

Final Program

7th BALATON SYMPOSIUM

ON HIGH-PERFORMANCE SEPARATION METHODS

In Memoriam Szabolcs Nyiredy



September 5-7, 2007
Hotel Azúr^{****}, Siófok, Hungary

Hungarian Society for Separation Sciences



The Symposium is organized under the auspices of the
Hungarian Academy of Sciences



and
European Society for Separation Sciences



and supported by the
Central European Group for Separation Sciences





Dear Participants, Dear Friends,

The 7th *Balaton Symposium on High-Performance Separation Methods – In memoriam Szabolcs Nyiredy* is a special event which offers an extraordinary occasion for the participants to meet leading scientists and learn of new directions in various analytical, preparative and industrial separation methods and techniques and to honor the contributions of Professor Szabolcs Nyiredy, an internationally acclaimed scientist in the area of separation sciences.

This Memorial Symposium provides an opportunity for colleagues and friends to honor and celebrate Professor Nyiredy's life and work.

The Symposium will focus on the new developments in pharmaceutical, environmental, biomedical, forensic, and industrial separation methods. Further on, it will be devoted also to research papers on different fields of planar chromatography, on all kinds of stationary phases and on various modes of migration of the mobile phase. In this context, the Symposium will place emphasis on new developments in pharmaceutical, environmental, biomedical, forensic, industrial, and hyphenated techniques (MS, NMR), bioanalytical, radioanalytical, TLC/Planar separation methods; sample preparation and new column technology will also be presented.

The Book of Abstracts provides an up-to-date overview on a broad spectrum of all aspects of separation science in the 21st century and is a compilation of the most recent progress in the world.

The venue of the Symposium, the city of Siófok on the shore of Balaton, Central Europe's largest lake, offers a pleasant atmosphere which will certainly assure the environment where personal contacts can develop in a friendly manner.

The present Symposium is the seventh in a continuing series that will regularly take stock of research in separation sciences, point out perspectives for the future and bring together experts from all over the world. Step by step the number of participants has increased and today the Balaton Symposium became internationally recognized. The 7th Balaton Symposium includes 52 oral and 145 poster presentations with 395 registered delegates from 23 countries.

We would like to express our sincere gratitude to all the lecturers who have decided to come to Siófok to debate the newest results of this important discipline. Our thanks go to all the sponsors and exhibitors who have contributed in many ways to the success of the Symposium.

Finally, we would like to acknowledge the activity of members of the Scientific Committee and of all people participating in the organization, particularly many thanks to Zsuzsanna Ábrám, for the administration, to Ádám Z. Dávid Ph.D. for tailoring the papers and to Balázs Baksa (Albafilm Ltd., Kecskemét, Hungary) for the graphic design of appearance.

We wish all participants an enriching stay in Siófok benefiting from both our beautiful milieu and the exciting science that will be presented.

A handwritten signature in blue ink, which appears to read "Imre Klebovich".

Prof. Imre Klebovich
Symposium Chairman

Symposium Chairman

Imre Klebovich, Budapest, Hungary
klebovich@hogyes.sote.hu

Honorary Chairman

L. Szepesy, Budapest, Hungary

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Awards

The **Halász Medal Award** (founded by the Hungarian Society for Separation Sciences in 1997) as well as the **Csaba Horváth Memorial Award** (founded by the Hungarian Society for Separation Sciences in 2004) will be presented during the Symposium. The Awards have been assessed by the Award Committees:

Halász Medal Award Committee

G. Bonn, Innsbruck, A
H. Engelhardt, Saarbrücken, D
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Á. Halász, Saarbrücken, D
B.L. Karger, Boston, MA, USA
I. Klebovich, Budapest, H
U.D. Neue, Milford, MA, USA
L. Szepesy, Budapest, H

Csaba Horváth Memorial Award Committee

J. Frenz, Louisville, CO, USA
T. Horváth, Budapest, H
I. Klebovich, Budapest, H
I. Molnár, Berlin, D
L. Szepesy, Budapest, H

Symposium Secretariat

Hungarian Society for Separation Sciences (HSSS)

c/o: Semmelweis University
Department of Pharmaceutics
H-1092 Budapest, Hőgyes E. St. 7.
Hungary

Zsuzsanna Ábrám
Symposium Secretary

E-mail: abram@hogyes.sote.hu
Phone/Fax: +36 1 217 0914
www.mett.hu

The Organising Committee of the 7th Balaton Symposium acknowledges with gratitude the support of the following associations and companies:

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Welcome to the 7th Balaton Symposium

Welcome to the 7th Balaton Symposium on High-Performance Separation Methods! The Organizing Committee is delighted to welcome you to this international event, in the center of Europe.

Lake Balaton is the largest lake in Central Europe. Since Hungary is landlocked, Balaton is sometimes called the „Hungarian Sea“. The Zala River provides the largest inflow of water to the lake, and the canalized Sió is the only outflow.

Balaton has a surface area of 592 km² and a length of 77 km, a width ranging from 4 to 14 km. The lake's surface is 104 m above sea level, and its depth varies up to 12.2 m (mean depth is 3.2 m).

The Romans called the lake Lacus Pelso, that is to say shallow lake in Latin. Germanic peoples that have been living in the area through the centuries called it Plattensee, with the same meaning as in Latin. The Hungarian name Balaton might derive from these words, but it has no concrete meaning today like in other languages. Slavic peoples living in the area in the early Middle Ages called Balaton „muddy lake“ („blato“ means „mud“).

High tourist season extends from June until the end of August. The average water temperature during the summer is 25 °C, which makes bathing and swimming very enjoyable. Other tourist attractions include sailing, fishing and other water sports as well as visiting the countryside and hills; wineries on the north coast and nightlife on the south. The Tihany Peninsula is a historical district.

Although the peak season at the lake is summer, the lovers of Balaton think that it is also worth visiting the huge lake in winter, when you can go fishing in the ice-holes, or if the ice is thick enough, brave visitors can even skate, sledge or ice-sail on the lake.

Balaton is served by Sármellék International Airport. There are scheduled flights from Berlin, Stuttgart, Copenhagen, Zürich and London Stansted. The distance between the Budapest-Ferihegy International Airport and Siófok is 130 km only by the highway M7. Since we expect about 400 participants, we hope you will find the 7th Balaton Symposium a stimulating opportunity for meeting colleagues and friends, old and new, and that you return home with pleasant memories of Hungary.

Scope of the Symposium

The focus of the 7th Balaton Symposium will be on the various analytical, preparative and industrial separation methods and techniques. The Symposium will place special emphasis on new developments in pharmaceutical, environmental, biomedical, forensic, and industrial separation methods. Further on, it will be devoted also to research papers on different fields of planar chromatography, on all kinds of stationary phases and on various modes of migration of the mobile phase. In this context, the Symposium will place emphasis on new developments in pharmaceutical, environmental, biomedical, forensic, industrial, and hyphenated techniques (MS, NMR), bioanalytical, radioanalytical, TLC/planar separation methods; sample preparation and new column technology will also be presented. The discussion forum invites scientists from all over the world to a pleasant atmosphere on the shore of Central Europe's largest lake.

General Information

Venue	Hotel Azúr**** Wellness & Conference Centre H-8600 Siófok, Erkel F. St. 2/c., Hungary Phone: +36 84 501 400 / Fax: +36 84 501 415 info@hotelazur.hu www.hotelazur.hu
Website	You will find the newest details on the website of the Hungarian Society for Separation Sciences, www.mett.hu
Registration	The lobby of the Hotel Azúr****, Siófok, from 12:00 am on Tuesday, September 4, 2007. Participants are requested to visit the Registration Desk first.
Badges	A name badge must be worn by each registered participant and accompanying person in order to gain admittance to the Symposium, meals and cultural programs.
Symposium language	The Symposium language will be English. No simultaneous translation will be provided.
Key to lectures & posters	L Lecture presentation ML Manufacturers' lecture P Poster MP Manufacturers' posters
Exhibition	The exhibition will be arranged in the lobby of the Hotel Azúr****. Participants can meet the exhibitors during the whole scientific program.
Meals	Every participant is requested to serve breakfast in the hotel where the accommodation has been booked. Lunches and dinners will be served in Hotel Azúr****
Cultural programs	Wednesday, September 5: Concert of the Semmelweis University Chamber Orchestra. Please, find the Concert Invitation separately. Wednesday, September 5: Gala Dinner in the Corinthos Restaurant of the Hotel Azúr****. The music will be provided by the Atlantis Band. Thursday, September 6: Grill Party in the garden of the Hotel Azúr****. The music will be provided by the Pilischer Sramli Band.
Shuttle buses	Shuttle buses will be assured for the participants accommodated in Hotel Panoráma****. For details please contact the Symposium Secretary at the Registration Desk.
City bus connection	City bus N ^o 1 will drive passangers from the Siófok Railway station to Hotel Azúr****.
Luggage room:	Hotel rooms check-out time: 11:00 am. A luggage room will be assured for the participants in Hotel Azúr**** on Friday, September 7.

Oral presentations

Oral presentations will take 30 and 20 minutes, while the manufacturers' presentations 15 minutes, respectively, with 5 minutes discussion included. Computer projection will be available. At least 30-40 minutes before the start of the sessions, speakers should load their CDs or pen drives into the CD magazine provided in the Lecture Halls. CDs will be coded and transferred to the lecture projection facility. CDs will be returned to speakers after the end of their sessions. If you have a special format for your presentation (different from PP), you will have already informed the Secretariat. It is helpful for a speaker to introduce himself to the chairs before the session begins; this reduces delay at the start of the session and makes for a smooth transfer from one speaker to the next.

Poster Sessions

Poster Session I Wednesday, September 5, 2007, 17:00-18:30
P-1-66 MP-1-13 Hall Toscana II

Poster Session II Thursday, September 6, 2007, 17:30 – 19:00
P-67-132 MP-1-13 Hall Toscana II

The format of the poster board: **90 cm x 110 cm, portrait.**
The technical accessories are available in the poster hall.

The posters presented according to the above schedule should be mounted on the poster board on both days between 8:00-9:00. The manufacturers' posters MP-1-13 will be presented on both days. Authors presenting posters are requested to be in attendance at their poster board during the Poster Session on the day of their poster presentation.

The Poster Award Committee will evaluate the poster presentations and valuable awards will be conferred at the Poster Award Ceremony preceding the Closing Remarks.

All posters will be removed at the end of the day of presentations.

Symposium Proceedings

All registered delegates will receive a copy of the 7th Balaton Symposium on High-Performance Separation Methods volume free of charge.

All papers presented at the 7th Balaton Symposium will be considered for publication in a special issue of the **Chromatographia** and in the **Journal of Planar Chromatography – Modern TLC (JPC)**, the official journals of the Symposium. Manuscripts are to be submitted online directly to the editors, by 30th October 2007 in the case of JPC and by 30th December 2007 in the case of Chromatographia, respectively. Authors should consult the journals' "Notes to Authors" for format details. The papers will be subject to the usual process of peer review. A further copy is to be submitted to the Symposium Secretary (abram@hogyes.sote.hu) as attached file.

Accommodation

Hotel Azúr**
Wellness & Conference Centre**

H-8600 Siófok, Erkel F. St. 2/c.
Tel.: + 36 84 501 400
Fax: + 36 84 501 451
e-mail: azur@hotelazur.hu
www.hotelazur.hu

Hotel Residence**
Conference & Wellness**

H-8600 Siófok, Erkel F. St. 49.
Tel.: + 36 84 506 840
Fax: + 36 84 506 839
e-mail: info@hotel-residence.hu
www.hotel-residence.hu
(distance to the Symposium venue: 300 m)

Hotel Panoráma**
Wellness & Conference**

H-8600 Siófok, Beszédes J. St. 80.
Tel.: + 36 84 311 638
Fax: + 36 84 510 226
e-mail: panoramahotel@t-online.hu
www.panoramahotel-siofok.hu
(distance to the Symposium venue: 2,000 m)

Hotel Fortuna***

H-8600 Siófok, Erkel F. St. 51.
Tel.: + 36 84 313 933
Fax: + 36 84 311 087
e-mail: www.hotelfortuna-siofok.hu
(distance to the Symposium venue: 350 m;
reserved especially for students,
accommodation in double rooms only)



Hotel Azúr ★★★★★ **Wellness & Conference Centre**



Hotel Residence ★★★★★
Conference & Wellness



Hotel Panoráma ★★★★★
Wellness & Conference



Hotel Fortuna ★★★★★

Travel information

By car from Budapest

Turn off the M7 motorway at the 105 kilometre post (Siófok Centrum) and from there go toward the centre or the sailing boat harbour – going straight at each junction. After you cross the rails, the gate of the Hotel Azúr**** is 150 meters from the corner of Vitorlás and Erkel Ferenc streets.

Train Schedule from Budapest to Siófok

September 4, 2007

Departure from Budapest	Train Number	Arrival to Siófok	Duration	
Keleti Train Station 10:15	5209 express	12:18	2:03	–
Keleti Train Station 15:00	856 Maestral international	17:02	2:02	–
Keleti Train Station 16:05	846 Kanizsa Zala IC	18:07	2:02	[R]
Keleti Train Station 17:20	240 Venezia EN	19:17	1:57	–
Déli Train Station 18:45	8508 express	20:58	2:13	–

September 5, 2007

Departure from Budapest	Train Number	Arrival to Siófok	Duration	
Déli Train Station 06:45	852 express	08:36	1:51	–
Déli Train Station 07:45	8502 express	09:56	2:11	–
Keleti Train Station 08:05	200 Kvarner IC	10:00	1:55	[R]
Keleti Train Station 10:15	5209 express	12:18	2:03	–

Train Schedule from Siófok to Budapest

September 7, 2007

Departure from Siófok	Arrival to Budapest	Train Number	Duration	
15:17	17:28	Keleti Train Station 5208 express	2:11	–
15:56	17:48	Déli Train Station 853 express	1:52	–
17:52	20:03	Déli Train Station 18503 express	2:11	–
19:18	21:08	Déli Train Station 851 express	1:50	–
19:38	21:33	Keleti Train Station 201 Kvarner IC	1:55	[R]

[R] Reserved seat ticket

Hotel Panoráma

Budapest

Hotel Azúr

Hotel Residence

Hotel Fortana

Újhegy

Belváros

E71 M7

Siófok-Centrum

Békas-dűlő



SCIENTIFIC PROGRAM

Program Overview

Wednesday 5 September		Thursday 6 September		Friday 7 September	
Hall Toscana I		Hall Toscana I		Hall Toscana I	
Hall Catalonia		Hall Catalonia		Hall Catalonia	
10:00-10:30 Opening Ceremony Csaba Horváth Memorial Award Ceremony		8:30-8:45 Halász Medal Award Ceremony		8:30-10:25 Parallel Session VII	8:30-10:25 Parallel Session VIII
10:30-12:45 Plenary Session I		8:45-10:45 Plenary Session II			
12:45-14:15 Lunch & Exhibition Corinthos Restaurant & Hotel Lobby		11:00-11:30 Coffee Break & Exhibition Hotel Lobby		10:25-10:55 Coffee Break & Exhibition Hotel Lobby	
14:15-16:30 Parallel Session I	14:15-16:35 Parallel Session II	11:30-13:10 Parallel Session III	11:30-13:10 Parallel Session IV	10:55-12:25 Plenary Session III	
16:30-17:00 Coffee Break & Exhibition Hotel Lobby		13:10-14:45 Lunch & Exhibition Corinthos Restaurant & Hotel Lobby		12:25-12:45 Poster Award Ceremony	
17:00-18:30 Poster Session I Hall Toscana II		14:45-17:00 Parallel Session V	14:45-16:55 Parallel Session VI	12:45-13:00 Closing Remarks	
19:30-20:30 Concert		17:00-17:30 Coffee Break & Exhibition Hotel Lobby		13:00- Lunch Corinthos Restaurant	
20:30-01:00 Gala Dinner Corinthos Restaurant		17:30-19:00 Poster Session II Hall Toscana II		20:00-01:00 Grill Party Garden of the Hotel Azur	

Opening Ceremony Csaba Horváth Memorial Award Ceremony

10:00-10:30 Klebovich, I.

President of the Hungarian Society for Separation Sciences,
Budapest, Hungary

Görög, S.

Past President of the Chemical Department of the
Hungarian Academy of Sciences, Budapest, Hungary

Frank, H.

President of the European Society for Separation Sciences,
Bayreuth, Germany

Šegudović, N.

Representative of the Central European Group for Separation
Sciences, Zagreb, Croatia

Szepesy, L.

Honorary President of the Hungarian Society for Separation
Sciences, Budapest, Hungary

Horváth, T.

Representative of Csaba Horváth Memorial Award Committee,
Budapest, Hungary

Halász, Á.

Representative of Halász Medal Award Committee,
Halász-Stiftung, Saarbrücken, Germany

Plenary Session I

Chairs: Lindner, W., Szepesy, L.

10:30-11:00 Separation Science and Mass Spectrometry: A Marriage

L-1 Made in Heaven?

Karger, B.L.

Northeastern University, Boston, MA, USA

11:00-11:30 Miniaturized Sample Preparation Device: A Versatile Design

L-2 for Rapid Analysis in Environmental Analysis

Jinno, K., Ueta, I., Ogawa, M., Saito, Y.

Toyohashi University of Technology, Toyohashi, Japan

11:30-12:00 Novel Monolithic Capillary Columns of Different Chemistries

L-3 for the Separation of Biopolymers and

Low-Molecular-Weight Compounds

Bonn, G.K., Trojer, L., Bisjak, C.P., Wolfgang, W.

Leopold-Franzens University, Innsbruck, Austria

12:00-12:30 Progress in Exploiting Selectivity in Systematic HPLC Method

L-4 Development

Molnar, I.

MOLNAR-INSTITUT für angewandte Chromatographie, Berlin,
Germany

12:30-12:45 HPLC-Chip/MS: A New Platform for Easy to Use, Robust and

ML-1 Reliable Nanospray LC/MS

van de Goor, T.A.

Agilent Technologies, Inc., Waldbronn, Germany

12:45-14:15 Lunch & Exhibition

Parallel Session I

Chairs: Jinno, K., Molnár, I.

14:15-14:45 L-5 Some Alternative Approaches for the Analysis of Drugs and Other Basic Compounds by HPLC

McCalley, D.V.¹, Davies, N.H.¹, Euerby, M.R.²

¹University of the West of England, Bristol, U.K.

²AstraZeneca R&D Charnwood/Lund, Loughborough, U.K.

14:45-15:15 L-6 In-Silico Ion-Chromatography: Computer Simulation and Optimization of Separations Using Combined Isocratic and Gradient Elution Profiles

Haddad, P.R., Dicoski, G.W., Shellie, R.A., Ng, B.K., Poynter, S.D.H.

Australian Centre for Research on Separation Science (ARCOSS), University of Tasmania, Hobart, Australia

15:15-15:45 L-7 Binding Media in Museum Object: Their Identification by Capillary Electrophoresis

Kenndler, E.

University of Vienna, Vienna, Austria

15:45-16:15 L-8 Improving Peak Capacity in Two-Dimensional LCxLC

Jandera, P., Česla, P., Hájek, T., Vyňuchalová, K.

University of Pardubice, Pardubice, Czech Republic

16:15-16:30 ML-2 Optimization of HPLC Particles and Column Dimensions for Fast, Efficient Separations

Bell, D.¹, Henry, R.¹, Campbell, W.¹, Brandes, H.¹, **Wallworth, D.**²

¹Sigma-Aldrich/Supelco, Bellefonte, PA, USA

²Sigma-Aldrich/Supelco, Munich, Germany

16:30-17:00 Coffee Break & Exhibition

Parallel Session II

Chairs: Engelhardt, H., Haddad, P.

14:15-14:45 Separation Science for Ecological Sustainability

L-9 Frank, H.

University of Bayreuth, Bayreuth, Germany

**14:45-15:15 Thermal Field Flow Fractionation of Charged Submicronic-
L-10 Particles in Aqueous Media**

Dondi, F., Pasti, L.

University of Ferrara, Ferrara, Italy

15:15-15:45 Phase Optimized Liquid Chromatography (POPLC®):

**L-11 A Unique Tool for Method Development and Method
Optimization in HPLC**

Bischoff, K., Lamotte, S., Brindle, R.

Bischoff Chromatography, Leonberg, Germany

**15:45-16:15 Chemically Modified Surfaces for Determination of Selected
L-12 Biomarkers in Medical Diagnosis**

Buszewski, B., Szumski, M., Ligor, T., Kłodzińska, E.,

Nowaczyk, J., Czerwiński, W.

Nicolaus Copernicus University, Toruń, Poland

**16:15-16:35 High Performance Liquid Chromatographic Determination of
L-13 Organic Constituents in Commercial Tea Brands and Fresh
Tea Leaves**

Khan, H.¹, Hussain, I.², Khalil, S.J.¹, Saleem, M.², Marwat, G.A.²

¹University of Peshawar, Peshawar, Pakistan

²PCSIR Laboratories Complex, Peshawar, Pakistan

16:35-17:00 Coffee Break & Exhibition

Poster Session I

Chair: Harangi, J.

17:00-18:30

P-1 – P-66

MP-1 – MP-13

- P-1** **Evaluation of *Sempervivum Tectorum* L. Flavonoids with HPLC and LC-MS Methods**
Alberti, Á., Blazics, B., Szőke, É., Kéry, Á.
Semmelweis University, Budapest, Hungary
- P-2** **Fast and Simple Determination of Brominated Flame-retardants in Water Samples**
Angyal, V.¹, Benesóczki, D.¹, Eke, Zs.², Volk, G.³
¹Eötvös Lorand University, Budapest, Hungary
²Wessling International Research and Educational Centre, Budapest, Hungary
³Wessling Hungary Ltd., Budapest, Hungary
- P-3** **Calibration of GC/MS Instrument in Non-target Analysis of Volatile Organic Compounds in the Air**
Arh, G.¹, Pompe, M.¹, Klasinc, L.², Veber, M.¹
¹University of Ljubljana, Ljubljana, Slovenia
²Ruđer Bošković Institute, Zagreb, Croatia
- P-4** **Antioxidant Analysis of Hungarian Red Wines**
Avar, P.¹, Pour Nikfardjam, M.S.², Kunsági, M.S.¹, Montskó, G.¹, Szabó, Z.¹, Böddi, K.¹, Ohmacht, R.¹, Márk, L.¹
¹University of Pécs, Pécs, Hungary
²State Research Institute for Viticulture and Pomiculture, Weinsberg, Germany
- P-5** **Determination of Mass Transfer Coefficients with Macroscopic and Microscopic Approaches in Reversed Phase Liquid Chromatography**
BacsKay, I., Felinger, A.
University of Pécs, Pécs, Hungary

- P-6 Optimization of the Visualization of Steroids Separated by OPLC**
Bagócsi, B., Végh, Z., Ferenczi-Fodor, K.
Gedeon Richter Plc., Budapest 10., Hungary
- P-7 Chemical Analysis on Hallucinogenic of Angel's Trumpet (*Brugmansia Suaveolens* L.)**
Balázs, A., Hank, H., Buda, I., Isó, I., Szőke, É., **Kursinszki, L.**
Semmelweis University, Budapest, Hungary
- P-8 GC Analysis of Natural Antimicrobial Compounds in Cyclodextrin Complexes and in Active Packaging**
Balogh, K.¹, Fenyvesi, E.¹, Orgoványi, J.², Otta, K.², Szente, L.¹
¹CycloLab Cyclodextrin R&D Lab. Ltd., Budapest, Hungary
²Eötvös Loránd University, Budapest, Hungary
- P-9 LC and LC-MS Studies on Genetically Transformed Cultures of *Rubia Tinctorum***
Bányai, P.¹, Kuzovkina, I.², Kursinszki, L.¹, Ludányi, K.¹, Szarka, Sz.¹, Szőke, É.¹
¹Semmelweis University, Budapest, Hungary
²Russian Academy of Sciences, Moscow, Russia
- P-10 Quantitative Determination of Ethyl Vanillin by GC-MS**
Bartal, M., Mátyási, J., Balla, J.
B&B Analytics Ltd., Budapest, Hungary
- P-11 Application of Gas Chromatography/Mass Spectrometry in the Research of Plant Metabolomics**
Bartók, T.^{1,2}, Szekeres, A.^{1,2,3}, Barnabás, B.⁴, Sági, L.⁴, Jäger, K.⁴
¹Cereal Research Non-Profit Company, Szeged, Hungary
²FumoPrep Ltd., Mórahalom, Hungary
³University of Szeged, Szeged, Hungary
⁴Agricultural Research Institute of the Hungarian Academy of Sciences, Martonvásár, Hungary
- P-12 Modern Extraction and Separation Methods for the Identification of 'Carotenoids and its Fatty Acids Found in Red Pepper (*Capsicum Annuum*)**
Bayer, M.P., Rehbein, J., Holtin, K., Kuehnle, M., Friebolin, V., Albert, K.
University of Tuebingen, Tuebingen, Germany

- P-13 Quantitative Analysis of the 26 Allergens for Cosmetic Labeling in Skin Care and Household Products**
Benesóczki, D.¹, Angyal, V.¹, Rikker, T.², Torkos, K.¹
¹Eötvös Loránd University, Budapest, Hungary
²Wessling International Research and Educational Center, Budapest, Hungary
- P-14 Analysis of PCB-s in Fish Oils by Direct Injection Using a Deans Switch with Backflushing**
Benesóczki, D.¹, Pál, R.², Angyal, V.¹
¹Eötvös Loránd University, Budapest, Hungary
²Kromat Ltd., Budapest, Hungary
- P-15 Reinvestigation of *Euphrasia Officinalis* L. Using Various Chromatographic Techniques – from TLC to LC-MS/MS**
Blazics, B., Ludányi, K., Szarka, Sz., Kéry Á.
¹Semmelweis University, Budapest, Hungary
- P-16 Comparison of Solvent Adsorption on Chemical Bonded Stationary Phases in RP HPLC**
Bocian, Sz.¹, Felinger, A.², **Buszewski, B.**²
¹Copernicus University, Toruń, Poland
²University of Pécs, Pécs, Hungary
- P-17 Trace Analysis of Colchicine by Electrodriven Separation Techniques**
Bogdan-Cezar, I., **Bodoki, E.**, Oprean, R., Săndulescu, R.
University of Medicine and Pharmacy “Iuliu Hațieganu”, Cluj-Napoca, România
- P-18 Determination of Anthraquinone Derivatives in Cell Suspension Cultures of *Rubia Tinctorum* L.: Elicitation's Impact on the Amount of the Compounds Formed**
Boldizsár, I.¹, Orbán, N.¹, Szűcs, Z.², Bóka, K.¹, Dános, B.^{1,2}, Füzfai, Zs.¹, Molnár-Perl, I.¹
¹Eötvös Loránd University, Budapest, Hungary
²Research Institute of Medicinal Plants, Budakalász, Hungary

- P-19 Terpenoids of Morus Leaf and Bark in Traditional and Supercritical Fluid Extracts**
Böszörményi, A.¹, Szarka, Sz.¹, Héthelyi, É.¹, Gyurján, I.², Simándi, B.³, Szőke, É.¹, Lemberkovics, É.¹
¹Semmelweis University, Budapest, Hungary
²Eötvös Loránd University, Budapest, Hungary
³Budapest University of Technology and Economics, Budapest, Hungary
- P-20 UV Light Induced Photodegradation of Liposomal Fluoroquinolone Antibiotics: an MS Study**
Budai, M., Ludányi, K., Pápai, K., Gróf, P., Klebovich, I.
Semmelweis University, Budapest, Hungary
- P-21 Endogenous Urinary Steroids in Postmenopausal Women with Ovarial Cancer**
Bufa, A., Bíró, I., Bálint, A., Gőcze, P., Kilar, F.
University of Pécs, Pécs, Hungary
- P-22 Altered Urinary Profiles of Endogenous Steroids in Patients with Uterine Leiomyomas and Adenocarcinoma Endometrii**
Bufa, A., Bíró, I., Molnár, G., Kilar, F., Gőcze, P.
University of Pécs, Pécs, Hungary
- P-23 Examination of Sugar Content of Bacterial Endotoxins by GC-MS**
Bui, A., Bufa, A., Poór, V., Kocsis, B., Kilar, F.
University of Pécs, Pécs, Hungary
- P-24 Separation of Laccase Isoforms from Trametes C30 by Capillary Electrophoresis**
Bui, A.^{1,2}, Tron, T.², Kilar, F.¹
¹University of Pécs, Pécs, Hungary
²Université Paul Cézanne, Marseille, France
- P-25 GC-MS Analysis of Glycerol Hydrogenolysis Reaction Products**
Chudoba, J.¹, Kroufek, J.¹, Šebor, G.¹, Kolena, J.², Morávek, P.², Kubičková, I.²
¹Institute of Chemical Technology, Prague, Czech Republic
²Research Institute of Inorganic Chemistry, Litvínov, Czech Republic

- P-26 High Performance Liquid Chromatography with Ultraviolet Detection for Estimation of Redox Status of Main Urinary Amino Thiols**
Chwatko, G., Kuśmierk, K., Bald, E.
University of Lodz, Lodz, Poland
- P-27 Study of Some Electric Field Geometries Using the Vertical Planar Dielectrochromatographic Chamber**
Coman, V., Kreibik, Țt., Filip, M., Avram, V.
“Raluca Ripan” Institute for Research in Chemistry, Cluj-Napoca, Romania
- P-28 Pesticide Residue Analysis by RPLC-GC in Lycopene and Other Carotenoids Obtained from Tomatoes by Supercritical Fluid Extraction**
Cortés, J.M., Díaz-Plaza, E.M., Toledano, R.M., Flores, J., Vázquez, A., Villén, J.
Universidad de Castilla-La Mancha, Albacete, Spain
- P-29 Stability Indicating HPLC Method for Analysis of Hydroxypropylbetadex**
Csabai, K.¹, Szemán, J.¹, Varga, G.², Szenté, L.¹
¹CycloLab Cyclodextrin R&D Lab. Ltd, Budapest, Hungary
²ChiroQuest Chiral Technologies Dev. Ltd., Budapest, Hungary
- P-30 Determination of Free Amino Acids in Urine for the Diagnosis of Amino Acid Metabolism Defects**
Csernyák, I.¹, Jávorszky, E.², Torkos, K.¹
¹Eötvös Loránd University, Budapest, Hungary
²Semmelweis University, Budapest, Hungary
- P-31 HPLC Method for the Simultaneous Determination of Ergosterol, Tocopherols and Carotenoids in Foods**
Daood, H.G., Korbász, M., Hamdan, S.
Central Food Research Institute, Budapest, Hungary
- P-32 Phytochemical Evaluation of Ononidis Spinosae Radix**
Daruházi, Á.¹, Szarka, Sz.¹, Héthelyi, É.¹, Simándi, B.², Gyurján, I.³, Szőke, É.¹, Lemberkovics, É.¹
¹Semmelweis University, Budapest, Hungary
²Budapest University of Technology and Economics, Budapest, Hungary
³Eötvös Loránd University, Budapest, Hungary

- P-33 Comparison of Extraction Methods of Some Plant Materials by Means of TLC, OPLC and HPLC-MS**
Dávid, Á.Z.¹, Mincsovics, E.², Pápai, K.¹, Ludányi, K.¹, Antal, I.¹, Klebovich, I.¹
¹Semmelweis University, Budapest, Hungary
²OPLC-NIT Ltd., Budapest, Hungary.
- P-34 Detection of „Quorum Sensing” Molecules by GC-MS and CE-MS**
Dergez, T., Kőnig, A., Rezeli, M., Poór, V., Kilár, F.
University of Pécs, Pécs, Hungary
- P-35 GC-NCI-MS-MS Method for the Detection of Pesticide Metabolites in Biological Samples**
Farkas, R.¹, Torkos, K.¹, Gachályi, A.², Horváth, Gy.²
¹Eötvös Loránd University, Budapest, Hungary
²Military Medical Centre of HDF, Budapest, Hungary
- P-36 How to Develop and Verify a Set of Analytical Methods for Phase I Application Within 3 Weeks**
Fekete, Sz., Ganzler, K.
Gedeon Richter Plc, Budapest, Hungary
- P-37 Fast Analysis of Steroids on Zirconium-dioxide Based Stationary Phases at Elevated Temperature**
Fekete, Sz., **Ganzler, K.**
Gedeon Richter Plc, Budapest, Hungary
- P-38 Lipase Modified Silica as a New HPLC Stationary Phase**
Friebolin, V., Dietrich, B., Gökay, O., Albert, K.
University of Tuebingen, Tuebingen, Germany
- P-39 Mapping and Quantification of Lupane-type Triterpenes and Phytosterols in Betulaceae and Platanaceae Plants with Different Chromatographic Techniques**
Gáva, A.^{1,2}, **Simándi, B.**³, Szarka, Sz.¹, **Szőke, É.**¹, Kéry, Á.¹
¹Semmelweis University, Budapest, Hungary
²Gedeon Richter Plc, Budapest, Hungary
³Budapest University of Technology and Economics, Budapest, Hungary
- P-40 Large-volume Injection RP-HPLC Analysis of Chiral Pesticides Directly Extracted from Soils**
Góra, R., Rybár, I., Hutta, M.
Comenius University, Bratislava, Slovak Republic

- P-41 Monolithic Column RP-HPLC Analysis of Amino Acids Composition of Soil Humic Substances**
Góra, R., Hutta, M.
Comenius University, Bratislava, Slovak Republic
- P-42 HRCGC Analysis of CLA Isomers in Ewe Dairy Products**
Górová, R.¹, Soják, L.¹, Ostrovský, I.¹, Kubinec, R.¹, Blaško, J.¹, Meľuchová, B.¹, Pavlíková, E.¹, Margetín, M.², Špánik, J.²
¹Comenius University, Bratislava, Slovak Republic
²Slovak Agricultural Research Centre, Nitra, Slovak Republic
- P-43 Improvement of the Sequence Coverage Applying Different Matrices, Solid Phase Extraction (SPE) and HPLC Separation of the Tryptic Digest of Human Serum Albumin (HSA) by Matrix-Assisted Laser Desorption/Ionization Mass Spectrometry (MALDI) – A Comprehensive Study**
Gulyássy, P.¹, Böddi, K.¹, Markó, L.¹, Márk, L.¹, Wittman, I.¹, Ohmacht, R.¹, Sümegi, B.¹, Vallant, R.M.², Huck, Ch.W.², Bakry, R.², Bonn, G.K.², Szabó, Z.¹
¹University of Pécs, Pécs, Hungary
²Leopold-Franzens University, Innsbruck, Austria
- P-44 Enantiomer Separation of a Set of Imidazo-quinazolone Derivatives on a Quinine-derived Chiral Stationary Phase**
Gyimesi-Forrás, K.^{1,2}, Maier, N.M.¹, Kökösi, J.², Gergely, A.², Lindner, W.¹
¹University of Vienna, Vienna, Austria
²Semmelweis University, Budapest, Hungary
- P-45 Application of a New Method: Determination of Fatty Acid Composition in Bacterial Cell Membrane Using GC, GC/MS Technique**
Halász, J.L., Szathmáry, M., Dinya, Z., Máthé, E., Balázs, S.
College of Nyíregyháza, Nyíregyháza, Hungary
- P-46 Chromatographic Fingerprint – Identification of Multicomponent Samples**
Harangi J.
Debrecen University, Debrecen, Hungary
- P-47 Temperature Programmed HPLC with Flow Programming**
Harangi, J., Pintér, Á.
Debrecen University, Debrecen, Hungary

- P-48 Characterization of Porous Graphitic Carbon HPLC Phase with Some Carbohydrates**
Harangi, J., Gulyás, Zs., Hajdú, I., Makuta, M.
Debrecen University, Debrecen, Hungary
- P-49 Determination of *Stachys Recta* Iridoids by Combination of Chromatographic Methods and Examination of *Stachys Recta* Inorganic Element Compounds with X-ray Beams**
Háznagy-Radnai, E.¹, Pintye-Hódi, K.¹, Czige, Sz.²,
Martinek, T.¹, Máthé, I.^{1,3}, Erős, I.¹
¹University of Szeged, Szeged, Hungary
²Comenius University, Bratislava, Slovakia
³HAS-Institute of Ecology and Botany, Vácrátót, Hungary
- P-50 Determination of Non-steroidal Anti-inflammatory Drugs by Gas-Chromatography-Tandem Mass Spectrometry in Danube River**
Helenkár, A., Vasanits-Zsigrai, A., Molnár-Perl, I., Záray, Gy.
Eötvös Loránd University, Budapest, Hungary
- P-51 The Search on Matrix Matrix Effects in Pesticide Residues Analysis in Non Fatty Food**
Hercegová, A., Húšková, R., Matisová, E.
Slovak University of Technology, Bratislava, Slovak Republic
- P-52 Gas Chromatographic Analysis of Phytosterols in *Epilobium* Species**
Hevesi Tóth, B., Szarka, Sz., Szőke, É., Kéry, Á.
Semmelweis University, Budapest, Hungary
- P-53 Identification of Cannabigerol in Human Urine After Cannabis Consumption**
Hidvégi, E., Hideg, Zs., Somogyi, G.P.
National Institute of Forensic Toxicology, Budapest, Hungary
- P-54 TLC Investigation of the In Vitro Reaction of Beech (*Fagus sylvatica* L.) Wood Enzymes With Polyphenols: The Oxidative Transformation of the Catechins During Red Heartwood Formation in Beech**
Hofmann, T., Albert, L., Rétfalvi, T.
University of West Hungary, Sopron, Hungary

- P-55 Isolation, Separation and Identification of Carotenoids in the Fruit of Cornelian Cherry (*Cornus Mas* L.)**
Horváth, Gy., Turcsi, E., Molnár, P., Szabó, L.Gy., Deli, J.
University of Pécs, Pécs, Hungary
- P-56 Isolation, Separation and Identification of Carotenoids from the Flower of Tansy (*Tanacetum Vulgare* L.)**
Horváth, Gy., Turcsi, E., Molnár, P., Szabó, L.Gy., Deli, J.
University of Pécs, Pécs, Hungary
- P-57 Peak Shape Analysis of Multiprotic Analytes in Anion Chromatography**
Horváth, K., Hajós, P.
University of Pannonia, Veszprém, Hungary
- P-58 Controlling of Chemical Stability of Electrolytic Capacitors Using RP-HPLC, Ion Chromatography and HS-GC-MS**
Horváth, K.¹, Hajós, P.¹, Balla, J.², Bálint, I.³, Klug, O.³
¹University of Pannonia, Veszprém, Hungary
²B&B Analytics Ltd., Budapest, Hungary
³EPCOS Ltd., Szombathely, Hungary
- P-59 Two-dimensional HPLC Analysis of Organic Acids in Propolis**
Hroboňová, K.¹, Lehotay, J.¹, Čížmárik, J.²
¹Slovak University of Technology, Bratislava, Slovak Republic
²Comenius University, Bratislava, Slovak Republic
- P-60 Multiresidual Analysis of Pesticides with Fast GC-MS**
Húšková, R., Matisová, E., Kirchner, M.
Slovak University of Technology, Bratislava, Slovak Republic
- P-61 Measuring of the Lipophilicity and Biological Properties of the Isochromanone Molecular Library**
Huszár, M.¹, Hallgas, B.¹, Idei, M.¹, Erős, D.², Szabó, E.Z.¹, Bökönyi, Gy.¹, Vántus, T.¹, Kéri, Gy.^{1,2}, Loránd, T.³
¹Hungarian Academy of Sciences - Semmelweis University, Pathobiochemical Research Group, Budapest, Hungary
²Vichem Chemie Ltd., Budapest, Hungary
³University of Debrecen, Debrecen, Hungary
- P-62 Capillary Electrophoretic Enantioseparation of Substituted Amino Acids with Cyclodextrins**
Ilisz, I.¹, Iványi, R.², Tóth, G.³, Pataj, Z.¹, Péter, A.¹
¹University of Szeged, Szeged, Hungary
²CycloLab R&D Ltd, Budapest, Hungary
³Biological Research Center, Szeged, Hungary

- P-63 Systematical Analysis of Chromatographic Behavior of Fosinopril Sodium and Fosinoprilat Employing Neural Networks In Method Development**
Jančić, B.¹, Malenović, A.¹, Popović, I.², Ivanović, D.¹, Medenica, M.¹
¹University of Belgrade, Belgrade, Serbia
²Medicines and Medical Devices Agency of Serbia, Belgrade, Serbia
- P-64 Potential Role of Formaldehyde and its Reaction Products in the Antiproliferative Activity of some Herbicide-like Compounds**
Janicka, M.¹, Tyihák, E.², Ościk-Mendyk, B.¹, **Malinowska, I.**¹
¹Maria Curie-Skłodowska University, Lublin, Poland
²HAS-Plant Protection Institute, Budapest, Hungary
- P-65 A Capillary Electrophoretic (CE) Method for Screening of Amlodipine Bulk Substance and Tablets**
Jankovics, P., Németh, T., Németh-Palotás, J., Kőszegi-Szalai, H.
National Institute of Pharmacy, Budapest, Hungary
- P-66 Introduction of Liquid Chromatography - Time-of-Flight Mass Spectrometry (LC-MS-TOF) in the Investigation Procedure of Counterfeit and Illegal Medicinal Products**
Jankovics, P., **Kisrákói, Cs.**, Kósa, T., Németh, T., Besey, G., Németh-Palotás, J., Kőszegi-Szalai, H.
National Institute of Pharmacy, Budapest, Hungary
- MP-1 “MEPS” A New Micro Extraction Device**
Bellay, T.
B&K Scientific Technological Trading Ltd., Budapest, Hungary
- MP-2 Identification of Pharmaceuticals and Drugs using On-Line Sample Preparation and HPLC-PDA**
Kribbel, F.¹, Erxleben, B.T.¹, Schönberg, L.², Grobosch, T.²
¹Shimadzu Europa GmbH., Duisburg, Germany
²Institute for Toxicology, Berlin, Germany
- MP-3 A System for Professional Automated Robustness Testing of HPLC Methods**
Laki, G.¹, Beinert, W.D.², Günther, W.², Eckert, V.², Galushko, S.³, Shishkina, I.³
¹Merck Hungary Ltd., Budapest, Hungary
²VWR International GmbH, Darmstadt, Germany
³Dr. S.V. Galushko, Software Entwicklung, Muehlthal, Germany

- MP-4 A System for Professional Automated HPLC Method Development**
Laki, G.¹, Beinert, W.D.², Günther, W.², Eckert, V.², Galushko, S.³, Shishkina, I.³
¹Merck Hungary Ltd., Budapest, Hungary
²VWR International GmbH, Scientific Instruments, Darmstadt, Germany
³Dr. S.V. Galushko, Software Entwicklung, Muehlthal, Germany
- MP-5 Evaluation of Measurement Uncertainty in Analytical Chemistry: A Software Solution**
Laki, G.¹, Beinert, W.D.², Roesslein, M.³, Rezzonico, S.³, Hedinger, R.³, Meyer, V.R.³, Wampfler, B.³
¹Merck Hungary Ltd., Budapest, Hungary
²VWR International GmbH, Scientific Instruments, Darmstadt, Germany
³Empa, Materials Science and Technology, St. Gallen, Switzerland
- MP-6 Fast HPLC Method for Determination of AMP/ADP/ATP in Mussel and Crayfish Extracts**
Laki, G.¹, Eckert, V.², Beinert, W.D.², Shishkina, I.³
¹Merck Hungary Ltd., Budapest, Hungary
²VWR International GmbH, Scientific Instruments, Darmstadt, Germany
³Dr. S.V. Galushko, Software Entwicklung, Muehlthal, Germany
- MP-7 Determination of Rhodamine B in Chili Extract by HPLC with Fluorescence Detection**
Laki, G.¹, Eckert, V.², Scholz, H.P.², Beinert, W.D.²
¹Merck Hungary Ltd., Budapest, Hungary
²VWR International GmbH, Darmstadt, Germany
- MP-8 Development of an Effective Purification Method for Peptides and Proteins Using Silica Gel Based Reversed Phase Packing Material**
Morishita, K.¹, Yamada, Y.¹, Omote, M.¹, Kuriyama, N.¹, Bloedom, B.², **Németh, L.**³, Vékes, E.³, Budai, A.³
¹YMC Co. Ltd. Ishikawa, Ishikawa, Japan
²YMC Europe GmbH, Dinslaken, Germany
³Edison House Ltd. Dabas, Hungary

MP-9 HPLC columns for Ultra Fast LC and LCMS Techniques from YMCNémeth, L.¹, Vékes, E.¹, Budai, A.¹, Stammel, Ch.²¹Edison House Ltd., Dabas, Hungary²YMC Europe GmbH, Dinslaken, Germany**MP-10 The Usable Solvent for Modern Chromatographic, Biologically Techniques**Németh, L.¹, Vékes, E.¹, **Budai, A.**¹, van Oosterwijk, Ir.S.²,Lágner, R.³¹Edison House Ltd., Dabas, Hungary²Biosolve B.V., Valkenswaard, The Netherlands³AMRI Hungary, Budapest, Hungary**MP-11 HPTLC as Orthogonal Technique to HPLC**Reich, E., **Nachbur, C.**

CAMAG, Muttenz, Switzerland

MP-12 Analysis of PCB in In-door Air Using Thermal Desorption Servos, U.¹, Kramp, F.², Geißler, M.²¹Shimadzu Deutschland GmbH, Duisburg, Germany²Shimadzu Europa GmbH, Duisburg, Germany**MP-13 One Column, Three Chromatographic Modes, a Number of Chance**Vékes, E.¹, Németh, L.¹, Budai, A.¹, Stammel, Ch.²¹Edison House Ltd., Dabas, Hungary²YMC Europe GmbH, Dinslaken, Germany**19:30-20:30 Concert – Hall Toscana I**

Simmelweis University Chamber Orchestra

Conductor: László Tardy

20:30 Gala Dinner – Corinthos Restaurant

Music: Atlantis Band

Halász Medal Award Ceremony

8:30-8:45 Klebovich, I.
President of the Hungarian Society for Separation Sciences,
Budapest, Hungary

Szepesy, L.
Honorary President of the Hungarian Society for Separation
Sciences, Budapest, Hungary

Halász, Á.
Representative of Halász Medal Award Committee,
Halász-Stiftung, Saarbrücken, Germany

Strothmann, V.
Halász-Stiftung, Saarbrücken, Germany

Plenary Session II

Chairs: Karger, B.L., Guiochon, G.

8:45-9:15 The Genesis of Chiral Ion Exchangers Derived from Cinchona
L-14 Alkaloids and from Unusual Amino Acids
Lindner, W., Maier, N.M., Hoffmann, C., Laemmerhofer, M.
University of Vienna, Austria

9:15-9:45 Selectivity of Chemically Modified Stationary Phases in LC
L-15 and SFC
Engelhardt, H.
Saarland University, Saarbrücken, Germany

9:45-10:15 Totally Synthetic and Natural Selectors in the Innovative
L-16 Design of Chiral Stationary Phases
Gasparrini, F.
Università "La Sapienza", Roma, Italy

10:15-10:45 Theoretical and Practical Aspects of Ultra

L-17 Performance LC

Neue, U.D., Walter, T.H., Kele, M., Wyndham, K.D., Wheat, T.E.,
Grumbach, E.S., Gilar, M.
Waters Corporation, Milford, MA, USA

10:45-11:00 TLC at Merck – Current R&D Activities in the Field

ML-3 of Proteomics

Schulz, M., Hauck, H.E., Schorcht, S., Leiss, D.
Merck KGaA Germany / PLS R&D., Darmstadt, Germany

11:00-11:30 Coffee Break & Exhibition

Parallel Session III

Chairs: Bonn, G., Martin, M.

- 11:30-12:00** **Recent Studies in Generation of Two-Dimensional Retention Indices in Comprehensive Two-Dimensional Gas Chromatography**
L-18 **Marriott, Ph.**
RMIT University, Melbourne, Australia
- 12:00-12:30** **HPLC-MS: Technique and Applications**
L-19 **Vékey, K., Drahos, L.**
HAS-Chemical Research Center, Budapest, Hungary
- 12:30-12:50** **Capillary Electrophoresis and Reversed-Phase HPLC-MS of Polyphenols: Fundamental Aspects and Practical Applications**
L-20 **Corradini, D., Bello, C., De Rossi, A., Siepe, F., Nicoletti, I.**
Institute of Chemical Methodologies, Roma, Italy
- 12:50-13:10** **Artificial Neural Network Modeling of Structure-Mobility Relationships in CZE and CEC**
L-21 **Chovan, T.¹, Mittermayr, S.², Kenesei, T.¹, Olajos, M.³, Molnar, I.⁴, Darvas, F.², Guttman, A.³**
¹Pannon University, Veszprém, Hungary
²University for Health Sciences, Hall, Austria
³University of Innsbruck, Innsbruck, Austria
⁴Molnar-Institute, Berlin, Germany
- 13:10-14:45** **Lunch & Exhibition**

Parallel Session IV

Chairs: Spangenberg, B., Tyihák, E.

11:30-12:00 Optimized Focussing in Planar Chromatography

L-22 Kaiser, R.E.

Institute for Chromatography, Bad Dürkheim, Germany

12:00-12:30 Thin Layer Chromatography Study of a Reaction Mechanism.

L-23 Experimental and Model Investigation of Oscillatory Chiral Inversion of Profens

Sajewicz, M.¹, Epstein, I.R.², Kowalska, T.¹

¹University of Silesia, Katowice, Poland

²Brandeis University, Waltham, MA, USA

12:30-12:50 Potential of Flowing Eluent Wall Process in OPLC

L-24 Mincsovics, E.

OPLC-NIT Ltd., Budapest, Hungary

12:50-13:10 The Current State of Planar Electrochromatography

L-25 Dzido, T.H., Płocharz, P.W., Ślęzak, P.

Medical University of Lublin, Lublin, Poland

13:10-14:45 Lunch & Exhibition

Parallel Session V**Chairs: Neue, U.D., Šegudović, N.****14:45-15:15 What Do We Learn from Fluid Mechanics About Viscous****L-26 Fingering in Liquid Chromatographic Columns?****Martin, M.**¹, De Wit, A.²¹Ecole Supérieure de Physique et de Chimie Industrielles (ESPCI), Paris, France²Université Libre de Bruxelles, Brussels, Belgium**15:15-15:45 Molecular Dynamic Analysis of Mass Transfer in****L-27 Chromatography****Felinger, A.**, BacsKay, I.

University of Pécs, Pécs, Hungary

15:45-16:05 Guidelines for Rapid Product Identification and Analytical**L-28 Method Development and Validation of Biotechnological Synthesis of Drugs. Production of a Hydroxyprogesterone as Model****Fornstedt, T.**¹, Lindholm, J.²¹Department of Physical and Analytical Chemistry, Uppsala, Sweden.²Research & Analysis, Swedish Match North Europe Division, Stockholm, Sweden**16:05-16:25 Application of Analytical Separation Methods Combined with****L-29 In Vivo Cerebral Microdialysis Sampling and Mass Spectrometric Detection to Study Mammalian Neurochemistry in Animal Models****Prokai, L.**, Stevens, Jr. S.M., Nguyen, V.

University of North Texas, Fort Worth, Texas, TX, USA

16:25-16:45 Progress in Liquid Chromatography of Synthetic Polymers**L-30 Berek, D.**

SAS-Polymer Institute, Bratislava, Slovakia

16:45-17:00 Column and Method Considerations for High Speed,**ML-4 High Efficiency LC and LC/MS****Milton, D.**, Pereira, L.

Thermo Electron Austria, Vienna, Austria

17:00-17:30 Coffee Break & Exhibition

Parallel Session VI

Chairs: Kaiser, R.E., Marriott, Ph.

- 14:45-15:15 A Simple and Reliable Method to Quantify Glucosamine in
L-31 Various Nutritional Supplements
In Memoriam Prof. Dr. Szabolcs Nyiredy**
Bleichert, M.¹, Eckhardt, H.S.², Klein, K.F.², Spangenberg, B.¹
¹University of Applied Sciences, Offenburg, Germany
²University of Applied Sciences, Friedberg, Germany
- 15:15-15:45 Indirect Detection of Endogenous Ozone in Spots after
L-32 TLC/OPLC Separation in BioArena Operating System**
Tyihák, E.¹, Móricz, Á.M.², Ott, P.G.¹
¹HAS-Plant Protection Institute, Budapest, Hungary
²Eötvös Loránd University, Budapest, Hungary
- 15:45-16:05 Application of SPE-TLC-DAD and HPLC-DAD to the
L-33 Determination of Pesticides in Real Water Samples from
Łęczyńsko-Włodawskie Lake District (South-East Poland)**
Tuzimski, T., Sobczyński, J.
Medical University of Lublin, Lublin, Poland
- 16:05-16:35 Psychiatric Diseases: What Proteins are Behind Them?
L-34 Proteomic Study with 1, 2 and 3 dimensional separation**
Janáky, T.¹, Szabó, Z.¹, Szeliné-Szomor, J.^{2,3}, Csorba, A.^{2,3},
Szegő, É.⁴, Kékesi, K.⁴, Juhász, G.⁴, Lévay, Gy.⁵
¹University of Szeged, Szeged, Hungary
²Kromat Ltd., Budapest, Hungary
³South-Plain Neurobiologic Research Centre, Szeged, Hungary
⁴Eötvös Loránd University, Budapest, Hungary
⁵EGIS Pharmaceuticals PLC, Budapest, Hungary
- 16:35-16:55 Determination of Biomarkers of Cell Stress by Capillary
L-35 Electrophoresis Methods**
Szökó, É., Tábi, T., Pálfi, M., Magyar, K.
Semmelweis University, Budapest, Hungary
- 16:55-17:30 Coffee Break & Exhibition**

Poster Session II**Chair: Harangi, J.****17:30-19:00****P-67 – P-132**

- P-67** **Inside Needle Capillary Adsorption Trap for GC Analysis of Volatile Organic Compounds in Water and Food Samples**
Jurčišinová, M.¹, Kubinec, R.¹, Jurdáková, H.¹, **Górová, R.**¹, Krkošová, Ž.¹, Ostrovský, I.¹, Soják, L.¹, Berezkin, V.G.²
¹Comenius University, Bratislava, Slovak Republic
²RAS-A.V. Topchiev Institute of Petrochemical Synthesis, Moscow, Russia
- P-68** **High Performance Liquid Chromatographic Application of Newly Developed Water-Soluble D-Phenylalanine Imprinted Polymeric Microbeads Prepared by a Novel Modified Suspension Polymerization**
Khan, H.^{1,2}, Khan, T.¹, Park, J.K.¹
¹University of Peshawar, Peshawar, Pakistan
²Kyungpook National University, Taegu, Republic of Korea
- P-69** **Microchip Electrophoresis for the Analysis of Bacterial Endotoxins**
Kilár, A., Farkas, V., Kilár, F., Kocsis, B.
University of Pécs, Pécs, Hungary
- P-70** **Quantitative Determination of Miconazole from Different Parenteral Solutions**
Kovács, K., Ludányi, K., Stampf, Gy., Klebovich, I., Antal, I.
Semmelweis University, Budapest, Hungary
- P-71** **Gas Chromatography – Mass Spectrometry Determination of Galactitol and Galactose in Urine**
Krkošová, Ž., Kubinec, R., **Górová, R.**, Jurdáková, H., Blaško, J., Ostrovský, I., Soják, L., Višňovský, J.
Comenius University, Bratislava, Slovakia
- P-72** **Analysis of Piperidine Alkaloids of *Lobelia inflata* (In Vitro and In Vivo) by HPLC-DAD and HPLC-MS/MS Methods**
Kursinszki, L. Ludányi, K., Szőke É.
Semmelweis University, Budapest, Hungary

- P-73 High Performance Liquid Chromatographic Method for the Determination of D-Penicillamine and 2-Mercaptopropionyl glycine in Urine**
Kuśmierek, K., Chwatko, G., Bald, E.
University of Lodz, Lodz, Poland
- P-74 GC and GC-MS Identification of Essential Oil Components from Hairy Root Culture of *Ruta Graveolens* L.**
Kuzovkina, I.¹, Szarka, Sz.², Héthelyi, É.², Lemberkovics, É.², Szőke, É.²
¹RAS-Institute of Plant Physiology, Moscow, Russia
²Semmelweis University, Budapest, Hungary
- P-75 Effect of Solvents and Monomers on Phenylcarbamic Acid Derivatives Imprinted Polymers Properties**
Lachová, M.¹, Lehotay, J.¹, Skačáni, I.¹, Čižmárik, J.²
¹Slovak University of Technology, Bratislava, Slovak Republic
²Comenius University, Bratislava, Slovak Republic
- P-76 Application of Liquid Chromatography Method for the Determination of Antibiotics Released from Matrix Type Drug Delivery Systems**
Laki, M., Hajdú, M., Ludányi, K., Zahár, Á., Szendrői, M., Klebovich, I., Antal, I.
Semmelweis University, Budapest, Hungary
- P-77 Chromatographic Analysis of Pyridinium Aldoximes and Metabolites**
Laufer, R.¹, Benkő, B.²
¹Semmelweis University, Budapest, Hungary
²Gedeon Richter Plc., Budapest, Hungary
- P-78 Analysis of Tryptophan Enantiomers Bound in Proteins After p-Toluenesulfonic Acid Hydrolysis with 3-(3-Indolyl)propionic Acid as a Protecting Agent**
Lóki, K.¹, Pohn, G.¹, Albert Cs.², Albert, B.², Mándoki Zs.¹, Csapó Zs.¹, Csapó J.^{1,2}
¹University of Kaposvár, Kaposvár, Hungary
²Sapientia – Hungarian University of Transylvania, Miercurea-Ciuc, Romania
- P-79 Enantiomeric Separation of D,L-lactic Acid in Yoghurts by Capillary Electrophoresis with Indirect UV-VIS Detection**
Maier, V., Knob, R., Müller, L., Znaleziona, J., Petr, J., Ševčík, J.
Palacký University, Olomouc, Czech Republic

- P-80** **The Use of the Prisma Model for Optimization of Separation of some Phenolic Acids by NP and RP-TLC Methods**
Malinowska, I.¹, Palus, J.¹, Studziński, M.¹,
Krauze-Baranowska, M.²
¹Maria Curie-Skłodowska University, Lublin, Poland
²Medical University of Gdańsk, Gdańsk, Poland
- P-81** **Determination of Selenoamino Acids by Ion-exchange Column Chromatography and by High Performance Liquid Chromatography**
Mándoki, Zs.¹, Pohn, G.¹, Lóki, K.¹, Albert, Cs.², Albert, B.²,
Csapó, Zs.¹, **Csapó, J.**^{1,2}
¹University of Kaposvár, Kaposvár, Hungary
²Sapientia – Hungarian University of Transylvania,
Miercurea-Ciuc, Romania
- P-82** **Additional Data (Serum Levels of Vitamin A, Vitamin E and Some Carotenoids) for Characterization of Antioxidant Status in Dialysed Elderly Patients and After Transplantation**
Matus, Z.¹, Strenger, J.², Papp, L.², Tóth, Gy.¹, Janssen, J.³
¹University of Pécs, Pécs, Hungary
²Gambro Healthcare Hungary, Budapest, Hungary
³Semmelweis University, Budapest, Hungary
- P-83** **The Influence of Temperature on Enantioseparation of Alkyl Aryl Sulfoxides Using Different Chromatographic Modes**
Meričko, D.¹, Lehotay, J.¹, Skačáni, I.¹, Armstrong, D.W.²
¹Slovak University of Technology, Bratislava, Slovak Republic
²University of Texas at Arlington, Arlington, TX, USA
- P-84** **Purification and Analysis of a 5 kDa Component of Enamel Matrix Derivative**
Mumulidu, A.¹, Hildebrand, B.¹, Fabi, B.¹, Hammarström, L.²,
Cochran, D.L.³, Dard, M.⁴, Lemoult, S.¹
¹BIORA AB, Malmö, Sweden
²Karolinska Institute, Stockholm, Sweden
³University of Texas, San Antonio, TX, USA
⁴Institut Straumann AG, Basel, Switzerland
- P-85** **Determination of Carvedilol, its Active Metabolite and Carvedilol Enantiomers in Human Plasma Using HPLC-MS/MS**
Nagy-Pethő, B., Balogh-Nemes, K.†
EGIS Pharmaceuticals Plc, Budapest, Hungary

- P-86** **The Role of TLC Methods in the Investigation of Diastereomeric Salt Forming Behavior Within a Group of Pipecolo-xylylides**
Nemák, K.¹, Fogassy, E.², Bényei, A.³, Hermeecz, I.¹
¹CHINOIN Co. Ltd., Budapest, Hungary
²Budapest University of Technology and Economics, Budapest, Hungary
³University of Debrecen, Debrecen, Hungary
- P-87** **Investigation of the Molecular Heterogeneity of Human Serum α 1-Acid Glycoprotein by Capillary Zone Electrophoresis in Malignant Diseases**
Németh, K., Kremmer, T., Visy, J.
HAS-Chemical Research Center, Budapest, Hungary
- P-88** **Measurement of Hydroxyl-Radical Formation in the Rat Striatum by In Vivo Microdialysis and Gas Chromatography–Mass Spectrometry**
Nguyen, V., Bonds, D., Prokai, L.
University of North Texas, Fort Worth, TX, USA
- P-89** **New Components from Silybum Marianum L. Fruits – A Theory Comes True
In Memoriam Prof. Szabolcs Nyiredy**
Nyiredy, Sz.†, Szűcs, Z.¹, Antus, S.², Samu, Zs.³
¹Research Institute for Medicinal Plants, Budakalász, Hungary
²University of Debrecen, Debrecen, Hungary
³Béres Pharmaceuticals Co. Ltd., Budapest, Hungary
- P-90** **Development of the SOS-LC Stationary Phase Optimization – from the Beginnings
In Memoriam Prof. Szabolcs Nyiredy**
Nyiredy, Sz.†, Szűcs, Z.
Research Institute for Medicinal Plants, Budakalász, Hungary
- P-91** **Evaluation of Major Triterpenes in Skins and Cuticular Waxes of Grape Berries by LC-MS**
Orbán, N.^{1,2}, Kozák, I.O.¹, Drávucz, M.¹, Kiss, A.¹
¹Egerfood Regional Knowledge Center, Eger, Hungary
²Eötvös Lorand University, Budapest, Hungary
- P-92** **Monitoring of Volatile and Non-volatile Salicylates in Filipendula ulmaria by Different Chromatographic Techniques**
Papp, I., Alberti, Á., Héthelyi, É., Szőke, É., Kéry, Á.
Semmelweis University, Budapest, Hungary

- P-93 Capillary Isoelectric Focusing of Dyes in Uncoated Capillary with UV and MS Detections**
Páger, Cs.¹, Rezeli, M.¹, Kilár, F.¹, Végvári, Á.²
¹University of Pécs, Pécs, Hungary
²Uppsala University, Uppsala, Sweden
- P-94 Food-drug Interaction Study on Ciprofloxacin in the Presence of Calcium and Low- or High-fat Milk**
Pápai, K., Budai, M., Ludányi, K., Antal, I., Klebovich, I.
Semmelweis University, Budapest, Hungary
- P-95 Adsorption Study of Phenol Derivatives from Aqueous Solution onto Graphite by Flow Calorimetry**
Pernyeszi, T.¹, Schlimper, H.², Klumpp, E.²
¹University of Pécs, Pécs, Hungary
²Research Institutes Jülich, Jülich Germany
- P-96 HPLC Enantioseparation of α -Amino Acids on Chiral Crown Ether and β -Cyclodextrin-based Stationary Phases**
Péter, A.¹, Berkecz, R.¹, Ilisz I.¹, Pataj, Z.¹, Fülöp, F.¹, HoHyun, M.²
¹University of Szeged, Szeged, Hungary
²Pusan National University, Busan, South Korea
- P-97 Pressurized Planar Electrochromatography - Influence of Sample Application Mode on Performance of the Separating System**
Płocharz, P.W., Ślęzak, P., Torbicz, A., **Dzido, T.H.**
Medical University of Lublin, Lublin, Poland
- P-98 2D-HPLC Analysis of Phenolic Acids in Some Species of the Genus Salix**
Pobłocka-Olech, L., Głód, D., Krauze-Baranowska, M.
Medical University of Gdańsk, Gdańsk, Poland
- P-99 Separation of Amino Acids with Aliphatic Side Chain by RP-HPLC, with Eliminating of the Disturbing Effect of Methionine by Performic Acid Oxidation**
Pohn, G.¹, Albert, Cs.², Albert, B.², Lóki, K.¹, Mándoki, Zs.¹, **Csapó, Zs.**¹, Csapó, J.^{1,2}
¹University of Kaposvár, Kaposvár, Hungary
²Sapientia –Hungarian University of Transylvania, Miercurea-Ciuc, Romania

- P-100** **Pressurized Planar Electrochromatography of Phenylalanine and Tyrosine Enantiomers**
Polak, B., Wojtanowski, K.K., Dzido, T.H.
Medical University of Lublin, Lublin, Poland
- P-101** **Pressurized Planar Electrochromatography of the Enantiomers of 3,4-Dihydroxybenzene Derivatives**
Polak, B., Wojtanowski, K.K., Dzido, T.H.
Medical University of Lublin, Lublin, Poland
- P-102** **HPLC-MS Method Development for Characterizing Fatty Acid Profile in Blood**
Pollreisz, F., Drahos, L., Nagy, K., Vékey, K.
HAS-Chemical Research Center, Budapest, Hungary
- P-103** **Chromatographic Analysis of Angiotensin Converting Enzyme Inhibitor – Ramipril and Its Impurities**
Popović, I.¹, Malenović, A.², Jančić, B.², Medenica, M.², Ivanović, D.²
¹Medicines and Medical Devices Agency of Serbia, Belgrade, Serbia
²Faculty of Pharmacy, Belgrade, Serbia
- P-104** **Fast GC-MS-PIONA Analysis of Light Petroleum Samples**
Pospisil, M., Novak, M., Simacek, P., Janda, V.
Institute of Chemical Technology, Prague, Czech Republic
- P-105** **HPTLC – Densitometric Analysis of Alkaloids from Different *Securinega Suffruticosa In-Vitro* Cultures**
Raj, D.¹, Łuczkiwicz, M.², Kokotkiewicz, A.², Cisowski, W.¹
¹Wroclaw Medical University, Wrocław, Poland
²Akademia Medyczna w Gdańsku, Gdańsk, Poland
- P-106** **On an Impact of Stirring on Profen Solutions. Low Reliability of Chromatographic Quantification of the Pure Profen Enantiomers and their Scalemic Mixtures**
Sajewicz, M., Gontarska, M., Kowalska, T.
University of Silesia, Katowice, Poland

- P-107 Thin Layer Chromatographic and Polarimetric Investigation of the Spontaneous Oscillatory *In Vitro* Transenantiomerization of L-Phenylalanine**
Sajewicz, M.¹, Gontarska, M.¹, Wojtal, Ł.¹, Epstein, I.R.², Kowalska, T.¹
¹University of Silesia, Katowice, Poland
²Brandeis University, Waltham, MA, USA
- P-108 Selective Staining of Amino Acids and Peptides with a New Staining Procedure in Thin Layer Chromatography**
Schulz, M., Hauck, H.E., Cremer, N., Leiss, D.
Merck KGaA Germany / PLS R&D, Darmstadt, Germany
- P-109 Advances in the Gas Chromatographic Mass Spectrometric Analysis of Pharmaceuticals, Present in the Aquatic Environment**
Sebók, Á., Vasanits-Zsigrai, A., Záray, Gy., Molnár-Perl, I.
Eötvös Loránd University of Sciences, Budapest, Hungary
- P-110 Bioactive Phenolic Compounds in Leaves of the Forsythia Species and Cultivars**
Sedlák, É., Boldizsár, I., Borsodi, L., Füzfai, Zs., Molnár-Perl, I., Preininger, É., Gyurján, I.
Eötvös Loránd University, Budapest, Hungary
- P-111 Comparison of Beta-Cyclodextrin Based and Fluorinated Stationary Phases in Separation of Haloacetic Acids**
Seres, G.¹, Zubovics, Z.¹, Bodor, N.²
¹IVAX Drug Research Institute, Budapest, Hungary
²University of Florida, Gainesville, FL, USA
- P-112 Utilization of Gas Chromatography for Complex Analysis of Hydroprocessed Rapeseed Oil**
Šimáček, P.¹, Pospíšil, M.¹, Šebor, G.¹, Kubička, D.²
¹Institute of Chemical Technology, Prague, Czech Republic
²Research Institute of Inorganic Chemistry, Ústí n/Labem, Czech Republic
- P-113 Quantitative Determination of Phenolic Acids in Different Extracts Obtained from Fruits of *Peucedanum Alsaticum* L. and *Peucedanum Cervaria* L. Lap.**
Skalicka-Woźniak, K., Głowniak, K., Szypowski, J., Widelski, J.
Medical University, Lublin, Poland

- P-114** **Development of Planar Chromatography Methods for Determination of 11 Mycotoxins in Biological Materials Combined with Immunoaffinity Chromatography Clean-up Step**
Skarkova, J., Ostry, V., Ruprich, J.
National Institute of Public Health in Prague, Brno, Czech Republic
- P-115** **Thin-Layer Chromatography as Analytical Method for Inclusion Complexes of Some Diuretics with Cyclodextrins**
Soica, C.¹, Gyéresi, Á.², Dehelean, C.¹, Aigner, Z.³, Kata, M.³
¹University of Medicine and Pharmacy „Victor Babes“ Timisoara, Timisoara, Romania
²University of Medicine and Pharmacy Tg-Mures, Tg-Mures, Romania
³University of Szeged, Szeged, Hungary
- P-116** **HPTLC Analysis of Catechins from Phyllanthus Grandifolius and P. Juglandifolius**
Sparzak, B., Krauze-Baranowska, M., Pobłocka-Olech, L.
Medical University of Gdańsk, Gdańsk, Poland
- P-117** **Determination of Fatty Acids in Diesel Oil by Gas Chromatography–Element Selective Detection**
Stumpf, Á.¹, Bohács, Gy.¹, Radics, G.², Kotschy, A.²
¹MOL Hungarian Oil & Gas PLC., Budapest, Hungary
²Eötvös Loránd University, Budapest, Hungary
- P-118** **GC-MS Method Development for the Analyses of Thiophenes from Solvent Extracts of Tagetes Patula L. Hairy Root Cultures**
Szarka, Sz.¹, Héthelyi, É.¹, Kuzovkina, I.N.², Szőke, É.¹
¹Semmelweis University, Budapest, Hungary
²RAS-Timiryazev Institute of Plant Physiology, Moscow, Russia
- P-119** **Detection of Fumonisin Contamination from Artificially Infected Maize Samples**
Szekeres, A.^{1,2,3}, Szécsi, Á.⁴, Toldi, T.É.¹, Tóth, B.¹, Mesterházy, Á.¹, Bartók, T.^{1,3}
¹Cereal Research Non-Profit Company, Szeged, Hungary,
²University of Szeged, Szeged, Hungary
³FumoPrep Ltd., Szeged, Hungary,
⁴HAS-Plant Protection Institute, Budapest, Hungary

- P-120 Application of Large Volume Injection to Analytes Covering Wide Boiling Point Range**
Szekeres, Z.¹, Volk, G.²
¹Eötvös Loránd University, Budapest, Hungary
²Wessling Hungary Ltd., Budapest, Hungary
- P-121 Prediction of Chiral Separations with Cyclodextrins Using Computational Tools**
Szemán, J.¹, Hazai, E.², Bikádi, Zs.², Hári, P.³, Iványi, R.¹, Varga, E.^{1,4}, Sente, L.¹
¹CycloLab Cyclodextrin R&D Lab. Ltd, Budapest, Hungary
²Virtua Drug Ltd, Budapest, Hungary
³Delta Elektronik Ltd, Budapest, Hungary
⁴Eötvös Loránd University, Budapest, Hungary
- P-122 Chiral Separation by HPLC: Normal or Reversed Phase?**
Szilágyi, E., Clementis, Gy.
EGIS Pharmaceuticals Plc, Budapest, Hungary
- P-123 Development of Capillary Electrophoresis Method for the Determination of Lysine Decarboxylase Enzyme Activity in Saliva Samples**
Tábi, T.¹, Lohinai, Zs.¹, Pálfi, M.¹, Levine, M.², Szökő, É.¹
¹Semmelweis University, Budapest, Hungary
²University of Oklahoma, Oklahoma City, OK, USA
- P-124 Development of an HPLC-MS/MS Method to Determine Risedronate in Human Plasma**
Tarcomnicu, I.¹, Silvestro, L.², Boaru, I.¹, Tudoroni, A.¹, Rizea Savu, S.²
¹Pharma Serv Int'l SRL, Bucharest, Romania
²3S-Pharmacological Consultation & Research GmbH., Harpstedt, Germany
- P-125 High Performance Anion Chromatography of Metal-Chelate Complexes, Organic and Inorganic Anions**
Tófalvi, R.¹, Carlo, R.M.², **Horváth, K.**¹, Sarzanini, C.², Bruzzoniti, M.², Hajós, P.¹
¹University of Pannonia, Veszprém, Hungary
²University of Torino, Torino, Italy
- P-126 Simultaneous Determination of Artificial Sweeteners, Preservatives and Caffeine in Beverages by Rapid Resolution Liquid Chromatography**
Tölgyesi, L.
Eötvös Loránd University, Budapest, Hungary

- P-127 Separation of Some Pesticide Mixtures by Pressurized Planar Electrochromatography**
Tuzimski, T., Boguta, P., Dzido, T.H.
Medical University of Lublin, Lublin, Poland
- P-128 Comparison of Different Kinds of Sorbents for the SPE to Optimization Procedure of Determination of Pesticides in Water**
Tuzimski, T., Sobczyński, J.
Medical University of Lublin, Lublin, Poland
- P-129 Application of SPE and Planar Chromatography with Diode Array Detection to the Determination of Dyes in Food**
Tuzimski, T., Woźniak, A., Dzido, T.H.
Medical University of Lublin, Lublin, Poland
- P-130 Analysis of Tocopherol and Tocotrienol Isomers of Different Sunflower Origin Samples**
Uhrin, H.N.¹, Sas, J.², Máthé, E.¹, Dinya, Z.¹, Varga, Cs.¹, Vágvölgyi, S.¹
¹College of Nyíregyháza, Nyíregyháza, Hungary
²Central Region of Tisza Agricultural Ltd., Kunhegyes, Hungary
- P-131 Synthesis, Purification and Characterisation of Potent Anti-inflammatory Peptidomimetics**
Varga, A.¹, Huszár, M.¹, Horváth, A.¹, Seprődi, J.¹, Bökönyi, Gy.¹, Tanai, H.¹, Pintér, E.², Szolcsányi, J.², Kéri, Gy.¹
¹Semmelweis University, Budapest, Hungary,
²University of Pécs, Pécs, Hungary
- P-132 Synthesis, Characterization AND HPLC Behavior of Organotin(IV) Compounds, $\text{BunSnCl}[(\text{SePPh}_2)_2\text{N}]_3\text{-n}$ (n=1, 2)**
Vlassa, M.¹, Filip, M.¹, Rotar, A.², Coman, V.¹, Silvestru, A.²
¹“Raluca Ripan” Institute for Research in Chemistry, Cluj-Napoca, Romania
²Babeş-Bolyai University, Cluj-Napoca, Romania

MP-1 – MP-13 See in Poster Section I.

20:00 Grill Party – Garden of the Hotel Azúr
Music: Pilischer Sramli Band

Parallel Session VII**Chairs: Kenndler, E., Kremmer, T.**

- 8:30-9:00** **Enantioseparation of Acidic and Basic Drug Compounds in
L-36 Non-Aqueous Capillary Electrophoresis with Charged
Cyclodextrin Derivatives as Chiral Additives**
Crommen, J., Rousseau, A., Fillet, M., Servais, A.C.
University of Liège, Liège, Belgium
- 9:00-9:30** **Advanced Column Technology and Instrumentation in
L-37 Capillary Liquid Chromatography**
Welsch, T.
Ulm University, Ulm, Germany
- 9:30-9:50** **Sub-2 μ m Particle Packed Columns in Ultra Performance
L-38 Liquid Chromatography**
**Kele, M., Wyndham, K.D., Xu, Y., Neue, U.D., Iraneta, P.,
Walter, T.H.**
Waters Corporation, Milford, MA, USA
- 9:50-10:10** **High Temperature Liquid Chromatography – A Versatile Tool
L-39 for Increasing Throughput and Enabling Special Hyphenation
Techniques**
Teutenberg, T., Tuerk, J., Giegold, S., Holzhauser, M.
Institute of Energy and Environmental Technology (IUTA),
Duisburg, Germany
- 10:10-10:25** **Novel Sample Handling Techniques in Gas Chromatography to
ML-5 Enhance Detection Limits and Improve Performance and
Reliability. Fast GC Applications Using the New Clarus 600
GC/MS**
Santoro, M.
PerkinElmer LAS., Monza, Italy,
- 10:25-10:55** **Coffee Break & Exhibition**

Parallel Session VIII

Chairs: McCalley, D.V., Dondi, F.

- 8:30-9:00** **The Influence of Mobile Phase in HPSEC of Small
L-40** **Non-Polymeric Compound**
 Šegudović, N.
 INA-INDUSTRIJA NAFTE, Zagreb, Croatia
- 9:00-9:30** **The Application of Imprinted Polymers in Sample Preparation.**
L-41 **Lehotay, J.¹, Karasová, G.¹, Lachová, M.¹, Armstrong, D.W.²**
 ¹Slovak University of Technology, Bratislava, Slovak Republic.
 ²University of Texas at Arlington, Arlington, TX, USA
- 9:30-9:50** **Multidimensional Separation Methods for Mass Spectrometry-
L-42** **Based Protein Expression and Modification Profiling from Tissue**
 Stevens, Jr. S.M., Prokai, L.
 University of North Texas, Fort Worth, TX, USA
- 9:50-10:10** **Divergent Flow Isoelectric Focusing**
L-43 **Šlais, K.**
 UIACh AV ČR v.v.i., Brno, Czech Republic
- 10:10-10:25** **Transportation of Biopharmaceutical Materials**
ML-6 **Rébi-Sokhegyi, M.**
 World Courier Hungary Ltd., Budapest, Hungary
- 10:25-10:55** **Coffee Break & Exhibition**

Plenary Session III

Chairs: Frank, H., Crommen, J.

- 10:55-11:25 L-44 Theoretical and Practical Comparison of One-dimensional and Comprehensive Two-dimensional Chromatographic Techniques**
Sandra, P.J.^{1,2}, François, I.¹, David, F.²
¹Ghent University, Ghent, Belgium.
²Research Institute for Chromatography, Kortrijk, Belgium.
- 11:25-11:55 L-45 Close Encounters of the LC/NMR/MS Kind: The Separation Scientist's Guide to Hyphenated NMR**
Szántay, Cs.
Gedeon Richter Plc., Budapest, Hungary
- 11:55-12:25 L-46 The Current Evolution of Column Technology Toward Multidimensional HPLC**
Guiochon, G., Marchetti, N., Mriziq, K.
University of Tennessee, Knoxville, TN, USA
Oak Ridge National Laboratory, Oak Ridge, TN, USA

Poster Award Ceremony

- 12:25-12:45 Sandra, P.J.**
President of Poster Award Committee, Gent, Belgium

Closing Remarks

- 12:45-13:00 Frank, H.**
President of the European Society for Separation Sciences,
Bayreuth, Germany
- Šegudović, N.**
Representative of the Central European Group for Separation
Sciences, Zagreb, Croatia
- Klebovich, I.**
President of the Hungarian Society for Separation Sciences,
Budapest, Hungary

13:00 Lunch

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Phone: +36 1 347 6060
Fax: +36-1-347-6068
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Hungary
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www.messer.hu

MOLNAR-INSTITUTE for Applied Chromatography

D-10407 Berlin, Schneeglöckchen St. 47.
Germany
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Fax: +49 30 421 559 99
E-mail: info@molnar-institut.com
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Vincellér Ltd. Laboratory Division

H-1124 Budapest, Bűrök St. 7.
Hungary
Phone: +36 30 921 4342
Fax: +36 1 375 8385
E-mail: office@la-bor.hu
www.la-bor.hu

Waters Corporation

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USA
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Hungary
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