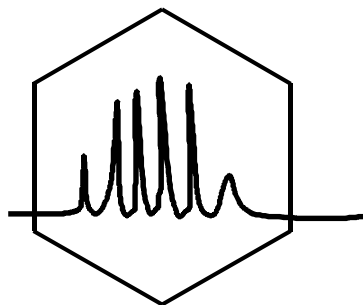


**INSTITUTE OF CHEMISTRY, UNIVERSITY OF SILESIA,  
KATOWICE, POLAND**



**THE XXXVII<sup>th</sup>  
SYMPOSIUM**

**CHROMATOGRAPHIC METHODS  
OF INVESTIGATING THE ORGANIC COMPOUNDS**

**JUNE 11<sup>th</sup> -13<sup>th</sup>, 2014**

**KATOWICE – SZCZYRK  
POLAND**

**PROGRAM**

## **SCIENTIFIC COMMITTEE OF THE SYMPOSIUM**

Teresa Kowalska (Katowice, Poland)  
Jarosław Polański (Katowice, Poland)  
Josef Jampilek (Brno, Czech Republic)  
Huba Kalasz (Budapest, Hungary)  
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Hubert Paelinck (Ghent, Belgium)  
Jerzy Silberring (Kraków, Poland)  
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Živoslav Tešić (Belgrade, Serbia)  
Monika Waksmundzka-Hajnos (Lublin, Poland)  
Irene Vovk (Ljubjana, Slovenia)  
Christian Zidorn (Innsbruck, Austria)

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Violetta Kozik (Katowice, Poland)  
Marcin Rojkiewicz (Katowice, Poland)  
Andrzej Bąk (Katowice, Poland)

**SESSION I WEDNESDAY, JUNE 11<sup>th</sup>, 2014**

**CHAIRPERSONS:** Monika Waksmundzka-Hajnos and Imre Klebovich

**9.25 – 9.30 am OPENING ADDRESS**

**9.30 – 10.00 am**

**1.** LC and EC-FAPA - novel applications

J. Silberring

**10.00 – 10.30 am**

**2.** Methods resulting in specific enrichment of solutes

H. Kalasz

**10.30 -11.00 am**

**3.** Application of chromatography in analysis of microtraces – case examples

G. Zadora

**11.00 – 11.30 am**

**4.** In-needle technique - the efficiency of the new extraction systems

M. Pietrzyńska

**1.00 pm LUNCH**

## **SESSION II WEDNESDAY, JUNE 11<sup>th</sup>, 2014**

**CHAIRPERSONS:** Huba Kalasz and Josef Jampilek

### **2.00 – 2.30 pm**

5. Odor and aroma analysis: combining chemical-analytical and human detection

J. Van Durme

### **2.30 – 3.00 pm**

6. Recent status of the extraction of biogenic amines from cancer samples. Is automation of this major step of an experimental workflow within our reach?

N. Miękus

### **3.00 – 3.30 pm**

7. Fast breath analysis by the use of GC/MS supported with novel porous polymeric materials for bio applications

A. Swinarew

### **3.30 – 4.00 pm**

8. Extraction of tricyclic antidepressants from plasma using supported liquid extraction plates

M. Danch - ABL&E JASCO Polska

## **POSTER SESSION I WEDNESDAY, JUNE 11<sup>th</sup>, 2014**

**CHAIRPERSONS:** Agnes Móricz and Łukasz Cieśla

### **4.00 – 5.00 pm**

**4.00 – 5.00 pm COFFEE BREAK**

### **6.00 pm BONFIRE**

**SESSION III THURSDAY, JUNE 12<sup>th</sup>, 2014**

**CHAIRPERSONS:** Jerzy Silberring and Hubert Paelinck

**9.30 – 10.00 am**

**9.** Bioanalytics / radiobioanalytics and imaging techniques in drug metabolism research: Overview of modern aspects and novel techniques

I. Klebovich

**10.00 – 10.30 am**

**10.** Effect – directed analysis: Bioautography – principle of the method and applications

I. Choma

**10.30 – 11.00 am**

**11.** Liquid-chromatography mass spectrometry for food authenticity assessment

Ž. Tešić

**10.30 – 11.00 am**

**12.** Planar chromatography-direct bioautography - an effective tool for bio-monitoring

A. Móricz

**1.00 pm LUNCH**

**SESSION IV THURSDAY, JUNE 12<sup>th</sup>, 2014**

**CHAIRPERSONS:** Živoslav Tešić and Łukasz Komsta

**2.00 - 2.30 pm**

**13.** Preparative Layer Chromatography (PLC) and its use in phytochemistry

M. Waksmundzka-Hajnos

**2.30 – 3.00 pm**

**14.** Chromatographic methods for analysis of triterpenoids and phytosterols in plant epicuticular waxes

I. Vovk

**3.00 – 3.30 pm**

**15.** Bioactive natural compounds in vegetables: *Scorzonera hispanica* L. (black salsify) and Apiaceae vegetables carrot, celery, fennel, parsley, and parsnip

Ch. Zidorn

**3.30 - 4.00 pm**

**16.** Novel techniques of chromatography coupled with tandem mass spectrometry as a universal tool for analysis of organic compounds

P. Stalica - Shim-pol A. Borzymowski

**POSTER SESSION II THURSDAY, JUNE 12<sup>th</sup>, 2014**

**CHAIRPERSONS:** Natalia Vorobets and Grzegorz Zadora

**4.00 – 6.00 pm**

**4.00 – 6.00 pm COFFEE BREAK**

**6.00 pm DINNER**

**SESSION V FRIDAY, JUNE 13<sup>th</sup>, 2014**

**CHAIRPERSONS:** Irena Vovk and Christian Zidorn

**10.00 – 10.30 am**

**17.** Determination of phenolic acids composition in *Lemna minor* L. by LC-ESI-MS/MS

N. Vorobets

**10.30 – 11.00 am**

**18.** Investigation of cholic acid derivatives as transdermal permeation enhancers

J. Jampilek

**11.00 – 11.30 am**

**19.** Model studies on the antioxidant activity of common terpenoid constituents of essential oils by means of the 2,2-diphenyl-1-picrylhydrazyl method

Ł. Cieśla

**11.30 am            CLOSING REMARKS**

**12.00 am    LUNCH**

## POSTER SESSION I

1.

Co-clustering of chromatographic data

K. Drab, M. Daszykowski

2.

Identification of geographical origin of Indian opium on the basis of amino acid profiles

J. Orzel, M. Daszykowski

3.

Detection of counterfeit medicines based on chromatographic impurity profiles

B. Krakowska, I. Stanimirova, D. Custers, E. Deconinck, M. Daszykowski

4.

Probing a chemical space for fragmental topology-activity landscapes (FRAGTAL): Application for diketo acid and catechol HIV integrase inhibitor offspring fragments

A. Bak, T. Magdziarz, V. Kozik, K. Jarzembek, M. Rojkiewicz, A. Kurczyk, K. Serafin, J. Polanski

5.

Chemometric analysis of TLC spots and adsorbents by NIR and ATR spectrophotometry

J. Polek, Ł. Komsta



6.

Quantitative structure-metabolism relationship modeling of new aryl-piperazine derivatives metabolism rates

Sz. Ulenberg, M. Belka, M. Król, F. Herold, T. Bączek

7.

The influence of chaotropic effect on retention of fluoroquinolones in RP-HPLC, RP-OPLC and RP-TLC system

M. Kamińska, M. Studziński, P. Cieśla, A. Czajkowska-Żelazko, M. Jasikowski, K. Pilorz, I. Choma

8.

Solubility parameter used to predict the effectiveness of monolithic in-needle extraction (MINE) device for the direct analysis of liquid samples

M. Pietrzyńska, K. Adamska, M. Szubert, A. Voelkel

9.

Chromatographic analysis of defense sprays for forensic purposes

R. Borusiewicz, G. Zadora

10.

Chromatographic methods of identification and purification of styrylquinoline derivatives

M. Majchrzak, W. Cieślik, M. Sajewicz, R. Musioł

11.

Investigation of glycerol oxidation mechanism over nanogold catalyst using NMR and MALDI techniques

M. Kapkowski, J. Gabor, J. Polański

12.

Synthesis of thioterephthalamides obtained from methyl esters of chosen aminoacids and thioterephthaloyl chloride

A. Jędrzejowska, P. Dybał, V. Kozik, M. Matussek, K. Jarzembek, A. Bąk, P. Kuś

13.

[4 +2] Cycloaddition reactions - new hexasubstituted benzene derivative.

A. Szłapa, S. Kula, M. Matussek, M. Filapek, S. Krompiec

14.

Synthesis of fluorine and carbazole derivatives as fluorescent materials for organic electronics

M. Matussek, A. Szłapa, A. Słodek, I. Grudzka, A. Jędrzejowska, S. Krompiec

15.

New tetrasubstituted benzene derivative - [2+2+2]cycloaddition reactions

S. Kula, A. Szłapa, A. Bugaj, A. Tkocz, M. Matussek, S. Krompiec

16.

Derivatives of Tetra(4-bromo)phenylporphyrin and 5-Aminolevulinic Acid as Potential Drugs in Photodynamic Therapy

K. Mońka, V. Kozik, K. Jarzembek, M. Rojkiewicz, A. Bąk, M. Szczotka, M. Angeles Castro, E. Valles Martin, A. Nobis, P. Kuś

17.

Sorption of heavy ions on graphene oxide modified with (3-mercaptopropyl)trimethoxysilane

A. Baranik, P. Janik, U. Porada, R. Sitko

18.

Graphene oxide modified with sulfonic group in adsorption of metal ions

P. Janik, A. Baranik, U. Porada, R. Sitko

19.

Dispersive micro solid phase extraction for preconcentration of selected metal ions of graphene

K. Czech, D. Stefański, K. Pytlakowska, V. Kozik

20.

“Sila”-Sonogashira coupling in a heterogeneous system - investigations using chromatographic techniques.

M. Korzec, J. Gabor, J. Polański

## POSTER SESSION II

1.

*Dendrolimus pini* – first results of analytical and behavioral studies

D. Staszek, R. Szmigielski, K. J. Rudziński, M. Asztemborska,  
M. Cieślak, J. Raczko

2.

Insight into chemistry of atmospheric aerosol by liquid chromatography with  
tandem mass spectrometric detection

A. Malinowska, K. J. Rudziński, G. Spólnik, D. Staszek, R. Szmigielski

3.

Application of gas chromatography in a lab-scale coal gasification system  
simulating use of High Temperature Reactor excess heat for synthesis gas  
production

A. Smoliński, M. -Balewicz, N. Howaniec

4.

Gas chromatography application in steam co-gasification of coal and  
biowaste

N. Howaniec, A. Smoliński

5.

Optimization of sample preparation workflow by use of an automated  
platform – acceleration of clinical proteomic studies

N. Miękus, F. García Martínez, J. Muñoz, T. Bączek

6.

Thin – layer chromatography - bioassays

W. Jesionek, E. M. Grzelak, B. Majer-Dziedzic, I. M. Choma

7.

GC/MS spectra for 8-hydroxy-2-methylquinoline derivatives

M. Szala, J. E. Nycz, J. G. Małecki, K. Czyż, J. Rzepa

8.

Solid Phase Microextraction as an efficient method for determination of organochlorine pesticides in soil samples

K. Pszczolińska, M. Płonka

9.

5,10,15,20-Tetra(4-hydroxyphenyl)porphyrin as a surrogate for the recovery study of porphyrins in Parma ham

H. De Maere, E. De Mey, M. Baca, M. Sajewicz, H. Paelinck, I. Fraeye, T. Kowalska

10.

Determination of trans-resveratrol in wine and the extracts from grape vine (*Vitis vinifera*) by means of TLC

M. Skorek, N. Biernat, K. Gawlińska, V. Kozik, E. Konopka, T. Kowalska, M. Sajewicz

11.

Determination of hexachlorocyclohexane (HCH) isomers in water samples by gas chromatography

D. Szeremeta, M. Knaś, M. Sajewicz, T. Kowalska

12.

Self-assembled peptide nanofibers (L-proline and L-phenylalanine)

A. Godziek, A. Maciejowska, M. Sajewicz, E. Talik, R. Wrzalik, T. Kowalska

13.

Anti-oxidative properties of different thyme species checked by means of different analytical techniques involving reduction of DPPH radical

M. Orłowska, J. Antczak, W. Czarnecka, K. Gęborska, M. Seroka, M. Bartoszek, J. Polak, K. Pytlakowska, G.Szymczak, M. Waksmundzka-Hajnos, T. Kowalska, M. Sajewicz

14.

Chromatographic investigation of spontaneous reactions of sulphur amino acids

A. Maciejowska, A. Godziek, M. Wszolek, J. Klimek, A. Kulosa, M. Sajewicz, T. Kowalska