-NMR.
- L17:** 16:25 – 16:50 **Švec F.** (Berkeley, CA, USA)
Advantages of Monolithic Columns in Microseparation Techniques.
- L18:** 16:50 – 17:10 **Reijenga J., Hutta M.** (Eindhoven, The Netherlands; Bratislava, Slovak Republic)
Computer Training Simulation of Monolithic Column HPLC.
- L19:** 17:10 – 17:30 **Cabrera K., Hauck H.E., Lubda D., Kraus A., Schulz M.** (Darmstadt, Germany)
Advances of Stationary Phases in HPLC and TLC.

- L20:** 17:30 – 17:50 **Barut M., Lendero N., Vidič J., Brne P., Podgornik A., Štrancar A.** (Ljubljana, Slovenia)
Methacrylate Based Short Monolithic Columns for High Throughput Downstream Processing of Biomacromolecules.
- L21:** 17:50 – 18:10 **Berek D.** (Bratislava, Slovakia)
Retentivity and Phase Volume of C-18 Alkane-bonded Silica Gels for HPLC Assessed with Macromolecular Probes.

Parallel session YSS1 – A2

16:00 – 18:00 COM-CHROM Project Workshop

Chair: T. Greibrokk, K. Štulík

- YSL1:** 16:00 – 16:15 **Kumm T., Dugo P., Cotroneo A., Dugo G., Mondello L.** (Messina, Italy)
Analysis of Triacylglycerols in Complex Natural Matrices by Using Multidimensional HPLC.
- YSL2:** 16:15 – 16:30 **Pepaj M., Lundanes E., Greibrokk T.** (Oslo, Norway)
Separation of Proteins Using Two-Dimensional Capillary LC.
- YSL3:** 16:30 – 16:45 **Skuland I.L., Eriksson B.O., Blomberg L.G.** (Karlstad, Sweden; Oslo, Norway)
Sample Focusing in Electric Field Assisted Capillary Liquid Chromatography.
- YSL4:** 16:45 – 17:00 **Mihailova A., Lundanes E., Greibrokk T.** (Oslo, Norway)
Combined Solid Phase Extraction and 2D LC-MS for the Characterization of Neuropeptides of Rat Brain Tissue.
- YSL5:** 17:00 – 17:15 **Altun Z., Blomberg L.G., Abdel-Rehim M.** (Karlstad, Sweden)
Increasing Sample Preparation Throughput Using Monolithic Methacrylate Polymer as Packing Material for 96-Tips.
- YSL6:** 17:15 – 17:30 **Novotná K., Jandera P., Halama M.** (Pardubice, Czech Republic)
New Approaches to Characterization of HPLC Column Selectivity.
- YSL7:** 17:30 – 17:45 **Urban J., Jandera P., Moravcová D., Schoenmakers P.J.** (Pardubice, Czech Republic; Amsterdam, The Netherlands)
Control of Pore Formation in Monolithic Columns and Their Characterization.
- YSL8:** 17:45 – 18:00 **Lasáková M., Pichon V., Thiébaud D., Belhadj F., Hennion M.C., Jandera P.** (Paris, France; Pardubice, Czech Republic)
Synthesis and Recognition Properties of a MIP Developed for the Selective Extraction of Polar Neurotransmitters.

Tuesday 13th September

Parallel session S5 – A1

8:30 – 10:40 Two-dimensional Separations

Chair: P. Schoenmakers, J. Krupčík

- L22:** 8:30 – 8:55 **Mondello L., Dugo P.** (Messina, Italy)
Comprehensive Chromatography. Different Solutions for Volatile and Non-Volatile Components (GCxGC, LCxLC).

- L23:** 8:55 – 9:20 **Greibrokk T., Pepaj M., Novotná K., Andersen T., Lundanes E.** (Oslo, Norway)
Separation of Proteins by pI Values for 1D and 2D Separation Purposes.
- L24:** 9:20 – 9:40 **Thiébaud D., Vendevre C., Bertoncini F., Hennion M.-C.** (Paris, France)
New Applications of Comprehensive GCxGC in the Petroleum Industry.
- L25:** 9:40 – 10:00 **Casilli A., Tranchida P.Q., Furakawa M., Komori K., Miseki K., Dugo P., Dugo G., Mondello L.** (Messina, Italy)
Multidimensional Gas Chromatography (MDGC) for Complex Samples Analysis.
- L26:** 10:00 – 10:20 **Zrostlíková J.** (Praha, Czech Republic)
GCxGC-TOF MS for the Identification of Compounds in Complex Food and Natural Samples.
- L27:** 10:20 – 10:40 **Vivó-Truyols G., van Misspelaar V., Schoenmakers P.J.** (Amsterdam, The Netherlands)
Towards Unsupervised Analysis of Two-dimensional Chromatographic Data.

Parallel session S6 – A2

8:30 – 10:40 Electromigration Techniques – In memoriam of Zdeněk Deyl

Chair: S. Fanali, M. Hutta

- L28:** 8:30 – 8:55 **Buszewski B., Kłodzińska E.** (Toruń, Poland)
Electromigration Techniques in Separation of Microorganisms.
- L29:** 8:55 – 9:20 **Buchberger W.** (Linz, Austria)
New Techniques for Organic Trace Analysis by Capillary Electrophoresis.
- L30:** 9:20 – 9:40 **Tagliaro F., Bortolotti F.** (Verona, Italy)
Capillary Electrophoresis Applied to the Analysis of Biomarkers of Alcohol Abuse.
- L31:** 9:40 – 10:00 **Jaroš M., Hruška V., Štědrý M., Zusková I., Gaš B.** (Praha, Czech Republic)
Advanced Simulation and Prediction Tools for Electrophoresis.
- L32:** 10:00 – 10:20 **Deyl Z., Mikšík I.** (Praha, Czech Republic)
Open Tubular Capillary Electrochromatography with Expanded Porphyrins.
- L33:** 10:20 – 10:40 **Evenhuis C.J., Guijt R.M., Macka M., Marriott P.J., Haddad P.R.** (Hobart, Australia)
At What Temperatures Do Electro-driven Separations Really Run?

10:40 – 11:00 Coffee break

Parallel session S7 – A1

11:00 – 13:00 Biopolymers and Synthetic Polymers

Chair: K. Albert, F. Švec

- L34:** 11:00 – 11:20 **Kašička V., Koval D., Šolínová V., Sázelová P.** (Praha, Czech Republic)
Recent Advances in Capillary Electrophoresis of Peptides and Proteins.

- L35:** 11:20 – 11:40 **Chmelík J.** (Brno, Czech Republic)
Fragmentation of Neutral Sacharides in Negative Ion Mode MS – A New Tool for Characterization of Oligosacharides.
- L36:** 11:40 – 12:00 **Bílková Z., Slovákova M., Korecká L., Minc N., Viovy J.-L.** (Pardubice, Czech Republic; Paris, France)
New Trends in Qualitative Analysis of Proteins.
- L37:** 12:00 – 12:20 **Baczek T., Kaliszan R.** (Gdańsk, Poland)
QSRR Analysis to Assist Proteomics.
- L38:** 12:20 – 12:40 **Klepárník K., Spěšný M., Otevřel M., Foret F.** (Brno, Czech Republic)
Integrated Miniaturized Device for On-line Combination of Capillary Electrophoresis with Nano-electrospray Ionization Mass Spectrometry.
- L39:** 12:40 – 13:00 **Kolářová L., Jandera P.** (Pardubice, Czech Republic)
Study of the Thermodynamics of Retention of Block Copolymers in LC Using LC-MS Techniques.

Parallel session S8 – A2

11:00 – 13:00 Environmental, Clinical and Pharmaceutical Applications I.

Chair: H. Frank, D. Berek

- L40:** 11:00 – 11:20 **Šegudović N.** (Zagreb, Croatia)
Chromatographic Techniques in Molecular Organic Geochemistry Analysis.
- L41:** 11:20 – 11:40 **Lehotay J., Rojkovičová T., Čižmárik J., Armstrong D.W.** (Bratislava, Slovakia; Ames, IA, USA)
Thermodynamic Study of Influence of Temperature on HPLC Separation of Some Enantiomers of Phenylcarbamic Acid Derivatives Using Macrocyclic Antibiotic Column.
- L42:** 11:40 – 12:00 **Prosen H.** (Ljubljana, Slovenia)
Role of Separation Methods in Elucidating the Fate of Organic Pollutants in the Environment.
- L43:** 12:00 – 12:20 **Krupčík J., Mydlová J., Špánik I., Benická E., Korytár P.** (Bratislava, Slovakia)
Analysis of Polybrominated Diphenyl Ethers.
- L44:** 12:20 – 12:40 **Plzák Z., Kohl L.** (Řež, Czech Republic)
GC/MS Speciation Analysis of Organometallic Compounds of Mercury and Tin.
- L45:** 12:40 – 13:00 **Szymańska E., Markuszewski M.J., Bodzioch K., Kaliszan R., Markuszewski M., Krajka K.** (Gdańsk, Poland)
Combined Use of Separation Data and Bioinformatics in Metabolomic Analysis of Urological Clinical Patterns.

13:00 – 14:00 Lunch

13:00 – 15:00 Workshop 2 – A3: Multidimensional LC and LC-MS-IT-TOF
(Shimadzu – R. Oros, L. Mondello)

14:00 – 16:00 Poster session 2, Manufacturer's exhibition, Coffee

Parallel session S9 – A2

16:00 – 18:00 Environmental, Clinical and Pharmaceutical Applications II., Company Presentations

Chair: W. Buchberger, I. Mikšík

- L46:** 16:00 – 16:20 **Hutta M.** (Bratislava, Slovakia)
Analysis of Ionogenic Compounds in Complex Mixtures by Combinations of Liquid Chromatography and Electroseparation Methods.
- L47:** 16:20 – 16.40 **Wardencki W., Michulec M.** (Gdańsk, Poland)
Application of Pro-ecological Pre-treatment Techniques (HS, SPME and SDE) for Determination of Solvent Residues in Vegetable Oils and Pharmaceuticals.
- L48:** 16:40 – 16:55 **Exner M.** (Company presentation – Waters)
UPLC vs HPLC Applications.
- L49:** 16:55 – 17:10 **Procházková D.** (Company presentation – Sigma-Aldrich)
Advantages of New HPLC Phases Compare to RP-18.
- L50:** 17:10 – 17:20 **Vinš I.** (Company presentation – Data Apex)
Clarity - Data Solution for LC and GC Systems.
- L51:** 17:20 – 17:35 **Koval' M.** (Company presentation – 2-Theta – Villa Labeco)
Some Practical Applications of ITP and ITP-CZE.
- L52:** 17:35 – 17:45 **Vajner L., Kephart T.S.** (Company presentation – SIPOCH)
Enhancing Fraction Collection Parameters.
- L54:** 17:45 – 18:00 **Jehlička P.** (Company presentation – HPST)
Current Innovations in Agilent Technologies Chromatography Instruments.

Parallel session YSS2 – A1

16:00 – 18:00

Chair: C. Sarzanini, B. Gaš

- YSL9:** 16:00 – 16:15 **Elosta S., Gajdošová D., Havel J.** (Brno, Czech Republic)
New Capillary Zone Electrophoresis Method for Analysis of Ginkgo Biloba Extracts and Ginkgo Biloba Pharmaceutical Products.
- YSL10:** 16:15 – 16:30 **Srinivasan G., Kailasam K., Balasubramaniyan P., Müller K.** (Stuttgart, Germany)
Solid-State NMR and FTIR Studies on Chromatographic Column Materials.
- YSL11:** 16:30 – 16:45 **Křenková J., Foret F.** (Brno, Czech Republic)
Immobilized Enzymatic Microreactors for Protein Analysis.
- YSL12:** 16:45 – 17:00 **Lendero N., Podgornik A., Štrancar A.** (Ljubljana, Slovenia)
New Method for Determining the Amount of Ion-exchange Groups on Chromatographic Supports.

- YSL13:** 17:00 – 17:15 **Hercegová A., Matisová E.** (Bratislava, Slovakia)
Evaluation of Sample Preparation Methods in Combination with Fast GC-MS for Ultratrace Analysis of Xenobiotics in Non-Fatty Food.
- YSL14:** 17:15 – 17:30 **Zeisbergerová M., Košťál V., Glatz Z., Kahle V.** (Brno, Czech Republic)
Sample Injection in Capillary Electrochromatography: Assessment of Splitter Utilization.
- YSL 15:** 17:30 – 17:45 **Čajka T., Hajšlová J., Lacina O.** (Praha, Czech Republic)
Novel Approaches to Streamlining Gas Chromatographic Analysis of Multiple Pesticide Residues in Food.
- YSL16:** 17:45 – 18:00 **Kirchner M., Matisová E., Dömötörövá M.** (Bratislava, Slovakia)
Possibilities and Limitation of Fast Gas Chromatography - Mass Spectrometry in Ultra-Trace Analysis.

20:00 – 23:00 Symposium reception at Pardubice Castle

Wednesday 14th September

Plenary session S10 – A1

8:30 – 9:40 Miniaturization

Chair: F. Dondi, V. Kašička

- L56:** 8:30 – 8:55 **Fanali S.** (Rome, Italy)
Miniaturized Electrodriven and Chromatographic Techniques for Chiral Analysis.
- L57:** 8:55 – 9:20 **Foret F.** (Brno, Czech Republic)
Miniaturization and Mass Spectrometry Interfacing.
- L59:** 9:20 – 9:45 **Janča J.** (La Rochelle, France)
Miniaturization Trends in Field-Flow Fractionation.

9:45 – 10:15 Coffee break

Plenary session S11 – A1

10:15 – 11:30 State of Art and New Horizons in Separation Sciences

Chair: L. Mondello, F. Foret

- L60:** 10:15 – 10:40 **Dondi F., Pasti L., Ventosa E.A., Mingozi I.** (Ferrara, Italy)
Programming in Field Flow Fractionation: Modeling in Thermal Field Fractionation and Applications to Polymer Characterization.
- L61:** 10:40 – 11:05 **Nviredy S.** (Budakalasz, Hungary)
New Horizon in Planar Chromatography: Fully On-line HPTLC.
- L62:** 11:05 – 11:30 **Frank H.** (Bayreuth, Germany)
Separation Science and Human Well Being.

11:30 – 12:00 Poster awards, Closing remarks.

13:30 – 19:00 Post congress excursion to Kutná Hora (optional).

Poster session 1 – Monday 12th September

- P1-Mo** **Oriňák A., Preisler J., Hellweg S., Talian I., Arlinghaus H.F., Onofrejevá L.** (Košice, Slovakia)
TOF SIMS and MALDI TOF MS Analysis on Different Chromatographic Thin Layers.
- P2-Mo** **Reijenga J.** (Eindhoven, The Netherlands)
Correlation Vacancy Electrophoresis Setup for Trace Analysis, Process Monitoring, Finger Printing, Trend Analysis.
- P3-Mo** **Borusiewicz R., Zadora G.** (Krakow, Poland)
A Comparison of the Effectiveness of Tenax TA and Carbotrap 300 in Concentration of Accelerants Compounds.
- P4-Mo** **Dömötörövá M., Matisová E., Kirchner M.** (Bratislava, Slovakia)
Comparison of Narrow-bore Analytical Column of Different Internal Diameter in Fast Gas Chromatography.
- P5-Mo** **Hrouzková S., Báchor M., Matisová E., Kirchner M.** (Bratislava, Slovakia)
Ultratrace Analysis of Pesticides in Water by Fast GC-MS in Combination with SPE.
- P6-Mo** **Krzemińska S.** (Łódź, Poland)
Determination of Organic Mixtures Permeating Through Butyl Ruber Membranes by Means of Gas Chromatography.
- P7-Mo** **Marszałł M., Kaliszan R.** (Gdańsk, Poland)
Silanol Suppression by Ionic Liquids in HPLC.
- P8-Mo** **Matucha M., Rohlenová J., Forczek S.T.** (Praha, Czech Republic)
ECD-GC Determination of Trichloroacetic Acid in Environmental Samples and its Problems.
- P9-Mo** **Mydlová J., Krupčík J., Špánik I., Benická E., Korytár P.** (Bratislava, Slovakia)
The Use of Chemometry for the Separation of Chromatographically Unresolved Peaks of Polybrominated Diphenyl Ethers.
- P10-Mo** **Rostamzadegan P., Faraji H., Rashidzadeh S.** (Varamin, Iran)
Determination of Fuel Dialkyl Ethers and BTEX in Water Using Stir Bar Sorptive Extraction and Gas Chromatography-Mass Spectrometry System.
- P11-Mo** **Špánik I., Horvathová G.** (Bratislava, Slovakia)
GC Determination of Enantiomers of Amino Acids Using Solid-Phase Extraction.

- P12-Mo** Špánik I., Repaská K., Krupčík J., Armstrong D.W. (Bratislava, Slovakia)
The Influence of Substitution Pattern in Cyclodextrin Stationary Phases on GC Enantiomer Separation of Alpha Substituted Propionic Acid Derivatives.
- P13-Mo** Zabiegała B., Konieczka P., Janicki W. (Gdańsk, Poland)
Comparison of GC-ECD and GC-MS Techniques for Determination of PCBs in Transformer Oils.
- P14-Mo** Zadora G. (Krakow, Poland)
An Analysis of Organic Compounds in Complex Matrices by ATD-GC/MS – Forensic Applications.
- P15-Mo** Żebrowski W., Buszewski B. (Toruń, Poland)
Chemical Monitoring of PBC's in Different Environmental Matrices with Used Tandem Techniques SPE-GC/ECD and SPE-GC/MS.
- P16-Mo** Dąbek-Zlotorzynska E., Celo V. (Ottawa, Canada)
High-Performance Liquid Chromatography Analysis of Urea Thermal Degradation Products in Emissions from Diesel Engines Employing Urea-Selective Catalytic Reduction After-Treatment Technology.
- P17-Mo** Dąbek-Zlotorzynska E., Piechowski M. (Ottawa, Canada)
Determination of Isomeric Benzene Polycarboxylic Acids in Airborne Particulate Matter and Vehicular Emission by Enhanced Capillary Electrophoresis through Easy Electroosmotic Flow Control with Novel Polymeric Dynamic Coatings.
- P18-Mo** Hruška V., Štědrý M., Jaroš M., Gaš B. (Praha, Czech Republic)
Amplitudes of System Peaks in Electrophoresis.
- P19-Mo** Košťál V., Zeisbergerová M., Hroteková Z., Kahle V., Šlais K. (Brno, Czech Republic)
Application of Miniaturized Fluorimetric Detection Cell in Capillary Electrophoresis of Amino Acids.
- P20-Mo** El Zohri M., Čabala R., Frank H. (Bayreuth, Germany)
On-line HPLC-ESI-MS-MS Determination of Phytochelatins in Broad Beans (*Vicia Faba L.*).
- P21-Mo** Pazourek J., Šulák O., Spanilá M., Gajdošová D., Havel J. (Brno, Czech Republic)
Application of a New Method for Electroosmotic Flow Measurement to Coating Characterization in Capillary Electrophoresis of Proteins.
- P22-Mo** Sladkovský R., Solich P. (Hradec Králové, Czech Republic)
Off-line Coupling of Capillary Isotachopheresis and Liquid Chromatography for the Assay of Phenolic Compounds.

- P23-Mo** Česla P., Fischer J., Staněk V., Tesařová E., Jandera P. (Pardubice, Czech Republic)
CZE Separations of Acidic Dyes and Their Intermediates.
- P24-Mo** Djaković-Sekulić T., Perišić-Janić N. (Novi Sad, Serbia & Montenegro)
Retention of the 3,5-dinitro Derivatives of the Linear Alcohols on Unconventional TLC Supports.
- P25-Mo** Okamoto M., Saito Y., Saito S., Jinno K. (Gifu, Japan)
TLC Behavior of 1,4-Benzodiazepines and Analogues Using 3-Glycidoxypropyl-, 3-Aminopropyl-, 3-Cyanopropyl-, di-Phenyl-, Octadecyl-, or Non- Treated HPTLC Plates on Intoxication.
- P26-Mo** Bakhtyari A., Faraji H., Rashidzadeh S. (Varamin, Iran)
Solid-phase Microextraction of Polycyclic Aromatic Hydrocarbons Using a Fused-silica Fiber Coated with β -cyclodextrin-bonded Silica Particles.
- P27-Mo** Erbacher C., Kirchmann M., Schick P., Carsten S., Ritt C. (Hilden, Germany)
Preparation of Silica Monolith Spin Columns for Nucleic Acid Purification.
- P28-Mo** Grafnetter J., Coufal P., Suchánková J., Tesařová E. (Praha, Czech Republic)
Repeatability of Preparation of Butylmethacrylate Monolithic Columns for Capillary LC.
- P29-Mo** Kailasam K., Srinivasan G., Müller K. (Stuttgart, Germany)
Influence of Solvents and Precursors on Stationary Phase Materials.
- P30-Mo** Kamiński M., Gilgenast E. (Gdańsk, Poland)
Possibility of Using Reverse Elution in HPLC for Quantitative Group-Type Determination of Strong Retained Compounds, e.g. For Polar Compounds Determination in Crude Oil Products.
- P31-Mo** Kowalska S., Zalewska A., Stepnowski P., Buszewski B. (Toruń, Poland)
Effect of Analyte « Stationary Phase Interactions in RP-HPLC Determination of Ionic Liquids.
- P32-Mo** Kowalska S., Zalewska A., Stepnowski P., Buszewski B. (Toruń, Poland)
The Influence of Stationary Phase Properties on Ionic Liquids Separation in RP-HPLC.
- P33-Mo** Kučera R., Císař P., Žižkovský V., Sochor J., Klimeš J. (Hradec Králové, Czech Republic)
Zirconia Based HPLC Column as an Alternative in Drug Control.
- P34-Mo** Lokajová J., Kalíková K., Tesařová E. (Praha, Czech Republic)
Comparative Study of Three Teicoplanin-based Chiral Stationary Phases Using the LFER Model.

- P35-Mo** Miyabe K., Guiochon G. (Toyama, Japan; Knoxville, TN, USA)
Extrathermodynamic Interpretation of Retention Equilibrium in Reversed-Phase Liquid Chromatography Using Octadecylsilyl-Silica Gels Bonded to C1 and C18 Ligands of Different Densities.
- P36-Mo** Naganowska-Nowak A., Konieczka P., Szczygielska-Tao J., Biernat J.F., Namieśnik J. (Gdańsk, Poland)
Types of Solid Supports for Surface Compounds - The Sources of Volatile Analytes.
- P37-Mo** Širc J., Bosáková Z., Michálek J., Guryča V. (Praha, Czech Republic)
Characterization of Molecularly Imprinted Monolithic Columns.
- P38-Mo** Ježová V., Eisner A., Ventura K. (Pardubice, Czech Republic)
The Role of the Extraction and Chromatographic Techniques in the Analysis of Explosives Materials and Their Residues.
- P39-Mo** Vidič J., Podgornik A., Štrancar A. (Ljubljana, Slovenia)
Determination of the Ion-exchange Ligand Type on Methacrylate Monoliths.
- P40-Mo** Waksmundzka-Hajnos M., Petruczynek A. (Lublin, Poland)
Retention Behaviour of Heterocyclic Bases on CN-propyl and Amide Stationary Phases by HPLC.
- P41-Mo** Welerowicz T., Mańkowska K., Gadzała-Kopciuch R., Plewa P., Buszewski B. (Toruń, Poland)
Cholesterolic Stationary Phase for Solid Phase Extraction.
- P42-Mo** Halama M., Jandera P., Novotná K., Claessens H.A. (Pardubice, Czech Republic; Eindhoven, The Netherlands)
Characterization of HPLC Column Selectivity.
- P43-Mo** Moravcová D., Jandera P., Urban J. (Pardubice, Czech Republic)
The Monolithic Rods in Capillary Chromatography.
- P44-Mo** Babú Y.N., Wsól V. (Hradec Králové, Czech Republic)
Enantioselective Glucuronidation of Flubufen in Rat Liver Microsomes.
- P45-Mo** Fedurcová A., Lehotay J. (Bratislava, Slovakia)
Enantiomerization of Analyte During HPLC Separation.
- P46-Mo** Meričko D., Lehotay J., Skačáni I., Armstrong D.W. (Bratislava, Slovakia; Ames, IA, USA)
Thermodynamic Studies of Separation of Chiral Sulfoxides by HPLC Using Chiral Stationary Phase.

- P47-Mo** Rojkovičová T., Lehotay J., Armstrong D.W., Čižmárik J. (Bratislava, Slovakia; Ames, IA, USA)
Effect of Temperature on the Separation of Some Enantiomers of Phenylcarbamic Acid Derivatives by HPLC Using Macrocyclic Glycopeptide CSPs.
- P48-Mo** Vinković V., Litvić M., Vukmanović K. (Zagreb, Croatia)
Analysis of Several 1,4-dihidropyridine Drugs by Enantioselective Liquid Chromatography.
- P49-Mo** Babú Y.N., Szotáková B., Skálová L., Wsól V. (Hradec Králové, Czech Republic)
Biotransformation of NSAID Flobufen in Rat – Conjugation with Taurin.
- P50-Mo** Cabálková J., Chmelík J. (Brno, Czech Republic)
Seasonal Fluctuations of Soluble Carbohydrates in Norway Spruce Needles Exposed to Elevated Carbon Dioxide using HPLC.
- P51-Mo** Gadzała-Kopciuch R., Berecka B., Buszewski B. (Toruń, Poland)
Measurement of 4-Nonylphenol in the Environmental Samples Using Chromatographic Techniques.
- P52-Mo** Kaleta A., Buchberger W., Ferdig M. (Linz, Austria)
Determination of Ecstasy and Amphetamine Residues in Sewage and Surface Water.
- P53-Mo** Kovačič N., Zupančič-Kralj L. (Velenje, Slovenia)
Determination of Triazines and Atrazine Metabolites in Soil.
- P54-Mo** Kremer E., Zygmunt B. (Gdańsk, Poland)
Extraction of Phenolic Herbicides from Soil by Means of ASE.
- P55-Mo** Krupczyńska K., Rychlicki G., Buszewski B. (Toruń, Poland)
Fullerenes as Specific Test Analytes for HPLC Columns Evaluation.
- P56-Mo** Marczak M., Wolska L., Namieśnik J. (Gdańsk, Poland)
The Attempt to Identify Natural Sources of Toluene in Benthic Sediments and Sewage Sludge.
- P57-Mo** Partyka M., Zabiegała B., Namieśnik J. (Gdańsk, Poland)
Permeation Passive Samplers & Indoor Air Quality Control.
- P58-Mo** Rashidzadeh S., Eynollahi S., Faraji H. (Varamin, Iran)
Determination of Polyaromatic Hydrocarbons from Aqueous Sample by Solid Phase Microextraction with Polypyrrole Coated Fiber.
- P59-Mo** Russ A., Berek D. (Bratislava, Slovakia)
Sample Recovery Problems in Eluent Gradient Chromatography of Synthetic Polymers.

- P60-Mo** Skarżyńska K., Polkowska Ż., Namieśnik J. (Gdańsk, Poland)
Samples Handling and Determination of Physico-chemical Parameters in Runoff Water Samples.
- P61-Mo** Škrobonja L., Tomić T., Šegudović N. (Kostrena, Croatia; Zagreb, Croatia)
Chromatographic Characterization of Diesel Fuel Blending Components.
- P62-Mo** Michulec M., Wardencki W. (Gdańsk, Poland)
Selected Aspects of Chromatographic Solvents Residues Determination Using HS, SPME and SDE Techniques for Isolation and Preconcentration of Analytes.
- P63-Mo** Mazanec K., Šlais K., Šťastná M., Chmelík J. (Brno, Czech Republic)
Study of Low-Molecular pI Markers by Combination of Gel/Capillary IEF with MALDI-TOF MS in Proteomics.
- P64-Mo** Srbek J., Eickhoff J., Müller P., Effelsberg U., van de Goor T., Coufal P., Kraiczek K. (Praha, Czech Republic; Waldbronn, Germany)
Protein Identification by NanoLC-MS Using a Novel Polymer Microfluidic Device.
- P65-Mo** Medić-Šarić M., Mornar A., Jasprica I. (Zagreb, Croatia)
Lipophilicity Characterization of Flavonoids by Reversed-Phase High Performance Liquid Chromatography.
- P66-Mo** Soukupová K., Kodeš J., Suchánková J., Tesařová E. (Praha, Czech Republic)
New Reversed Stationary Phases and Their Use for Separation of Biologically Active Peptides.
- P67-Mo** Mrkvičková Z., Klimeš J., Kastner P., Doležal M. (Hradec Králové, Czech Republic)
Lipophilicity Determination in Series of Potential Antituberculous Compounds by RP-HPLC.
- P68-Mo** Cacciola F., Jandera P., Blahová E., Mondello L. (Pardubice, Czech Republic; Messina, Italy)
Characterization of Silica and Zirconia-Based Columns as Potential Stationary Phases for the Separation of Antioxidants.
- P69-Mo** Sakalis A., Vaněrková D., Holčapek M., Jandera P., Voulgaropoulos A. (Xanthi, Greece; Pardubice, Czech Republic)
Electrochemical Degradation of Azodyes and HPLC-PDA-MS Analysis of Their Degradation Products.
- P70-Mo** Vaněrková D., Holčapek M., Jandera P., Sakalis A., Voulgaropoulos A. (Pardubice, Czech Republic; Thessaloniki, Greece)
LC Behaviour of Sulphonated Azo Dyes and Possibilities for HPLC/ESI-MS/MS Monitoring of Their Degradation Products.

- P71-Mo** Welerowicz T., Jandera P., Buszewski B. (Toruń, Poland; Pardubice Czech Republic)
Application of Stationary Phases Based on Zirconia Oxide Supports in High-Temperature Liquid Chromatography of Polymers.
- P72-Mo** Russ A., Berek D. (Bratislava, Slovakia)
Enthalpy Assisted Size Exclusion Chromatography. 2. Adsorption Retention Mechanism.
- P73-Mo** Volná K., Holčápek M. (Pardubice, Czech Republic)
Structural Elucidation of Ionic Dyes Using HPLC/ESI-MS/MS.
- P74-Mo** Planeta J., Karásek P., Roth M. (Brno, Czech Republic)
Supercritical Fluid Chromatography with Ionic Liquid Stationary Phases: Practical Experience with Determination of Analyte Distribution Constants.
- P75-Mo** Polkowska Ż., Skarżyńska K., Namieśnik J. (Gdańsk, Poland)
HCHO in Various Forms of Atmospheric Precipitation.
- P76-Mo** Srinivasan G., Kailasam K., Balasubramanian P., Müller K. (Stuttgart, Germany)
FTIR and Solid State NMR Studies of Alkyl Modified Silica Gels.
- P77-Mo** Góra R., Hutta M. (Bratislava, Slovakia)
Reversed-phase Liquid Chromatographic Characterization and Analysis of Air Particulates Humic (-like) Substances in Presence of Pollens.
- P78-Mo** Hutta M., Halko R., Chalányová M., Góra R., Rybár I., Pajchl M., Dokupilová S. (Bratislava, Slovakia)
Determination of Selected Group of Pesticides in Soil Samples by RP-HPLC Method.
- P79-Mo** Hutta M., Chalányová M., Halko R., Góra R., Rybár I., Pajchl M., Dokupilová S. (Bratislava, Slovakia)
New Approach to Large-volume Injection in RP-HPLC Method Exemplified on Determination of Atrazine and Hydroxyatrazine in Soil Samples.
- P80-Mo** Chalányová M., Hajdú Z., Hutta M., Góra R., Mamrošová M. (Bratislava, Slovakia)
RP-HPLC Analysis of Selected Pyrethroid Insecticides in an Indoor Environment.
- P81-Mo** Mamrošová M., Ondrejášová B., Hutta M. (Bratislava, Slovakia)
Analysis of Basic Substances by Off-line Combinations of HPLC and CE Methods – Study of Selectivity and Orthogonality.
- P82-Mo** Rybár I., Góra R., Hutta M., Chalányová M., Halko R. (Bratislava, Slovakia)
Large-volume Injection RP-HPLC Analysis of Chiral Pesticides Directly Extracted from Slovak Soils.

- P83-Mo** Žagar E., Žigon M., Podzimek S. (Ljubljana, Slovenia)
SEC-MALS and NMR Characterization of Commercial Aliphatic Hyperbranched Polyesters.
- P84-Mo** Guryča V., Novotný M.V., Palm A.K., Michálek J., Pacáková V. (Praha, Czech Republic)
Improved Polyacrylamide Matrixes for Separation of Branched Glycans – Structural and Chromatographic Features.
- P85-Mo** van der Horst A., Oude Louis P.A.M., Schel B.H., Schotman A.H.M., Schoenmakers P.J. (Amsterdam, The Netherlands)
Determining Absolute Molecular Weights of Polyaramides Using Size-Exclusion Chromatography with Light-Scattering Detection.
- P86-Mo** Chalányová M., Paulechová M. (Bratislava, Slovakia)
RP-HPLC Analysis of Soil Sample Using Large Volume Injection.
- P87-Mo** Halko R., Padrón Sanz C., Sosa Ferrera Z., Santana Rodríguez J.J. (Bratislava, Slovakia)
Microwave-assisted Micellar Extraction and Cloud-point Extraction of Benzimidazole Fungicides in Environmental Samples.
- P88-Mo** Kohl L. (Praha, Czech Republic)
Determination of Organomercury Compounds by Gas Chromatography-Mass Spectrometry.
- P89-Mo** Novotná A., Zusková I., Včeláková K., Gaš B. (Praha, Czech Republic)
Common Amino Acids – Limiting Mobilities and Dissociation Constants of their Cationic Forms.
- P90-Mo** Mikelová R., Petřlová J., Babula P., Adam V., Trnková L., Horna A., Kizek R. (Brno, Czech Republic; Pardubice, Czech Republic)
An Using of Glassy Carbon Electrode in Connection with Liquid Chromatography for Determination of Silver.
- P91-Mo** Grynbaum M.D., Hentschel P., Molnar P., Putzbach K., Rehbein J., Albert K. (Tübingen, Germany)
Structure Elucidation of (All-E) Anhydrolutein I and the Main (Z)-Isomers by On-line Capillary HPLC-MS and Capillary HPLC 1H-NMR.
- P92-Mo** Rehbein J.H.G., Henschel P., Grynbaum M.D., Putzbach K., Albert K. (Tübingen, Germany)
Extraction and Determination of the Carotenoid Bixin in Annatto Seeds Using On-line Coupling of Capillary HPLC with 1H NMR Spectroscopy.

P93-Mo Benická E., Benisková Z., Krupčík J. (Bratislava, Slovakia)
Fast GC Analysis of Narrow Boiling Range Samples on Various Capillary Columns: The Optimisation of Signal Acquisition and Quantitation.

P94-Mo Benická E., Krupčík J. (Bratislava, Slovakia)
Analysis of Wide Boiling Range Hydrocarbon Samples by Gas Chromatography on Narrow Bore Columns.

Poster session 2 –Tuesday 13th September

P1-Tu Mikelová R., Stejskal K., Kleckerová A., Zítka O., Petřek J., Havel L., Zehnálek J., Adam V., Potěšil D., Trnková L., Babula P., Kizek R. (Brno, Czech Republic)
Analysis of Thiol Compounds by Liquid Chromatography with Electrochemical Detection.

P2-Tu Beldean-Galea M.S., Mocan A. (Cluj-Napoca, Romania)
Use of Porous Polymers for Solid Phase Extraction of Tocopherols from Edible Oils.

P3-Tu Bortolotti F., De Paoli G., Pascali J.P., Gottardo R. (Verona, Italy)
Analysis of Carbohydrate Deficient Transferrin: HPLC vs Capillary Electrophoresis.

P4-Tu Brne P., Peterka M., Podgornik A., Štrancar A., Kalin N., Benčina K., Gabor B. (Ljubljana, Slovenia)
In a Minute Separation of IgM from IgG and Human Serum Albumin in Human Serum Using CIM Monolithic Columns.

P5-Tu Březinová L., Slanina J., Vlašínová H. (Brno, Czech Republic)
Solid Phase Extraction Followed by High Performance Liquid Chromatography for the Determination of Bioactive Lignans in Schizandra Chinensis in Vitro Cultures.

P6-Tu Budilová J., Pazourek J., Havel J. (Brno, Czech Republic)
Large Volume Dosing in Carrier Ampholyte-Free Isoelectric Focusing of Proteins with Off-Line Detection of Fractions.

P7-Tu Frýdlová J., Kučerová Z., Tichá M. (Praha, Czech Republic)
Affinity Chromatography of Human Pepsinogens Using N-Acetyl-L-Phenylalanine as a Ligand.

- P8-Tu** Potěšil D., Mikelová R., Petřek J., Petrlová J., Adam V., Víteček J., Zehnálek J., Havel L., Trnková L., Kizek R. (Brno, Czech Republic)
Liquid Chromatography with Electrochemical Detection as A New Tool for the Separation and Quantification of Salicylic Acid and Its Derivates in Biological Samples.
- P9-Tu** Kaźmierczak D., Ciesielski W., Zakrzewski R. (Łódź, Poland)
Application of Iodine-Azide Reaction for Detection of Biogenic Amines in Thin-Layer Chromatography.
- P10- Tu** Koval D., Kašička V., Jiráček J., Collinsová M. (Praha, Czech Republic)
Determination of Dissociation Constants of Phosphinic Pseudopeptides by Capillary Zone Electrophoresis.
- P11-Tu** Kuldvee R., Wiedmer S.K., Öörni K., Riekkola M.-L. (Helsinki, Finland)
Human Low Density Lipoprotein Coated Capillaries in Electrochromatography.
- P12-Tu** Seménková H., Horák P., Maděra M., Tichá M., Vařilová T., Vránková A., Pacáková V., Bosáková Z., Štulík K. (Praha, Czech Republic)
Affinity HPLC and CE of Seminal Plasma Proteins.
- P13-Tu** Pilařová P., Hlaváčková L., Klimeš J. (Hradec Králové, Czech Republic)
Determination of Amphetamines by HPLC with Fluorescence Detection.
- P14-Tu** Příkrýl P., Horák D., Kučerová Z. (Praha, Czech Republic)
Magnetic IDA-modified Poly(glycidyl methacrylate) Microspheres for IMAC Phosphoprotein Purification.
- P15-Tu** Sedláková P., Svobodová J., Mikšík I. (Praha, Czech Republic)
2D Capillary Electrophoresis of Proteins Using Plug of Gel.
- P16-Tu** Slováková M., Peyrin J.-M., Le Nel A., Minc A., Taverna M., Bílková Z., Viovy J.-L. (Pardubice, Czech Republic; Paris, France)
Magnetic Enzyme Reactor with Proteinase K Prepared for Prion Protein Digestion.
- P17-Tu** Šolínová V., Kašička V., Koval D., Česnek M., Holý A. (Praha, Czech Republic)
Determination of Acid-Base Dissociation Constants of Guanidinopurine Nucleosides and Their Analogs by Capillary Electrophoresis.
- P18-Tu** Spanilá M., Pazourek J., Havel J. (Brno, Czech Republic)
Studies of Proteins Adsorption in Polyethyleneimine Coated Capillaries in Capillary Zone Electrophoresis.
- P19-Tu** Šalplachta J., Chmelík J. (Brno, Czech Republic)
Identification of Celiac-Related Proteins by Combination of Separation Techniques and Mass Spectrometry.

- P20-Tu** **Bobáľová J., Šalplachta J., Chmelík J.** (Brno, Czech Republic)
Determination of Barley Proteins by Combination of Separation Methods and MALDI-TOF-TOF.
- P21-Tu** **Korecká L., Křenková J., Slováková M., Minc N., Viovy J.-L., Bílková Z.**
(Pardubice, Czech Republic; Paris, France)
Chip-Based Magnetic Separation Technique with Immobilized Trypsin and Anhydrotrypsin for Isolation of Specific Peptides of Neurotensin.
- P22-Tu** **Ben Hamed A., Gajdošová D., Havel J.** (Brno, Czech Republic)
Analysis of *Salvia officinalis* Plant Extracts by Capillary Electrophoresis.
- P23-Tu** **Dawidowicz A.L., Wianowska D., Waksmundzka-Hajnos M., Dragan A.**
(Lublin, Poland)
PLE as a Sample Preparation Method for HPLC Analysis of Furanocoumarins from *Archangelica officinalis Hoffm.*
- P24-Tu** **Karasová G., Lehotay J., Sádecká J., Skačáni I.** (Bratislava, Slovakia)
The Use of Molecularly Imprinted Polymer for Sample Preparation Before HPLC Analysis of Some Phenolic Acids in Medicine Herb.
- P25-Tu** **Khajeh M., Yamini Y., Ghasemi E.** (Tehran, Iran)
Comparison of Essential Oil Composition of *Salvia mirzayanii* Obtained by Supercritical Fluid Extraction and Hydrodistillation Methods.
- P26-Tu** **Pasáková I., Sochor J., Klimeš J., Hrabálek A.** (Hradec Králové, Czech Republic)
Pharmaceutico-Analytical Study of Modulator of Transdermal Penetration Using Liquid Chromatography.
- P27-Tu** **Skidmore M.A., Romain J., Turnbull J.E., Yates E.A.** (Liverpool, England)
Improved Separation of the Pharmaceutically Important Glycan Heparan Sulfate.
- P28-Tu** **Žižkovský V., Kučera R., Jedlička A., Klimeš J.** (Hradec Králové, Czech Republic)
HPLC Assay of Vitamin Complex in Pharmaceutical Preparation.
- P29-Tu** **Bednář P., Papoušková B., Balcárková A., Müller L., Barták P., Lemr K.**
(Olomouc, Czech Republic)
Combination of Microseparation Techniques with Mass Spectrometry for Analysis of Anthocyanin Dyes.
- P30-Tu** **Bíba B., Cvak L., Kvasnička F.** (Opava, Czech Republic)
Chiral Electrophoresis of Semisynthetic Ergot Alkaloids.

- P31-Tu** **Lasáková M., Tegou A., Giantsiou N., Škeříková V., Jandera P., Theodoridis G.** (Thessaloniki, Greece; Pardubice, Czech Republic)
Molecularly Imprinted Polymers for the Solid Phase Extraction and HPLC Determination of Flavonoids in Wines, Juice and Tea.
- P32-Tu** **Klimánková K., Hamerníková M., Friedecký D.** (Hradec Králové, Czech Republic)
CE Determination of 6-sulfatoxymelatonin.
- P33-Tu** **Kočí R., Márová I., Macuchová S., Mikulcová A., Ptáček P., Hrdličková J.** (Brno, Czech Republic)
Isolation of Flavonoids from Several Biologic Materials and Their Analysis by LC/MS.
- P34-Tu** **Petruczynik A., Waksmundzka-Hajnos M.** (Lublin, Poland)
Retention Behaviour of Selected Alkaloids on C18 and Phenyl Stationary Phases by HPLC.
- P35-Tu** **Sázelová P., Kašička V., Koval D., Šolínová V.** (Praha, Czech Republic)
Determination of Purity Degree and Counter-Ion Content in Lecirelin by Capillary Zone Electrophoresis and Isotachopheresis.
- P36-Tu** **Suchomelová J., Bochořáková H., Táborská E.** (Brno, Czech Republic)
HPLC Method for Analysis of Selected Groups of Isoquinoline Alkaloids.
- P37-Tu** **Wianowska D., Dawidowicz A.L., Smolarz D.** (Lublin, Poland)
PLE Process and HPLC Analysis of Antraquinones from Rumex Crispus L.
- P38-Tu** **Hájek T., Škeříková V., Jandera P., Horna A.** (Pardubice, Czech Republic)
Analysis of Natural Phenolic Compounds Using CoulArray Detector.
- P39-Tu** **Hajnos M.L., Głowniak-Lipa A., Mardarowicz M., Głowniak K.** (Lublin, Poland)
GC-MS of Essential Oils from Taxus Species.
- P40-Tu** **Lísa M., Holčapek M.** (Pardubice, Czech Republic)
Quantification of Triacylglycerols in Plant Oils Using HPLC/APCI-MS.
- P41-Tu** **Curyło J., Wardencki W.** (Gdańsk, Poland)
Single Drop Extraction (SDE) Technique for Determination of Carbonyl Compounds in Spirits Products after Derivatization with PentaFluoroBenzyloHydroxyloamine (PFBHA).
- P42-Tu** **Gajdošová D., Blechová P., Havlová P., Havel J.** (Brno, Czech Republic)
High Performance Liquid Chromatography and Capillary Electrophoresis of Trichothecen Mycotoxins in Barley and Malt.

- P43-Tu** Hercegová A., Kružlicová D., Matisová E. (Bratislava, Slovakia)
Search on Analytical Methods of Pesticides Determination in Fruit.
- P44-Tu** Kosubová P., Tieffová P. (Brno, Czech Republic)
GC-MS/MS Determination of POP CISTA Monitoring Programme of Feedingstuff.
- P45-Tu** Kukurová K., Karovičová J., Kohajdová Z., Greif G., Špánik I. (Bratislava, Slovakia)
Determination of Hydroxymethylfurfural in Honey by HPLC.
- P46-Tu** Kusznierewicz B., Wolska L., Bartoszek A., Namieśnik J. (Gdańsk, Poland)
The Attempt of Isolation of Antioxidative Compounds in Cabbage.
- P47-Tu** Lai S.-M., Chang C.-W. (Touliu, Yunlin County, Taiwan)
Preparative Isolation and Separation of Gamma-Oryzanol and Phytosterols from Rice Bran by Column Chromatography.
- P48-Tu** Laštovičková M., Bezouška K., Chmelík J. (Brno, Czech Republic)
The Combination of Different Separation Techniques and MALDI Mass Spectrometry for the Characterization of Glycoproteins Isolated from Barley Grains.
- P49-Tu** Loupancová B., Vítová E., Hrozová L., Fišera M. (Brno, Czech Republic)
Determination of Fatty Acids in Processed Cheese by Gas Chromatography.
- P50-Tu** Ouzká Š., Bílková Z., Křenková J., Královský J. (Pardubice, Czech Republic)
Optimization of Epitope Extraction Technique for Epitope Mapping of Food Allergen.
- P51-Tu** Ryvolová M., Táborský P., Havel J., Preisler J. (Brno, Czech Republic)
Sensitive Determination of Food Colorant Erythrosine and Other Xanthene Dyes by CE-LIF.
- P52-Tu** Schulzová V., Botek P., Hajšlová J. (Praha, Czech Republic)
LC-MS/MS Determination of Potato and Tomato Glycoalkaloids.
- P53-Tu** Vítová E., Loupancová B., Hradilová J., Bezděková Š., Zemanová J. (Brno, Czech Republic)
Aroma Compounds of White Surface Mould Cheeses.
- P54-Tu** Březková M., Čáslavská J., Thormann W., Křivánková L. (Brno, Czech Republic)
Effect of Lactate on Determination of Ethylglucuronide as a Marker of Alcohol Consumption in Serum Samples by Capillary Zone Electrophoresis.

- P55-Tu** Císař P., Nobilis M., Klimeš J. (Hradec Králové, Czech Republic)
Comparison of Different Stationary Phases for the Analysis of Potential Antineoplastic.
- P56-Tu** Dawidowicz A.L., Kalitynski R. (Lublin, Poland)
Effect of Blood Sample Handling and Infusion Fluids on Unbound Drug Concentration Determined by HPLC.
- P57-Tu** Faraji H., Rashidzadeh S. (Varamin, Iran)
Measurement of Amphetamine and Metamphetamine in Nail by Solid Phase Microextraction and Gas Chromatography – Mass Spectrometry.
- P58-Tu** Humplíková S., Voříšek V., Minař J., Kučerová M., Radina M. (Nový Jičín, Czech Republic)
Multi Screening for Cannabinoids in Urine.
- P59-Tu** Dawidowicz A.L., Kobielski M., Kalitynski R. (Lublin, Poland)
Application of Sorption Method to the Chromatographic Analysis of Free Drug Concentration.
- P60-Tu** Igličar P., Kocijan A., Kocjan D., Preželj A., Urleb U., Šolmajer T. (Ljubljana, Slovenia)
Identification of Degradation Products of Novel β -lactamase Inhibitor in Water Solution at Different pH Using HPLC-MS.
- P61-Tu** Ježová J., Horynová M., Šuláková R., Bílková Z. (Pardubice, Czech Republic)
Design and Characterization of Immobilized Laccase.
- P62-Tu** Sisák J., Talian I., Oriňák A. (Košice, Slovakia)
Recent Status in Pyrolysis Gas Chromatography of Nitrogen and Sulphur Containing Compounds.
- P63-Tu** Kalusová R., Holčapek M., Mrkvicová M., Nehybová Z. (Brno, Czech Republic)
Determination of Mycotoxins Using LC/MS/MS Technique.
- P64-Tu** Kłodzińska E., Azarczyk K., Buszewski B. (Toruń, Poland)
Identification of Bacteria in Biological Samples by Capillary Zone Electrophoresis.
- P65-Tu** Kochana J., Zakrzewska A., Sokal K., Parczewski A., Swist M., Wilamowski J. (Krakow, Poland)
SPE/TLC and SPE/GC/MS Profiling of Impurities of MDMA. Examination of the Influence of a Drug Agglutinant.

- P66-Tu** Kovaříková P., Mokrý M., Klimeš J. (Hradec Králové, Czech Republic)
Simultaneous Chromatographic Determination of Isoniazid, Its Known Metabolite Acetylisoniazid and a Putative Metabolite Pyridoxal Isonicotinoyl Hydrazone in Plasma.
- P67-Tu** Kozłowska K., Polkowska Ż., Namieśnik J. (Gdańsk, Poland)
Application of the Thin Layer Headspace Technique Samples (TLHS) for the Determination of Volatile Organohalogen Compounds in Human Urine and Blood.
- P68-Tu** Link M., Hakala K.S., Szotáková B., Skálová L., Wsól V., Ketola R.A., Kostianen R. (Hradec Králové, Czech Republic; Helsinki, Finland)
Liquid Chromatography-Mass Spectrometry Study of Sibutramine Metabolites in Human Urine.
- P69-Tu** Maláková J., Nobilis M., Svoboda Z., Lísa M., Holčapek M., Květina J., Palička V. (Hradec Králové, Czech Republic; Pardubice, Czech Republic)
High-performance Liquid Chromatographic Method with Fluorescence and Mass Spectrometric Detections for Simultaneous Determination of Galantamine and Its Phase I Metabolites in Biological Samples.
- P70-Tu** Márová I., Kočí R., Kubešová J., Drábková M., Hrdličková J. (Brno, Czech Republic)
Separation and Analysis of Lipidic Substances in Subcellular Structures of Carotenogenic Microorganisms.
- P71-Tu** Šatínský D., Sadílek P., Ořapka M., Urbánek L., Sladkovský R. (Hradec Králové, Czech Republic)
Simple Determination of Vitamins A and E in Human Plasma by Column-Switching High-Performance Liquid chromatography.
- P72-Tu** Meleh M., Požlep B., Mlakar A., Zupančič-Kralj L. (Novo Mesto, Slovenija)
Determination of Lysophosphatidic Acid (LPA) in Serum Samples by LC-ESI Mass Spectrometry.
- P73-Tu** Nobilis M., Kubant P., Lísa M., Holčapek M., Lamka J., Szotáková B., Skálová L. (Hradec Králové, Czech Republic; Pardubice, Czech Republic)
Disposition Studies of Anthelmintic Flubendazole in Pigs and Pheasants Using HPLC-PDA-MS.
- P74-Tu** Novotná L., Hrubý M., Beneš M.J., Kučerová Z. (Praha, Czech Republic)
Phosphate Mediated Sorption of Porcine Pepsin in IMAC.
- P75-Tu** Świst M., Kochana J., Wilamowski J., Parczewski A. (Krakow, Poland)
The Role of Route Specific Impurities and Their Diastereoisomers in Ecstasy Profiling.
- P76-Tu** Těšínská I., Rittich B., Španová A., Bartoš M. (Brno, Czech Republic)
Isolation of PCR-ready DNA from Mycobacterial Cells Using Magnetic Particles.

- P77-Tu** Theodoridis G., Alexiadou E., Raikos N., Tsoukali H., Argyriadou H., Parlapani-Kelepouri A. (Thessaloniki, Greece)
Analysis of Anesthetics in Human Urine by Head Solid Microextraction Gas Chromatography.
- P78-Tu** Walczak M., Bieńkowski T., Szymura-Oleksiak J., Jezierska E., Pękala E., Kieć-Kononowicz K. (Krakow, Poland)
Use of Liquid Chromatography – Tandem Mass Spectrometry Method for the Analysis of Propentofylline and Its Metabolite in Rat Serum, Cortex and Hippocamp Tissue.
- P79-Tu** Zakrzewski R., Ciesielski C., Kaźmierczak D. (Łódź, Poland)
Determination of Thiopental in Urine by HPLC Using Iodine-Azide Postcolumn Reaction.
- P80-Tu** Zatloukalová E., Kučerová Z. (Praha, Czech Republic)
Immunoaffinity Carrier Prepared by Immobilization of Antibody via Co(III) Chelate.
- P81-Tu** Zerzaňová A., Kastner P., Klimeš J. (Hradec Králové, Czech Republic)
Novel Approach for Drug Detection Using HPLC Coupled with Electrochemical Detector.
- P82-Tu** Zuba D. (Krakow, Poland).
Identification of Active Compounds of Drugs Used in Erectile Dysfunction.
- P83-Tu** Mikulíková K., Eckhardt A., Mikšík I. (Praha, Czech Republic)
Analysis of Collagen Modifications by HPLC/CE.
- P84-Tu** Herrmannová M., Krivánková L., Vytřas K. (Pardubice, Czech Republic)
Determination of Sweeteners by Capillary Isotachophoresis in Real Matrices.
- P85-Tu** Gričar M., Žagar E., Kržan A., Žigon M. (Ljubljana, Slovenia)
Comparison of SEC and SEC-MALS Results of Copolymers of Aspartic Acid and Lactide.
- P86-Tu** Sklenářová H., Sladkovský R., Matysová L., Hájková R., Švecová P., Šícha J. (Hradec Králové, Czech Republic)
HPLC Method for Determination of Clotrimazole and two Degradation Products in Spray Solution.
- P87-Tu** Kubant P., Nobilis M., Květina J. (Hradec Králové, Czech Republic)
HPLC Determination of Indapamide in Human Whole Blood.
- P88-Tu** Kučerová Z. (Praha, Czech Republic)
Thiophilic Chromatography and its Application for Purification of Antibodies of the Presentation.

- P89-Tu** **Vybíralová Z., Nobilis M., Lída M., Kolářová L., Holčapek M., Květina J.**
(Hradec Králové, Czech Republic; Pardubice, Czech Republic)
Application of Various Derivatization Methods in the HPLC Determination of ACE Inhibitor Enalapril and Its Metabolite Enalaprilat.
- P90-Tu** **Mikulčíková P., Ventura K.** (Pardubice, Czech Republic)
Analytical and Pre-Separation Techniques for the Identification and Quantitation of Physiologically Important Steroids.
- P91-Tu** **Hentschel P., Putzbach K., Grynbaum M.D., Pelz A., Albert K., Götz F.**
(Tübingen, Germany)
Isolation and Structure Elucidation of Staphyloxanthin from Staphylococcus Aureus.
- P92-Tu** **Havlíčková L., Husová B., Příkryl P., Kubinec R., Pacáková V., Hradilová J., Štulík K.** (Praha, Czech Republic)
An Evaluation of Some Chromatographic Methods Used for Analysis of Protein and Oil Binding Media in Paintings.
- P93-Tu** **Kubáň P., Štěrbová D., Kubáň V.** (Brno, Czech Republic)
Separation of Phenolic Acids by Capillary Electrophoresis with Indirect Contactless Conductometric Detection.
- P94-Tu** **Draghici C., Sica M., Billiet H., van Dam J., van Dedem G., Coman G., Badea M., Gocan S.** (Brasov, Romania)
Nucleotides Separation by Capillary Zone Electrophoresis.

Social Programme

Sunday 11th, 19:00 – 21:00

Welcome reception, conference site “Aula Arnošta z Pardubic”.

Tuesday 13th, 20:00 – 23:00

Reception at the Pardubice castle.

Wednesday 14th, 13:30 – 19:00

Post-congress excursion to Kutná Hora, interested participants should register at the registration desk till Monday 12th, 16:00 at the latest.

