

SESSION I (WEDNESDAY, JUNE 3RD, 2009.

CHAIRPERSONS: W. Lindner and Y. Vander Heyden

9:25 – 9:30 am OPENING ADDRESS

9:30 – 10:00 am

1. PERFORMANCE OF HPLC COLUMNS PACKED WITH VERY FINE PARTICLES. CONSEQUENCES OF THE HEAT EFFECT

F. Gritti, J. Kostka, K. Kaczmarek, G. Guiochon

10:00 – 10:30 am

2. NEW CHIRAL STATIONARY PHASES FOR LIQUID-PHASE ENANTIOSEPARATION TECHNIQUES

B. Chankvetadze

10:30 – 11:00 am

3. ON THE ROLE OF THIN-LAYER CHROMATOGRAPHY IN STUDYING REACTION MECHANISMS: SELECTED EXAMPLES OF CONDENSATION

M. Sajewicz, M. Leda, T. Kowalska, M. Matlengiewicz,
D. Kronenbach, M. Gontarska, I.R. Epstein

11:00 – 11:30 am COFFEE BREAK

SESSION II WEDNESDAY, JUNE 3RD, 2009.

CHAIRPERSONS: G. Guiochon and T. Kowalska

11:30 – 12:00 am

4. SELECTIVITY AS THE DRIVING FORCE FOR THE POWER OF LIQUID CHROMATOGRAPHY

W. Lindner, W. Bicker, M. Lämmerhofer

12:00 am – 0:30 pm

5. MICROCOLUMN TECHNOLOGIES FOR INNOVATIVE SEPARATION SCIENCE

B. Zhang

0:30 – 1:00 pm

6. OPTIMIZATION OF CHROMATOGRAPHIC SYSTEMS FOR ANALYSIS OF BASIC ANALYTES AND DETERMINATION OF THEIR LIPOPHILICITY PARAMETERS

A. Petruczynik, M. Waksmundzka-Hajnos

1:00 – 1:30 pm

7. BIOANALYTICAL POSSIBILITIES IN FOOD-DRUG INTERACTION RESEARCH

I. Klebovich, K. Pápai, M. Budai, K. Ludányi, I. Antal

1:30 pm LUNCH

POSTER SESSION I WEDNESDAY, JUNE 3RD, 2009.

CHAIRPERSONS: M. Sajewicz and Ž.Lj. Tešić

3:00 – 5:00 pm

Bonfire 6:00 pm

SESSION III THURSDAY, JUNE 4TH, 2009.

CHAIRPERSONS: B. Chankvetadze and I. Klebovich

9:30 – 10:00 am

8. CHEMOMETRIC ANALYSIS OF GEL ELECTROPHEROGRAMS

B. Walczak

10:00 – 10:30 am

9. HERBAL FINGERPRINTS: DEVELOPMENT AND EXTRACTION OF INFORMATION

Y. Vander Heyden

10:30 11:00 am

10. THE NOISE PROBLEM IN THIN LAYER CHROMATOGRAPHY – THEORY AND METHODS OF ITS SUPPRESSING

Ł. Komsta

11:00 – 11:30 am COFFEE BREAK

SESSION IV THURSDAY, JUNE 4TH, 2009.

CHAIRPERSONS: D. Agbaba and B. Walczak

11:30 – 12:00 am

11. ADVANTAGES AND COSTS OF TWO-DIMENSIONAL HPLC

G. Guiochon, K. Horvath, J. Fairchild

12:00 am – 0:30 pm

12. CAPILLARY ELECTROPHORESIS AS AN ALTERNATIVE OR COMPLEMENTARY TECHNIQUE TO HPLC FOR THE QUALITY CONTROL OF PHARMACEUTICALS

H. Fabre

0:30 – 1:00 pm

13. QUALITY OF PHARMACEUTICALS

L.A. Beaver

1:00 pm LUNCH

POSTER SESSION II THURSDAY, JUNE 4TH, 2009.

CHAIRPERSONS: B.K. Głód and M. Hajnos

3:00 – 5:00 pm

SESSION V FRIDAY, JUNE 5TH, 2009.

CHAIRPERSONS: M. Waksmundzka-Hajnos and A. Voelkel

9:00 – 9:30 am

14. ON THE DIFFERENTIAL LIPOLYTIC CAPABILITIES OF DIVERSE TISSUES FROM YOUNG ADULT GUINEA PIG. A CHROMATOGRAPHIC STUDY

F. M. Helmy

9:30 – 10:00 am

15. CHARACTERISTICS OF CITRUS FRUITS: RESULTS OF THE STUDIES *IN VITRO* BY CHROMATOGRAPHY, AND *IN VIVO* ON PATIENTS SUFFERING FROM ATHEROSCLEROSIS

S. Gorinstein, J. Namieśnik, Z. Jastrzębski, H. Leontowicz, M. Leontowicz, J. Drzewiecki, Z. Zachwieja, A. Gorinstein, S. Trakhtenberg

10:00 – 10:30 am

16. CHROMATOGRAPHIC APPLICATIONS OF RECURRENT RELATIONS

I.G. Zenkevich

10:30 – 11:00 am COFFEE BREAK

SESSION VI FRIDAY, JUNE 5TH, 2009.

CHAIRPERSONS: S. Gorinstein and I. Zenkevich

11:00 – 11:30 am

17. QUALITY ASSURANCE OF *BOSWELLIA* RESINS BY TLC AND GC-MS

A. Koch

11:30 – 12:00 am

**18. APPLICATION OF PRESSURIZED PLANAR
ELECTROCHROMATOGRAPHY FOR CHIRAL SEPARATIONS**

B. Polak

12:00 am – 0:30 pm

**19. ONE-DIMENSIONAL CHROMATOGRAPHY VS SPECIAL MODES OF
DEVELOPMENT FOR CONSTRUCTION OF MEDICINAL PLANT
FINGERPRINTS**

Ł. Cieśla, M. Waksmundzka-Hajnos

0:30 pm -1:00 pm

20. MOLECULAR MASS ANALYSIS OF STAR-SHAPED POLYMERS

A. Swinarew, B. Piekarnik, A. Stolarzewicz

1:00 CLOSING REMARKS

1:30 pm LUNCH

Poster session I

1.

HSP FOR PHARMACEUTICAL ACTIVE SUBSTANCES BY MEANS OF IGC

K. Adamska, A. Voelkel

2.

QUANTITATIVE STRUCTURE-RETENTION RELATIONSHIPS OF SOME SCHIFF BASE LIGANDS AND THEIR COMPLEXES BY THIN LAYER CHROMATOGRAPHY ON SILICA GEL

R..M. Baošić, A.D.Radojević, Ž.Lj. Tešić

3.

A VERY FAST AND SIMPLE METHOD FOR THE ANALYSIS OF SULFONAMIDES IN SOIL SAMPLES BY LC-MS/MS IN THE MRM MODE

A. Białk, K. Kornowska, J. Kumirska, R. Palavinskas, P. Stepnowski

4.

THERMODYNAMICS OF INTERACTIONS OF OLEFINS WITH STATIONARY PHASES CONTAINING Co(II) AND Ni(II) SALTS CHEMICALLY BONDED TO SILICA

P. Bielecki, I. Rykowska, W. Wasiak

5.

INTERACTIONS AMONG ELECTRON-DONOR COMPOUNDS AND PACKINGS MODIFIED WITH CYCLAM-TRANSITION METAL COMPLEXES

P. Bielecki, W. Wasiak

6.

EVALUATION OF APPLICABILITY OF SPME/HPLC IN TRACE ANALYSIS OF EXPLOSIVES

R. Borusiewicz, J. Zięba-Palus, G. Zadora

7.

DEVELOPMENT AND EVALUATION OF HPLC METHOD FOR DETERMINATION OF LAMOTRIGINE IN SERUM

A. Chmielewska, L. Konieczna, A. Plenis, H. Lamparczyk

8.
APPLICATION OF DIFFERENT HPLC DETECTORS FOR ESTIMATION OF
DRUG SUBSTANCES CONCENTRATION IN HUMAN BLOOD
A. Chmielewska, L. Konieczna, A. Plenis, H. Lamparczyk
9.
CHROMATOGRAPHIC SEPARATION AND ISOLATION OF
ARYLSTILBAZOLIUM *CIS/TRANS* ISOMERS
I. Czerwieńska, B. Juskowiak
10.
SALTING-OUT THIN-LAYER CHROMATOGRAPHY OF SOME PYRIDINIUM
SALTS
D.Č. Dabić, J. Tatar, M. Baranac, R. Marković, M.M. Natić, D.
Milojković- Opsenica, Ž.Lj. Tešić
11.
THE COMPARATIVE ANALYSIS OF TWO-DIMENSIONAL
CHROMATOGRAPHIC SIGNALS WITHOUT PRIOR SIGNALS ALIGNMENT
M. Daszykowski, R. Danielsson, B. Walczak
12.
CHEMOMETRICS IN COMPARATIVE ANALYSIS OF CHROMATOGRAPHIC
FINGERPRINTS OF THE EXTRACTS FROM DIFFERENT SAGE (*SALVIA L.*)
SPECIES
M. Daszykowski, Ł. Wojtal, D. Staszek, M. Hajnos, M. Sajewicz,
T. Kowalska, M. Waksmundzka-Hajnos, B. Walczak
13.
PUTRESCINE – A PRECURSOR FOR THE FORMATION OF *N*-NITROSAMINES
IN THE COURSE OF MEAT PROCESSING?
G. Drabik-Markiewicz, E. De Mey, T. Kowalska, W. Verschelde,
H. Paelinck, S. Impens

14.
METHODS OF DETERMINATION OF SELECTED PRIORITY SUBSTANCES IN
SAMPLES CHARACTERIZING WATER ENVIRONMENT – INFLOWING
WATERS, SEDIMENTS AND ALLUVIUM
I. Fulara, J. Wypych
15.
DETERMINATION OF LIPIDS FROM *DENDROLIMUS PINI* EXUVIAE
OBTAINED FROM LARVAL - LARVAL MOULT BY HPLC-LLSD AND
GLC-MS
M. Gołębiowski, M. Boguś, M. Paszkiewicz, A. Mika, P. Stepnowski
16.
VALIDATION METHOD FOR DETERMINATION OF PERFLUORINATED
CARBOXYLIC ACID BY GAS LIQUID CHROMATOGRAPHY
M. Gołębiowski, E.M. Siedlecka, M. Paszkiewicz, J. Kumirska,
P. Stepnowski
17.
QUALITATIVE HPLC ANALYSIS OF PHENOLICS IN MOLDAVIAN
DRAGONHEAD (*DRACOCEPHALUM MOLDAVICA* L.) IN DIFFERENT PLANT
ORGANS
M.Ł. Hajnos, S. Kwiatkowski, T. Wolski, K. Głowniak
18.
APPLICATION OF GAS CHROMATOGRAPHY IN EXPERIMENTS OF
HYDROGEN PRODUCTION IN STEAM-GASIFICATION OF CARBONACEOUS
MATERIALS
N. Howaniec, A. Smoliński
19.
DETERMINATION OF POLYCYCLIC AROMATIC HYDROCARBONS BY GAS
CHROMATOGRAPHY WITH MASS SPECTROMETRIC DETECTION
M. Kapusta, T. Kordas, J. Tarnowska

20.
ANALYSIS OF NICKEL COMPLEXES WITH SCHIFF BASE LIGANDS USING HPLC ASSAY WITH UV AND ELECTROCHEMICAL DETECTORS
I. Kiersztyn, A. Siłak, P. Piszcz, K. Kurzak, B.K. Głód
21.
COMPARISON OF HIGH-PERFORMANCE LIQUID CHROMATOGRAPHY AND CAPILLARY ELECTROPHORESIS IN QUANTITATIVE ANALYSIS OF FEXOFENADINE HYDROCHLORIDE IN HUMAN PLASMA
L. Konieczna, P. Kowalski, A. Plenis, I. Olędzka
22.
HPLC/UV VALIDATED METHOD FOR SIMULTANEOUS DETERMINATION OF TESTOSTERONE AND EPITESTOSTERONE IN HUMAN URINE
L. Konieczna, A. Plenis, I. Olędzka, P. Kowalski
23.
COMPARISON OF DERIVATIZATION AGENTS FOR DETERMINATION OF NON-STEROIDAL ANTI-INFLAMMATORY DRUGS BY GC METHODS
N. Kotlewska, J. Kumirska, M. Paszkiewicz, M. Gołębiowski, P. Stepnowski
24.
VALIDATION OF HEAT AND MASS TRANSFER MODEL FOR CHROMATOGRAPHIC COLUMN WORKING UNDER VERY HIGH PRESSURE DROP
J. Kostka, F. Gritti, W. Zapała, K. Kaczmarski, G. Guiochon
25.
OPTIMALIZATION OF THE CHROMATOGRAPHIC CONDITIONS FOR THE TRACE ANALYSIS OF ENROFLOXACIN BY HPLC WITH UV-VIS DETECTION
J.. Kumirska, A. Białk, M. Kołodziejaska, N. Kotlewska, M. Paszkiewicz, P. Stepnowski

26.

APPLICATION OF CHROMATOGRAPHIC METHODS FOR DETERMINATION OF THE HETEROGENEITY STRUCTURE OF *SALMONELLA* TELAVIV O-POLYSACCHARIDE

J.Kumirska, E. Lubecka, N. Kotlewska, M. Czerwicka, M. Paszkiewicz, M. Gołębiowski, H. Dziadziuszko, D. Kunikowska, P. Stepnowski

27.

INFLUENCE OF MUTUAL SOLUBILITY OF ORGANIC SOLVENTS ON SELECTIVITY OF CHROMATO-PARTITION METHOD

A.S. Kushakova, I.G. Zenkevich

28.

DEALING WITH CENSORED DATA IN THE CHEMOMETRIC ANALYSIS OF CHROMATOGRAPHIC DATA

M. Lelątko, I. Stanimirova, B. Walczak

29.

APPLICATION OF ION CHROMATOGRAPHY WITH CONDUCTOMETRIC DETECTION FOR SEPARATION AND ANALYSIS OF IONIC LIQUID MIXTURES WITH SIMPLE INORGANIC IONS, INORGANIC AND IONIC LIQUID CATIONS

A. Markowska, S. Stolte, P. Stepnowski

30.

WEALTH OF NUTRIENTS IN THE ABDOMEN'S MUSCLE IN BALTIC SHRIMP *CRANGON CRANGON* DETECTED BY HPLC-LLSD, MALDI-TOF AND GLC-MS TECHNIQUES

A. Mika, M. Gołębiowski, P. Stepnowski, E. Skorkowski

Poster session II

31.

NON COVALENT CAPILLARY COATING WITH HIGH MOLECULAR WEIGHT POLYELECTROLYTES FOR PEPTIDE AND PROTEIN ANALYSIS

R. Nehmé, C. Perrin, H. Cottet, M.D. Blanchin, H. Fabre

32.

DETERMINATION OF CORTISOL IN HUMAN URINE SAMPLES BY MICELLAR ELECTROKINETIC CHROMATOGRAPHY

I. Olędzka, P. Kowalski, A. Plenis, L. Konieczna

33.

NEW SPME FIBER FOR QUALITATIVE ANALYSIS OF VOLATILE COMPOUNDS IN PRINTING INKS

M. Palacz, K. Jarzembowska, W. Wasiak

34.

APPLICATION OF THE SIMPLEX-HPLC METHOD FOR THE SEPARATION OF SELECTED IMIDAZOLIUM IONIC LIQUID CATIONS

M. Paszkiewicz, J. Nichthausser, M. Gołębiowski, Andrzej C. Składanowski, P. Stepnowski

35.

SIMPLE THIN-LAYER CHROMATOGRAPHIC METHOD FOR THE DETERMINATION OF RANITIDINE AND ITS PHARMACEUTICAL FORMULATIONS: APPLICATION TO THE ANALYSIS OF PRODUCTS OF THEIR PHOTOLYTIC DEGRADATION

P. Pikul, J. Nowakowska, J. Łukasiak

36.

USE OF POLAR AND NON-POLAR STATIONARY PHASES FOR DETERMINATION OF SELECTED FLAVONOIDS

P. Pikul, J. Nowakowska, J. Łukasiak

37.

HPLC TOTAL ANTIOXIDANT POTENTIAL ASSAY BASED ON HYDROXYL RADICALS REACTION WITH *p*-HYDROXYBENZOIC ACID

P. Piszcz, A. Beta, I. Kiersztyn, B.K. Głód

38.

RAPID DETERMINATION OF LORATADINE IN HUMAN SERUM BY HIGH-PERFORMANCE LIQUID CHROMATOGRAPHIC METHOD WITH FLUORESCENCE DETECTION

A. Plenis, L. Konieczna, I. Olędzka, P. Kowalski

39.

HYDROPHILIC INTERACTION PLANAR CHROMATOGRAPHY OF SOME ANAESTHETICS

A. Radoičić, J. Trifković, D.M. Milojković-Opsenica, Ž.Lj. Tešić, D. Vučović, M. Aleksić

40.

DETERMINATION OF TIOCTIC ACID IN DRUG FORMULATIONS AND IN DIETARY SUPPLEMENT PREPARATIONS

N. Ravanić, K. Nikolić, G. Popović, I. Vovk, B. Simonovska, D. Agbaba

41.

ESSENTIAL OIL CONSTITUENTS OF *SCHINUS TEREBINTHIFOLIUS* RADDI

R. Richter, A. Koch

42.

APPLICATION OF DIMETHYL SULPHOXIDE AND HEXAMETHYLDISILOXANE AS MODIFIERS OF MOBILE PHASES IN TLC

P. Rogulski, J. Nowakowska

43.

ON SPONTANEOUS OSCILLATORY CHIRAL CONVERSION OF DIFFERENT CARBOXYLIC ACIDS IN AQUEOUS MEDIA

M. Sajewicz, M. Leda, M. Matlengiewicz, M. Gontarska, D. Kronenbach, M. Wróbel, A. Sekuła, T. Kowalska, I.R. Epstein

44.

EXPERIMENTAL EVIDENCE OF A SPONTANEOUS CONDENSATION OF PROFENS, AMINO ACIDS AND HYDROXY ACIDS IN AQUEOUS ETHANOL

M. Sajewicz, M. Matlengiewicz, D. Kronenbach, M. Gontarska, A. Noworzyn, A. Ostrowska, T. Kowalska

45.
A COMPARISON OF THE EFFICIENCY OF RETRIEVING VOLATILE
CONSTITUENTS FROM THE DIFFERENT SAGE (*SALVIA L.*) SPECIES
M. Sajewicz, J. Rzepa, Ł. Wojtal, D. Staszek, M. Hajnos,
T. Kowalska, M. Waksmundzka-Hajnos
46.
A COMPARISON OF THE PHENOLIC ACID AND FLAVONOID CONTENTS IN
TWENTY DIFFERENT SAGE (*SALVIA L.*) SPECIES BY MEANS OF
TLC/DENSITOMETRY
M. Sajewicz, D. Staszek, Ł. Wojtal, A. Mikołajek, Ł. Cieśla,
M. Waksmundzka-Hajnos, T. Kowalska
47.
A COMPARISON OF THE PHENOLIC ACID AND FLAVONOID CONTENTS IN
TWENTY DIFFERENT SAGE (*SALVIA L.*) SPECIES BY MEANS OF
HPLC/DAD
M. Sajewicz, D. Staszek, Ł. Wojtal, K. Mitera,
M. Waksmundzka-Hajnos, T. Kowalska
48.
THE ANALYSIS OF ESSENTIAL OILS CONTAINED IN THE DIFFERENT SAGE
(*SALVIA L.*) SPECIES BY MEANS OF TLC/DENSITOMETRY
M. Sajewicz, Ł. Wojtal, D. Staszek, Ł. Krzystanek, M. Hajnos,
T. Kowalska, M. Waksmundzka-Hajnos
49.
IDENTIFICATION OF PRODUCTS OBTAINED BY FENTON'S METHOD
DEGRADATION OF IONIC LIQUIDS USING GLC-MS
E. M. Siedlecka, M. Gołębiowski
50.
DETERMINATION OF IONIC LIQUIDS IN THE PRESENCE OF
PERFLUOROCARBOXYLIC ACIDS IN WATER SOLUTION BY HPLC
E.M. Siedlecka, M. Gołębiowski, P. Stepnowski, P. Glamowski

51.
RETENTION MECHANISM OF CARBOXYLIC ACIDS ON DIFFERENT HPLC
PHASES

M. Skwarek, P. Wantusiak, P. Piszcz, B.K. Głód

52.
CHEMOMETRIC APPROACH TO INVESTIGATION OF CORRELATIONS BETWEEN
CHROMATOGRAPHIC AND ACTIVITY DATA OF SOME NEWLY SYNTHESIZED S-
TRIAZINE DERIVATIVES

A. Smolinski, T. Djaković-Sekulić

53.
DETERMINATION OF BIOMASS REACTIVITY USING GAS
CHROMATOGRAPHY

A. Smoliński, N. Howaniec

54.
QUALITY CONTROL OF GC IDENTIFICATION OF CYCLOHEXANE
CHLORINATION PRODUCTS IN REACTION MIXTURES

A.I. Ukoloy, E.V. Eliseenkov, A.N. Kasatochkin, I.G. Zenkevich

55.
INVERSE GAS CHROMATOGRAPHY: AN INSIGHT INTO
PHYSICOCHEMICAL PROPERTIES OF NANOMATERIALS

Voelkel A.

56.
APPLICATION OF HPLC ASSAY TO THE MEASUREMENTS OF TOTAL
ANTIOXIDANT POTENTIAL OF HONEY AND MEAD

P. Wantusiak, M. Skwarek, P. Piszcz, B.K. Głód

57.
ANALYSIS OF LIGHT HYDROCARBONS ON CAPILLARY COLUMNS
COATED WITH ADSORBENT OF ELECTRON-DONOR –ACCEPTOR
PROPERTIES

R. Wawrzyniak, M. Palacz, K. Dominiak, W. Wasiak

58.

COMPARATIVE ANALYSIS OF CHROMATOGRAPHIC DATA

M. Wróbel, Ł. Komsta, M. Daszykowski, B. Walczak

59.

COMPARISON OF RETENTION BEHAVIOUR OF SELECTED ANALYTES
IN HYPERSIL GOLD™ AND HYPERSIL GOLD AQ™ LC COLUMNS

W. Zapła, K. Kaczmarski

60.

DEPENDENCE OF CHROMATOGRAPHIC RETENTION INDICES ON A RATIO
BETWEEN AMOUNTS OF TARGET AND REFERENCE COMPOUNDS

I.G. Zenkevich, E.S. Ivleva

61.

CHROMATOGRAPHIC INVESTIGATION OF THE FORMATION OF 5-(4-
ACETAMIDOPHENYL)-10,15,20-TRIPYRIDYLOPORPHYRIN

A. Kruszewska, J. Habdas

62.

CHROMATOGRAPHIC INVESTIGATION OF THE FORMATION OF 5-(4'-
CARBOXYPHENYL)-10,15,20-TRIS-(4PYRIDYL)-PORPHYRIN

A. Strzodka, J. Habdas