



Universität Hamburg



Programme

ISEAC34

34th International Symposium on Environmental Analytical Chemistry

June 4-8, 2006

Hamburg, Germany

Programme ISEAC34, Hamburg, June 4 – 8, 2006

The International Symposium on Environmental Analytical Chemistry has regularly been organized since the 1970s. It took place in Germany in Dortmund (1980, 1992) and the last meeting was in Toronto (Canada) (2004). The 34th International Symposium on Environmental Analytical Chemistry in Hamburg (Germany) aims at bringing together scientists in the field of the research and development of analytical methodology for the determination of the elements, their species and organics as well as biomolecules in the environment, colleagues studying challenging questions regarding the impact of geogenic, anthropogenic, urban and industrial factors on the different compartments of the environment, instrument companies as developers and suppliers of the tools for environmental measurements in the broadest sense and colleagues from industry and regulatory bodies as well as organizations involved in environmental issues. Also, the impact of factors relevant to the environment on the global climate will be treated and special attention will be given to questions of the marine environment.

Chairman:

Prof. Dr. José A.C. Broekaert, University of Hamburg

Co-chair:

Prof. Dr. Marie-Claire Hennion, CNRS-Ecole Supérieure de Physique et de Chimie Industrielle, Paris

Correspondence:

International Association for Environmental Analytical Chemistry (IAEAC)

attn.: Mrs. Marianne Frei

Postfach 46

CH-4123 Allschwil 2

(Switzerland)

E-mail: iaeac@dplanet.ch

Prof. Dr. J.A.C. Broekaert

University of Hamburg

Institute for Inorganic and Applied Chemistry

Martin-Luther-King-Platz 6

D-20146 Hamburg

(Germany)

E-mail: jose.broekaert@chemie.uni-hamburg.de

International Scientific Comittee:

J. Albaiges, Barcelona (Spain)
R. Burk, Ottawa (Canada)
W. Francke, Hamburg (Germany)
D. Hercules, Nashville (U.S.A.)
T. Hoffmann, Mainz (Germany)
D. Klockow, Dortmund (Germany)
G. Lammel, Hamburg (Germany)
R. Nießner, Munich (Germany)
A. Prange, Hamburg (Germany)
J. Readman, Plymouth (U.K.)
S. Richardson, Athens (U.S.A.)
J. Tarradellas, Lausanne (Switzerland)
R. Van Grieken, Antwerp (Belgium)
G. Zaray, Budapest (Hungary)

Organizing comittee:

Nicolas Bings, University of Hamburg
José Broekaert, University of Hamburg
Ursula Fittschen, University of Hamburg
Marianne Frei, IAEAC, Allschwil (Switzerland)
Katrin Kröger, University of Hamburg
Waltraud Wallenius, University of Hamburg

Sponsoring:

Agilent Technologies, Waldbronn
Deutsche Forschungsgemeinschaft (DFG), Bonn
PANalytical Systems, Kassel
Restek GmbH, Bad Homburg v.d.H.
Thermo Electron Corporation, Dreieich
Waters GmbH, Eschborn
Westfalen AG, Münster

Programme

Sunday, June 4th, 2006

17.00-19.00 Registration and Get-together

Monday, June 5th, 2006

9.00-9.15 Welcome

9.15-10.00 Invited lecture **Chairman: Dieter Klockow**
Howell G.M. Edwards, Ian J. Scowen, University of Bradford (United Kingdom)
Raman spectroscopy of extremophiles from hot and cold deserts: an astrobiological journey from Mars oasis, Antarctica, to planet Mars

10.00-10.15 Coffee break

10.15-12.15 Oral contributions

10.15-10.35 Susan Richardson, J. Jackson Ellington, F. Gene Crumley, John J. Evans, Benjamin C. Blount, Lalith K. Silva, Frederick L. Cardinali, Michael J. Plewa, Elisabeth D. Wagner, U.S. EPA, National Exposure Research Laboratory, Athens GA (USA)
Occurrence of IODO-acid and IODO-THM disinfection by-products in drinking water

10.35-10.55 Jin-Ming Lin, Yuki Hashi, Min Liu, Fengyun Pan, Guanqun Song, Jianguo Yao, State Key Laboratory of Environmental Chemistry and Ecotoxicology, Chinese Academy of Sciences, Beijing (China)
Automated on-line liquid chromatography-photodiode array-mass spectrometry method with dilution line for the determination of bisphenol A and 4-octylphenol in serum

10.55-11.15 José B. Quintana, Thorsten Reemtsma, Technische Universität Berlin, Berlin (Germany)
The use of ion-pair liquid chromatography for analyzing strongly acidic environmental trace pollutants by electrospray mass spectrometry

11.15-11.35 Heqing Shen, Niels E. Skakkebaek, Jorma Toppari, Karl-Werner Schramm, GSF – National Research Center for Environment and Health, Neuherberg (Germany)
Chiral industrial pollutants in human samples

- 11.35-11.55** Laure Malleret, Céline Gueydon, Gilbert Mille, Pierre Doumenq, UMR 6171 – Equipe de Chimie Analytique de l'Environnement, Université Paul Cézanne, Aix en Provence (France)
Recent developments for the reliable quantification of total polychlorinated n-alkanes by using GC/EI-MS and GC/EI-MS/MS
- 11.55-12.15** Alexandra Hüttheroth, Martin Jekel, Anke Putschew, Technical University Berlin, Berlin (Germany)
Selective detection of unknown organic bromine compounds by negative-ion electrospray ionization mass spectrometry with induces in-source fragmentation
- 12.15-14.00** Lunch
- 14.00-14.45** Invited lecture **Chairman: José A.C. Broekaert**
Helmut Becker-Ross, Stefan V. Florek, Uwe M. Heitmann, Mao D. Huang, Michael Okruss, ISAS – Institute for Analytical Sciences, Berlin (Germany)
Spectrographs with electronically photoplates – new possibilities for analytical and remote spectrometry
- 14.45-15.15** Coffee break
- 15.15-17.15** Oral contributions
- 15.15-15.35** Bohumil Dočekal, Hana Dočekalová, Veronika Řezáčová-Smetková, Institute of Analytical Chemistry, Czech Academy of Sciences, Brno (Czech Republic)
Soil characterization by diffusive gradients in thin film (DGT) technique
- 15.35-15.55** **Werner Brack**, Georg Streck, UFZ–Center for Environmental Research, Leipzig (Germany)
The rapid dialysis procedure: A novel clean-up method for complex environmental samples
- 15.55-16.15** **Isabella Bisutti**, Ines Hilke, Jens Schumacher, Michael Raessler, Max-Planck-Institute for Biogeochemistry, Jena (Germany)
Simultaneous determination of organic and inorganic carbon by a new dual temperature combustion (DTC) method
- 16.15-16.35** Markus Lenz, Chris Roubos, Piet N.L. Lens, Wageningen University, Wageningen (The Netherlands)
Role of sulphate reducing bacteria in the biological treatment of selenium containing wastestreams

- | | |
|-------------|--|
| 16.35-16.55 | <u>Torsten Spitzer</u> , Environmental, Industrial and Food Analysis, Helmstedt (Germany)
Natural occurrence of perylene in the environment |
| 16.55-17.15 | <u>Licia Guzzella</u> , Claudio Roscioli, Andrea Binelli, IRSA-CNR, Brugherio (Milan) (Italy)
PBDE analysis of sediments and Zebra mussel (<i>Dreissena polymorpha</i>) in the Lake Maggiore basin (Italy) by GC-MS/MS and GC-ECD |
| 18.00 | General Assembly of the International Association of Environmental Analytical Chemistry |

Tuesday, June 6, 2006

- | | | |
|-------------|--|-------------------------------------|
| 9.00-9.45 | Invited lecture
<u>Reinhard Nießner</u> , Technische Universität München, München (Germany)
Immunochemical techniques for monitoring of contaminant traces | Chairman: Peter Brimblecombe |
| 9.45-10.15 | Coffee break | |
| 10.15-12.15 | Oral contributions | |
| 10.15-10.35 | <u>Gesine Witt</u>, Philipp Mayer, Gladys A. Liehr, Dörthe Borck , Baltic Sea Research Institute, Rostock-Warnemünde (Germany)
Using solid phase microextraction to evaluate the bioavailability of sediment bound PAHs | |
| 10.35-10.55 | Agnieszka Kuczyńska, <u>Jacek Namieśnik</u>, Agnieszka Sagajdakow, Lidia Wolska , Dept. of Analytical Chemistry, Gdańsk University of Technology, Gdańsk (Poland)
Simultaneous application of chemical analytics and bioassays in environmental studies | |
| 10.55-11.15 | Dolores Perez-Bendito, <u>Soledad Rubio</u> , Dept. of Analytical Chemistry, University of Córdoba, Córdoba (Spain)
Coacervation of supramolecular assemblies for the extraction of organic pollutants | |
| 11.15-11.35 | <u>Valerii D. Tonkopi</u> , Institute of Limnology, Russian Academy of Sciences, St. Petersburg (Russia)
A new purified cholinesterase for separate detection of organophosphates and carbamates | |

- 11.35-11.55 **Shuddhodan P. Mishra, Shailesh K. Prasad, Ram S. Dubey, Manisha Mishra, Diwakar Tiwari, Seung-Mok Lee**, Kwandong University, Kangwondo 215-802 (Republic of Korea)
Biosorptive behaviour of rice hulls for Cs-134 from aqueous solutions: A radiotracer study
- 11.55-12.15 **Hildegard Hoefler, Mihály Óvári, Christina Streli, Szilvia Szikora, Peter Wobrauschek, Gyula Záray**, L. Eötvös University, Budapest (Hungary)
Development of TXRF method for determination of low Z elements in biofilms
- 12.15-14.00 **Lunch**
- 14.00-14.45 **Invited lecture** **Chairman: Susan Richardson**
Koen Janssens, Bart Vekemans, Wout de Nolf, Roberto Terzano, Pacifico, Ruggiero, Ole-Christian Lind, Brit Salbu, Gerald Falkenberg, Centre for Micro- and Trace Analysis, University of Antwerp, Antwerp (Belgium)
Speciation of heavy metals by combined micro-XRF, micro-XANES and micro-XRD in polluted soil samples from the industrial site of Val Basento, Basilicata, IT and in U/Pu particles from Semipalatinsk, Kazakhstan
- 14.45-15.15 **Coffee break**
- 15.15-16.30 **Poster Session (authors of A series present)**
- 17.00 **“Senatsempfang” at the City Hall of the “Freie und Hansestadt Hamburg”**
-

Wednesday, June 7, 2006

- 9.00-9.45 **Invited lecture** **Chairman: René Van Grieken**
Gary M. Hieftje, Francisco J. Andrade, Gerardo Gamez, Steven J. Ray, Gregory D. Schilling, Michael R. Webb, William C. Wetzel, James H. Barnes IV, M. Bonner Denton, Roger P. Sperline, David W. Koppenaal, Charles J. Barinaga, Dept. of Chemistry, Indiana University, Bloomington, IN (USA)
Progress in atomic spectrometry methodology for measurements in the environment
- 9.45-10.15 **Coffee break**
- 10.15-12.15 **Oral contributions**

- 10.15-10.35** Alexey Kamyshny, Irina Ekeltchik, Tamara Voitsekovski, Jenny Gun, Ovadia Lev, Max-Planck-Institute for Marine Microbiology, Bremen (Germany)
Speciation of inorganic polysulfide in environmental aquatic samples
- 10.35-10.55** Daniel Kremer, Michael Kersten, Institute for Geosciences, Johannes-Gutenberg-University Mainz, Mainz (Germany)
Determination of organometal(loid) compounds in landfill gas and landfill leachate by GC-ICP-MS
- 10.55-11.15** Nalini Parthasarathy, Michael Pelletier, Heliana Kola, Jacques Buffle, Dept. of Analytical Chemistry, University of Geneva, Geneva (Switzerland)
Supported liquid membrane preconcentration device for multielement speciation studies in natural waters: Assessment of Cd(II) speciation in comparison with Cu(II)
- 11.15-11.35** Danuta Barańkiewicz, Dept. of Trace Elements Analysis, Adam Mickiewicz University, Poznań (Poland)
Simultaneous determination of Zn, Pb, Cd, Cu, Ni and Cr in sewage sludge by slurry sampling ICP-OES method
- 11.35-11.55** Xiao-quan Shan, Shuzheng Zhang, Bei Wen, Research Center for Eco-Environmental Sciences, Chinese Academy of Sciences, Beijing (China)
Speciation of metals and metalloids in soils and plant using X-ray absorption spectroscopy
- 11.55-12.15** Victor G. Mihucz, Enikő Tatár, István Virág, Chen Zhang, Jao Jun, Gyula Záray, Hungarian Academy of Sciences, Environmental Chemistry Research Group, Budapest (Hungary)
Leaching of arsenic before consumption in Chinese rice
- 12.15-14.00** **Lunch**
- 14.00-14.45** **Invited lecture** **Chairman: Gary Hieftje**
James W. Readman, Plymouth Marine Laboratory, Plymouth (United Kingdom)
Biogeochemistry of the marine environment: Examples of recent trends in environmental analytical chemistry
- 14.45-15.15** **Coffee break**
- 15.15-16.30** **Poster Session (authors of B series present)**
- 18.30** **Conference evening with boat trip**
-

Thursday, June 8, 2006

- 9.00-9.45** **Invited lecture** **Chairman: Joan Albaigés**
Peter Brimblecombe, School of Environmental Sciences, University of East Anglia,
Norwich (United Kingdom)
Atmospheric chemistry and urban pollution
- 9.45-10.15** **Coffee break**
- 10.15-12.35** **Oral contributions**
- 10.15-10.35** **Julien Dron, Nicolas Marchand, Henri Wortham**, Laboratoire de Chimie et
Environnement, Université de Provence, Marseille (France)
**Functional group analysis for the particulate organic matter: An innovative
approach applying neutral loss scanning mass spectrometry**
- 10.35-10.55** **Pasquale Avino, Maurizio Manigrasso**, DIPIA-ISPEL, Rome (Italy)
**Investigations on primary and secondary pollutant evolution by DOAS
methodology in urban and industrial environments**
- 10.55-11.15** **Kamil Motyka, Zbyněk Večeřa, Pavel Mikuška**, Institute of Analytical Chemistry,
Academy of Sciences of the Czech Republic, Brno (Czech Republic)
**Wet-effluent diffusion denuder–FIA method for nitrous acid determination in
air**
- 11.15-11.35** **Vinod Kumar Jena, Khageshwar Singh Patel, Suresh Chandra Patel**, School of
Studies in Chemistry, Pt. Ravishankar Shukla University, Raipur (India)
Bioabsorption of heavy metals with menthe arvensis
- 11.35-11.55** **Jürgen Wess**, PANalytical, Kassel (Germany)
Measurement of toxic elements in secondary fuels with XRF
- 11.55-12.15** **Monica Culea, Ristoiu Dumitru, Aurel Mocanu**, Dept. of Biomedical Physics,
Babes-Bolyai University of Cluj-Napoca (Romania)
Interlaboratory analytical methods for THMs determination in drinking water
- 12.15-12.35** **René Van Grieken, Katleen Van Meel, Yaroslava Makarovska**, Dept. of
Chemistry, University of Antwerp, Antwerp (Belgium)
**Monitoring of heavy metals in aerosols by the new high-energy polarized-beam
XRF**
- 12.35-14.00** **Lunch**

- 14.00-14.45 **Invited lecture** **Chairman: Andreas Prange**
Wittko Francke, Stephan Franke, Institute of Organic Chemistry, University of
Hamburg, Hamburg (Germany)
Non-target screening: identification of new organic pollutants
- 14.45-15.15 **Coffee break**
- 15.15-17.15 **Oral contributions**
- 15.15-15.35 **Christina Caliebe, Wolfgang Gerwinski, Michael Haarich, Heinrich
Hühnerfuss, Norbert Theobald**, Federal Maritime and Hydrographic Agency,
Hamburg (Germany)
Occurrence of perfluorinated organic acids in the marine environment
- 15.35-15.55 **Vesna Furtula, Basil Hii**, Pacific Environmental Science Centre, Vancouver,
British Columbia (Canada)
Groundwater analysis in Abbotsford Aquifer, British Columbia, Canada
- 15.55 -16.15 **Peter Hancock, Timothy Jenkins, Jean-Marc Joumier, Keith Worrall**, Waters
EHQ, St Quentin en Yvelines (France)
**Multiresidue analysis of priority pollutant in surface waters using exact mass
GC-TOF**
- 16.15-16.35 **Markus Scheurell, Stephan Franke, Heinrich Hühnerfuss**, Institute of Organic
Chemistry, University of Hamburg, Hamburg (Germany)
Effect-directed analysis – a powerful tool for the surveillance of aquatic systems
- 16.35-16.55 **Jun J. Ding, Liushui Yan, Qun Cao, Rong R. Shi, Xiao Y. Yang**, Nanchang
Institute of Aeronautical Technology, Nanchang (China)
**Simultaneous determination of 15 trace organic pollutants in drinking water by
solid-phase extraction-liquid chromatography-ion trap mass/mass spectrometry**
- 16.55-17.15 **Norbert Theobald**, Federal Maritime and Hydrographic Agency, Hamburg
(Germany)
**Monitoring of organic contaminants in the marine environment – special
analytical and other challenges**
- 17.15 **Closing address**
-

Poster contributions

The posters should be brought on the respectively numbered boards before June 6, 2006 and first removed on June 8, 2006. The posters (size: width: 89 cm x height: 125 cm) should be fixed on the boards with the tape provided in the poster area.

Authors for the Series A posters should be present for discussion at their poster on June 6, 2006 between 15.15 and 16.30 and authors for posters of the B Series on June 7, 2006 between 15.15 and 16.30.

A jury will judge on the best poster to be honoured with the Roland W. Frei Poster Award.

Series A

- A 1 Mohammad Abedi, Seyed Morteza Talebi, Iranian Research Organization for Science and Technology (IROST), Tehran, Iran
Supercritical fluid extraction of mercury from airborne particulate matter
- A 2 Esteban Alonso, Manuel Callejón, Irene Aparicio, Juan Carlos Jiménez, Antonio Santos, Dept. of Analytical Chemistry, University of Seville, Seville (Spain)
Heavy metal extractable forms in Guadiamar River sediments (SW Spain)
- A 3 Muhammad Ali Awan, Paul Thomas, School of Chemical Engineering & Analytical Science, University of Manchester, Manchester (United Kingdom)
Optimization of derivatisation method for putrescine and cadaverine (biogenic amines)
- A 4 B.K. Kanungo, Minati Baral, Rati K. Bera, Dept. of Chemistry, Sant Longowal Institute of Engineering & Technology, Longowal Punjab (India)
Development of a novel bipyridyl based fluorescent sensor for the detection of Nickel(II) in environment
- A 5 Mohamed Benkrid, A. Noureddine, Centre de Recherche Nucléaire D'Alger (CRNA) Algiers (Algeria)
Plutonium isotopes concentration in seawater along the Algerian coast
- A 6 Arne Kiera, Nicolas Bings, Institute for Inorganic and Applied Chemistry, University of Hamburg, Hamburg (Germany)
Evaluation of a novel orthogonal plasma-source time-of-flight mass spectrometer hyphenated with laser ablation for the simultaneous determination of metals in gels
- A 7 João Canário, Miguel Caetano, Carlos Vale, INIAP/IPIMAR – Dept. of Aquatic Environment, Lisboa (Portugal)
Simple methodology for monomethylmercury determination in aquatic plant tissues

- A 8 Pavel Diviš, Lukáš Brulík, Hana Dočekalová, Institute of Chemistry and Technology of Environmental Protection, Brno University of Technology, Brno (Czech Republic)
Application of water sampling techniques for assessment of bioavailable metal concentrations in the Svitava River
- A 9 Laura Achene, Emanuele Ferretti, Luca Lucentini, Massimo Ottavini, Enrico Veschetti, Istituto Superiore di Sanità, Rome (Italy)
Liquid chromatography – mass spectrometry determination of acrylamide in drinking water according to the European Union directive 98/83
- A 10 Ursula E.A. Fittschen, José A.C. Broekaert, Gerald Falkenberg, Stephan Förster, Stephan Hauschild, Gerhard Lammel, Florian Meirer, Giancarlo Pepponi, Christina Streli, Peter Wobrauschek, Institute for Inorganic and Applied Chemistry, University of Hamburg, Hamburg (Germany)
Elemental analysis of aerosols with SR-TXRF: direct calibration with pico-droplets generated by ink-jet printers
- A 11 Stephan Franke, Christiane Meyer, Institute for Organic Chemistry, University of Hamburg, Hamburg (Germany)
GC/MS of 2,4-diethyl-3-*n*-propyl-5-pentanolides
- A 12 Stephan Franke, Jörg Grunenberg, Jan Schwarzbauer, Institute for Organic Chemistry, University of Hamburg, Hamburg (Germany)
GC/FT-IR analysis of Di-*iso*-propylnaphthalenes
- A 13 Carlos Guitart, Trish Frickers, James W. Readman, Plymouth Marine Laboratory,
Pharmaceuticals, endocrine disruptors and faecal steroids in transitional waters
- A 14 Simone Griesel, Antje Kakuschke, Andreas Prange, Institute for Coastal Research, GKSS Research Centre, Geesthacht (Germany)
Metal content in blood of free ranging harbour seals (PHOCA VITULINA) and their effect on immunological functions
- A 15 Thorsten Hoffmann, Senchao Lai, Julia Muenz, Nicola Springer, Institute for Inorganic and Analytical Chemistry, Johannes Gutenberg-University, Mainz (Germany)
Speciation of iodine compounds in the coastal/marine atmosphere: contributions to understand new particle formation from natural precursors
- A 16 Amarawan Intasiri, Anne Boos, Tuanjai Yubolpas, Dept. of Chemistry, Faculty of Science, Chulalongkorn University, Bangkok (Thailand)
Application of 1-phenyl-4-methyl-4-stearoyl-5-pyrazolone doped mesoporous silica as a sorbent for metal determination

- A 17 Abdulrahman Kassem, Dept. of Geology, Syrian Atomic Energy Commission, Damascus (Syria)
Determination of trace elements in soil and plants in the Damascus basin of Syria by using instrumental neutron activation analysis
- A 18 Vojtech Adam, Jiri Baloun, Miroslava Beklova, Ladislav Havel, Jaromir Hubalek, René Kizek, Christoph Singer, Karel Stejskal, Bernd Sures, Josef Zehnalek, Ondrej Zitka, Dept. of Chemistry and Biochemistry, Mendel University of Agriculture and Forestry, Brno (Czech Republic)
Effect of Cisplatin on peas (*Pisum Sativum* L.)
- A 19 Vojtech Adam, Ladislav Havel, Ales Horna, René Kizek, Bohumila Kulichova, Andrea Kleckerová, Jiri Petrek, Jitka Petrlova, Karel Stejskal, Josef Zehnalek, Ondrej Zitka, Dept. of Chemistry and Biochemistry, Mendel University of Agriculture and Forestry, Brno (Czech Republic)
Electrochemical methods as suitable tool for determination of biologically important thiols
- A 20 Pavel Krejci, Bohumil Dočekal, Institute of Analytical Chemistry, Brno University of Technology, Brno (Czech Republic)
Electrothermal collection of hydride forming elements on a molybdenum-foil strip for detection by atomic spectrometry methods
- A 21 Anuj Kumar, Ivan Viden, Institute of Chemical Technology, Prague (Czech Republic)
Global assessment of volatile organic compounds in ambient air
- A 22 Jong-Ok Lee, Kum-Soon OH, Kyoung-Mo Kang, Seung-Soo Park, You-Sub Sho, Gun-Zo Woo, Department of Food Safety Evaluation, Seoul (Korea)
Survey of mercury and methyl mercury in fish
- A 23 Gerhard Lammel, Darrel G. Baumgardner, José A.C. Broekaert, Graciela L.B. De Raga, Ursula E.A. Fittschen, Birgit Peschel, Max-Planck Institute for Meteorology, Hamburg (Germany)
Particle-size resolved determination of the elemental composition of atmospheric aerosols in a subtropical coastal fluorescence spectrometry
- A 24 M^a de la Concepción F. Ling, Juan E. González, Sebastián O. Pérez, Las Palmas de Gran Canaria University, Las Palmas de Gran Canaria (Spain)
Pesticide residues in wells and bores

A 25 Audrey Lottmann, Emilie Cade, Catherine Grand, Majdi Lahd, Geagea, Maurice Millet, Philippe Mirabel, Anne-Laure Rizet, Claire Veilleraud, Laboratoire de Physico-Chimie de l'Atmosphère (CNRS), Strasbourg (France)

Separation of molecular tracers sorbed on atmospheric particulate matter by flash chromatography

A 26 Laure Malleret, Stéphanie, Labarillier, Gilbert Mille, Pierre Doumenq, Equipe de Chimie Analytique de l'Environnement, Université Paul Cézanne, Aix-en-Provence (France)

Polycyclic aromatic hydrocarbons analysis in complex environmental matrices: comparison of methods involving HPLC/fluorescence detection, GC/MS and GC/MS/MS

A 27 Georgeta Burtica, Florica Manea, Ciprian Radovan, Ilie Vlaicu, Faculty of Industrial Chemistry and Environmental Engineering, Politehnica University of Timisoara, Timisoara (Romania)

Simultaneous voltammetric detection of organics from waste water on a copper oxide-copper electrode

A 28 Fevzi Gumrah, Larisa M. Melita, Maria Popescu, Chemistry and Science Materials Dept., Technical University of Civil Engineering of Bucharest, Bucharest (Romania)

Removal of Cr(VI) from industrial water effluents and surface waters using activated composite membranes

A 29 Vojtech Adam, Miroslava Beklova, René Kizek, Sona Krizkova, Radka Mikelova, Jiri Pikula, Michal Svoboda, Veronika Supalkova, Dept. of Chemistry and Biochemistry, Mendel University of Agriculture and Forestry, Brno (Czech Republic)

Analysis of tissues of vertebrates and earthworms treated by bromadiolone

A 30 Olivier Delhomme, Pierre Herckes, Maurice Millet, Laboratoire de Physico-Chimie de l'Atmosphère (CNRS) Strasbourg (France)

Determination of oxygenated polycyclic aromatic hydrocarbons by liquid chromatography-tandem mass spectrometry in aerosol samples

A 31 Mourad Messaci, Abdelhalim Allalou, Commissariat à l'Energie Atomique, Centre de Recherche Nucléaire d'Alger, Algiers (Algeria)

Implementation of a radiological early warning system

A 32 François L.L. Muller, Environmental Research Institute, Thurso (United Kingdom)

Evaluation of dissolved organic matter contributions to seawater alkalinity by potentiometric titrations in a closed cell

- A 33 Liubov Oliferova, Mikhail Statkus, Grigoriy Tsysin, Analytical Chemistry Division, Chemistry Department, Lomonosow Moscow State University, Moscow (Russia)
Fluoroplastic capillaries for on-line preconcentration and HPLC determination of polycyclic aromatic hydrocarbons
- A 34 Nevenka Mikac, Baghdad Ouddane, Li Zhenxuan, Laboratory of Analytical and Marine Chemistry (CNRS), University of Sciences and Technology of Lille, Villeneuve d'Ascq (France)
Determination of methylmercury in sediments by headspace trap gas chromatography and atomic fluorescence spectrometry after aqueous phase ethylation
- A 35 Innocent J.K. Aboh, Dag Henriksson, Jens Laursen, Eva Selin-Lindgren, Magnus Lundin, Niels Pind, Thomas Wahnström, Dept. of Chemistry, University of Aarhus, Aarhus (Denmark)
Characterization of PM_{2.5} particles originating from a modern waste incineration plant by factor analysis of chemical data, mass and black carbon in ambient aerosol
- A 36 Antje Kakuschke, Elizabeth Valentin-Thon, Simone Griesel, Ursula Siebert, Andreas Prange, Institute for Coastal research, GKSS Research Centre, Geesthacht (Germany)
Cellular immunity of newborn harbour seals (*Phoca Viulina*) and metal-induced immunomodulation
- A 37 Florica Manea, Ciprian Radovan, Laboratory of Electrochemistry, West University of Timisoara, Timisoara (Romania)
Determination of sodium diethyldithiocarbamate from water by anodic voltammetry at boron-doped diamond electrode
- A 38 Fereidoon Moatar Tehrani, Behnaz Ranjbar, Maryam Ranjbar, Minoo Shahsafi, Dept. of Chemical Industries, Iranian Research Organization for Science and Technology, Tehran (Iran)
Selective separation and recovery of Cadmium and Cobalt ions by solvent extraction from Zinc plant residues
- A 39 Cecilia Regnault, Masanori Kanasawa, Ichiro Kano, Stéphane Mabic, Research and Development, Bioscience Division, Millipore, St Quentin-Yvelines (France)
New challenging organic contaminant in high purity water; endocrine disrupters
- A 40 Henning Rosenfeld, H.-Burkhard Erbslöh, Bernd Niemeyer, Andreas Prange, Institute for Coastal Research, GKSS Research Centre, Geesthacht (Germany)
Glycosylated compounds in seal serum

- A 41 Li Ling Chaw, Mazmah Morshidi, Lee Hoon Lim, Ibrahim A. Rahman, José H. Santos, Dept. of Chemistry, University of Brunei Darussalam, Brunei Darussalam
Electrochemical sensor for heavy metals based on carbon paste electrode modified with ground coffee waste
- A 42 Robert Byrne, Dermot Diamond, Kim K.T. Lau, Christina M. McGraw, Aleksandar Radu, Conor Slater, Adaptive Sensor Group, National Centre for Sensor Research, Dublin City University, Dublin (Ireland)
Ion selective electrodes for soil analysis
- A 43 Habibollahi Saeed, Talebi S. Morteza, Dept. of Chemistry, Isfahan University, Isfahan (Iran)
Determination of arsenic in urban air by hydride-generation atomic absorption spectrometry
- A 44 Licia P. Santos, Tania M. Tavares, Vania Campos, Chemistry Institute, Federal University of Bahia (UFBA), Salvador, Bahia (Brazil)
Development of a passive sampler for hydrogen sulfide and field validation in a tropical site
- A 45 Kishore K. Tiwari, Girdhar L. Mundhara, Vinay K. Gupta, School of Studies in Chemistry, Pt. Ravishankar Shukla University, Raipur (India)
A new reagent system for spectrophotometric determination of cerium in environmental and geological samples
- A 46 Milada Vávrová, Radim Lána, Institute of Chemistry and Technology of Environmental Protection, Brno University of Technology, Brno (Czech Republic)
Selected congeners of polychlorinated biphenyls in abiotic and biotic samples from the environment
- A 47 Stefan Weigel, Eurofins Analytik GmbH, Hamburg (Germany)
Evaluation of an optical biosensor for the drug residue screening of environmental water samples
- A 49 Hassan A. Zamani, Dept. of Chemistry, Islamic Azad University, Quchan (Iran)
Cd(II) PVC-based membrane sensor based on N'[1-(2-furyl)methylidene]-2-furohydrazide
- A 50 Hassan A. Zamani, Dept. of Chemistry, Islamic Azad University, Quchan (Iran)
Novel PVC-based Cobalt(II)-selective membrane electrode based on N'-[1-(2-thienyl)ethylidene]-2-furohydrazide

- A 51 Hassan A. Zamani, Dept. of Chemistry, Islamic Azad University, Quchan (Iran)
Zinc(II) PVC-based membrane sensor based on 5,6-benzo-4,7,13,16,21,24-hexaoxa-1,10-diazabicyclo[8,8,8]hexacos-5-ene
- A 52 Balázs Berlinger, Miklós Náray, Gyula Záray, Hungarian Institute of Occupational Health, Fodor József National Center for Public Health, Budapest (Hungary)
Distribution of metals between the aerosol size fractions in welding fumes
- A 53 Gábor Muránszky, Mihály Óvári, István Virág, Gyula Záray, Dept. of Analytical Chemistry, Eötvös Loránd University, Budapest (Hungary)
Chemical characterization of PM10 fractions of urban aerosol
- A 54 Barbara Cittadini, Giovanni Citti, Emanuele Ferretti, Daniela Maresca, Massimo Ottavini, Enrico Veschetti, Istituto Superiore di Sanità, Dept. of Environment and Primary Prevention, Rome (Italy)
Determination of chlorine dioxide generator performances with suppressed ion chromatography applied to on-line reduced and purged effluents
- A 55 Joanna Wilga, Agata Kot-Wasik, Jacek Namieśnik, Gdańsk University of Technology, Gdańsk (Poland)
Possibilities of using of Solid Phase Extraction (SOE) to determination of fluoxetine in water environment
- A 56 Bernhard Henkelmann, Karl-Werner Schramm, GSF-National Research Center for Environment and Health, Neuherberg (Germany)
Monitoring of POP and related compounds by PDMS-coated stir bars in air
- A 57 Michael Raessler, Kristin Lober, Annika Lenz, Max-Planck-Institute for Biogeochemistry, Jena (Germany)
Fast and reliable determination of trace concentrations of Ti and Zr in soil samples
- A 58 Ana M. Ballesteros, Dolores Pérez-Bendito, Soledad Rubio, Dept. of Analytical Chemistry, University of Córdoba, Edificio Anexo Marie Curie, Córdoba (Spain)
Use of decanoic acid reversed micelles-based coacervation for the extraction of PAHs from surface water and wastewater samples
- A 59 Diwakar Tiwari, Hyoung U. Kim, SeungM. Lee, Jae K. Yang, Kwandong University, Yangyang (Korea)
Ferrate(VI) for the oxidation of cyanide in aqueous solutions: a green chemical
- A 60 Kamil Motyka, Pavel Mikuška, Zbyněk Večeřa, Antonije Onjia, Institute of Analytical Chemistry, Academy of Sciences of the Czech Republic, Brno (Czech Republic)
Flow-injection chemiluminescence determination of formaldehyde in water

- A 61 Barbara Siegfried, Monica Culea, Ristoiu Dumitru, Urs von Gunten, Dept. of Biomedical Physics, University of Babes-Bolyai, Cluj-Napoca (Romania)
Trihalomethane formation kinetics by chlorination of raw water

Series B:

- B 1 Alka, Oh H Kwon, Kyu M. Choi, Dept. of Electronics & Information Communication Engineering, Kwandong University, Kangwondo (Korea)
Preparation and characterization of small sized particle PZT powders: a sol-gel modified approach
- B2 Esteban Alonso, Irene Aparicio, Manuel Callejón, Salud Garcia-Rodriguez, David Olano, Juan Luis Santos, Dept. of Analytical Chemistry, University of Seville, Seville (Spain)
Monitoring and occurrence of selected pharmaceuticals in southern Spain municipal wastewater treatment plants
- B 3 Nikolai V. Alov, Dept. of Analytical Chemistry, M.V. Lomonosov Moscow State University, Moscow (Russia)
XRF determination of heavy metals and their distribution in roadside soil
- B 4 Israel Jimenez-Zapata, Mathieu Bauer, Nicolas H. Bings José A.C. Broekaert, Institute for Inorganic and Applied Chemistry, University of Hamburg, Hamburg (Germany)
Progress in the use of cold vapour techniques for the plasma atomic emission spectrometric determination of mercury
- B 5 Francesca Bettazzi, Serena Laschi, Marco Mascini, Università degli Studi di Firenze, Firenze (Italy)
One-shot screen-printed thylakoid membrane-based biosensor for the detection of photosynthetic inhibitors in discrete samples
- B 6 Nicolas Bukowiecki, Gerald Falkenberg, Peter Lienemann, Christoph N. Zwicky, Matthias Hill, Robert Gehrig, Ferenc Hegedüs, Markus Furger, Ernest Weingartner, Urs Baltensperger, Daniel Grolimund, Markus Willmann, André Scheidegger, Steven S. Cliff, Empa, Materials Science and Technology, Dübendorf (Switzerland)
RDI-SR-XRF: Detection of trace elements in ambient air at low concentration levels with high temporal resolution
- B 7 Peter Beaven, José A.C. Broekaert, Elisa Daneva, Andreas Prange, Daniel Proefrock, GKSS Research Centre, Institute for Coastal Research/Marine Bioanalytical chemistry, Geesthacht (Germany)
Capillary Liquid Chromatography – Mass Spectrometry: a powerful combination for arsenic speciation in marine algae

- B 8 Ch. D. Rasheed, Nabil A. Fakhre, Dept. of Chemistry, College of Education, University of Salhalddin, Erbil (Iraq)
Extraction-spectrophotometric determination of nitrate in polluted water and soil samples using diazo-coupling reaction
- B 9 Laura Achene, Emanuele Ferretti, Alessandro Frugis, Luca Lucentini, Massimo Ottavini, Istituto Superiore di Sanità, Rome (Italy)
Simultaneous determination of several cyanotoxins in water destined to human consumption by using liquid chromatography – mass spectrometry
- B 11 Stephan Franke, Christiane Meyer, Götz Neurath, Michael Specht, Institute for Organic Chemistry, University of Hamburg, Hamburg (Germany)
Identification of dioxypyramidon in Elbe river water
- B 12 Stephan Franke, Nicolas Heinzl, Michael Specht, Institute for Organic Chemistry, University of Hamburg, Hamburg (Germany)
Thiosterols in Odra river sediment
- B 13 Benedict C. Gbaruko, Paschal N. Gabruko, Hongtao Yu, Matthew Anyanwu N., Dept. of Industrial Chemistry, Abia State University Ututu, (Nigeria)
Nanotechnology, fibres and occupational health hazards
- B 14 Veronika Hellwig, Burkhard Erbslöh, Andreas Prange, GKSS-Research Centre, Geesthacht (Germany)
Isolation of haptoglobin from harbour seals
- B 15 Jan Hrdlička, Pavel Mikuška, Zbyněk Večeřa, Institute of Analytical Chemistry, Academy of Sciences of the Czech Republic, Brno (Czech Republic)
Emission of monoterpenes from pecia abies (L) karst under normal and elevated CO₂ atmosphere
- B 16 B.K. Kanungo, Minati Baral, Suban K. Sahoo, Dept. of Chemistry, Sant Longowal Institute of Engineering & Technology, Longowal Punjab (India)
Design of a highly efficient ripodal ammonophenolate chelator for trivalent gallium and iron
- B 17 Ji Yeon Kim, Woo Seong Kim, Regional Technology Center, Waters Asia Limited, (Singapore)
Multiple pesticides screening and quantitation using GC-Triple-Quadrupole Mass Spectrometer

- B 18 Vojtech Adam, Ladislav Havel, René Kizek, Jiri Petrek, David Potesil, Veronika Supalkova, Josef Zehnalek, Dept. of Chemistry and Biochemistry, Mendel University of Agriculture and Forestry, Brno (Czech Republic)
Utilizing of electrochemical techniques for determination of salicylates in different biological samples
- B 19 Piotr Konieczka, Barbara Kusznierevich, Jacek Namieśnik, Dept. of Analytical Chemistry, Gdansk University of Technology, Gdańsk (Poland)
Application of ASE-GC-IDMS techniques for the determination of organic compounds in environmental samples
- B 20 Agnieszka Kuczyńska, Jacek Namieśnik, Mikołaj Protasowicki, Lidia Wolska, Dept. of Analytical Chemistry, Gdansk University of Technology, Gdańsk (Poland)
Mobility of pollutants and their toxicity on the basis of studies of sediments from Lake Turawskie
- B 22 François Gauthier-Lafaye, Majdi Lahd Geagea, Maurice Millet, Peter Stille, Ecole et Observatoire des Sciences de la Terre, Université Louis-Pasteur, Strasbourg (France)
Pb, Sr, Nd and C isotopic evidence for sources of atmospheric heavy metals and their deposition in the urban environment of Strasbourg-Kehl
- B 23 Marina B. Jensen, Peter E. Holm, Jens Laursen, Hans C.B. Hansen, Dept. of Natural Sciences, The Royal Veterinary and Agricultural University, Frederiksberg (Denmark)
Blackish surface deposits on highway roadsides
- B 24 Alexander S. Loginov, Irina Yu. Goryacheva, Chemistry Department, Saratov State University, Saratov (Russia)
Acid-induced cloud-point extraction with sodium dodecylsulfate for the preconcentration and quick fluorimetric determination of some polycyclic aromatic hydrocarbons in aqueous media
- B 25 Farhad Malekzadegan, Hassan A. Zamani, Dept. of Food Science, Islamic Azad University, Quchan (Iran)
Determination of Lycopene in watermelon by High Performance Liquid Chromatography Method
- B 26 Laure Malleret, Renaud Viany, Alexandre Lacoste, Gérard Leger, Pierre Doumenq, Equipe de Chimie Analytique de l'Environnement, Université Paul Cézanne, Aix-en-Provence (France)
On site lead-monitoring using a portable electroanalytical device to diagnose corroded pipes in drinking water distribution system

- B 27 Rachida Maoui, Abdelkader Nourredine, Laboratory des Etudes d'Impact Radiologique (LEIR), Centre de Recherche Nucléaire d'Alger, Algiers (Algeria)
Determination of ^{90}Sr in a water column along the Algerian coast
- B 29 Olivier Delhomme, Pierre Herckes, Maurice Millet, Philippe Mirabel, Laboratoire de Physico-Chimie de l'Atmosphère (CNRS), Strasbourg (France)
Post-column derivatisation of nitro-polycyclic aromatic hydrocarbons to aminopolycyclic aromatic hydrocarbons for their analysis by HPLC fluorescence application of atmospheric aerosols
- B 30 Mourad Messaci, Yacine Zitouni, Commissariat à l'Energie Atomique, Centre de Recherche Nucléaire d'Alger, Algiers (Algeria)
Meteo – diffusive characterization of the Algiers's nuclear research reactor
- B 31 Larisse Montero, Covadonga Astorga, Giovanni De-Santi, Arianna Farfaletti, Bo R. Larsen, Giorgio Martini, Alois Krasenbrink, European Commission Joint Research Center, IES, Transport and Air Quality, Ispra (Italy)
Determination of ozone precursor hydrocarbons and other pollutants emitted by heavy-duty engines using biodiesel
- B 32 Abdelkader Nourredine, M. Benkrid, R. Maoui, M. Menacer, R. Boudjenoun, Commissariat à l'Energie Atomique, Centre de Recherche Nucléaire d'Alger, Algiers (Algeria)
Distribution of natural radioactivity, ^{137}Cd , ^{90}Sr and plutonium isotopes in a water column and sediment core along the Algerian coast
- B 33 Edoardo Orvini, Margherita Speziali, Costanza Herborg, Dept. of General Chemistry, University of Pavia, Pavia (Italy)
Trace element characterization by INAA of a rice flour proposed as a reference material and a new black rice cultivar
- B 34 Tamas L. Pap, Institute of Analytical Chemistry, University of Veszprem, Veszprem (Hungary)
Validation of capillary gas-chromatographic method for determination of toxic compounds in air
- B 35 Aleksandra K. Dubiella-Jackowska, Dariusz Lech, Jacek Namieśnik, Piotr Pasławski, Żaneta Polkowska, Dept. of Analytical Chemistry, Gdansk University of Technology, Gdańsk (Poland)
Determination of metals of the platinum group elements in runoff water samples by ICP-MS

- B 36 Daniel Pröfrock, Andreas Prange, Institute for Coastal research, GKSS Research Centre, Geesthacht (Germany)
Application of capillary-LC hyphenated to element and molecule specific detection techniques for protein analysis
- B 37 Vlad Chiriac, Daniela Dascalu, Florica Manea, Ciprian Radovan, Ilie Vlaicu, Laboratory of Electrochemistry, West University of Timisoara, Timisoara (Romania)
Measurement of electrochemical oxidability of wastewaters based on voltammetric determination by using a boron doped diamond electrode
- B 38 Anvar Z. Razyapov, Sergei S. Voronich, Mokhanad M. Salekh Agkha, Dmitrii A. Shapovalov, Moscow Institute of Steel and Alloys, and Environmental Protective Center, Moscow (Russia)
Environmental problems of Moscow city and possibilities of the monitoring systems of atmospheric pollution and industrial emissions
- B 39 María Rey, Covadonga Astorga, José Cancelinha, Giovanni De-Santi, Kevin Douglas, José Jimenez, Bo R. Larsen, Joanna Niedzzialek, Peter Wåhlin, European Commission, Joint Research Centre, IES Transport and Air Quality, Ispra (Italy)
High concentrations of particle-born polyaromatic compounds in Krakow Poland) from home heating by coal burning
- B 40 Agata Kot-Wasik, Agnieszka Kuczyńska, Magdalena Kursa-Mikołajczak, Jacek Namieśnik, Agnieszka Sagajdakow, Lidia Wolska, Dept. of Analytical Chemistry, Gdańsk University of Technology, Gdańsk (Poland)
Ecotoxicity of waste material from the metallurgical industry in Poland
- B 42 Peter Kettisch, Miroslava Márová, Jiří Páč, Emanuel Šucman, Milada Vávrová, Faculty of Veterinary Hygiene and Ecology, University of Veterinary and Pharmaceutical Sciences Brno, Brno (Czech Republic)
Microwave assisted sample preparation for trace elements determination by stripping voltammetry
- B 43 Talebi S. Morteza, Dept. of Chemistry, Isfahan University, Isfahan (Iran)
Continuous determination of PAHs in urban atmosphere by capillary gas chromatography
- B 44 Maria de L.M.F. Botelho, Nicolas Brito, Sergio T. de Oliva, Tania M. Tavares, Chemistry Institute, Federal University of Bahia (UFBA), Salvador, Bahia (Brazil)
Intercalibration of atmospheric methanol and ethanol by two different analytical methods in a tropical environment

- B 45 David C. Cullen, Dimitrios F. Ghanotakis, Maria T. Giardi, Pietro Morlacchi, Eleftherios Touloupakis, Dimitrios G. Varsamis, Cranfield Biotechnology Centre, Cranfield University, Silsoe, Bedfordshire (United Kingdom)
Microfluidic sensor for the chemiluminescence optical detection of pollutants using magnetic beads
- B 46 Karel Bednarik, Emanuel Sučman, Milada Vávrová, Lucy Vojtova, Institute of Chemistry and Technology of Environmental Protection, Brno University of Technology, Brno (Czech Republic)
Ecotoxicological evaluation of polyurethane foams
- B 48 Ewa Kremer, Agnieszka Zaborowska, Bogdan Zygmunt, Gdansk University of Technology, Dept. of Analytical Chemistry, Gdańsk (Poland)
Determination of acidic herbicides in soil from the vicinity of pesticide depot
- B 49 Hassan A. Zamani, Mohammad J. Pooyamanesh, Ghadir Rajabzadeh, Dept. of Chemistry, Islamic Azad University, Quchan (Iran)
Novel Fe(III) ion-selective membrane electrode based on 4-amino-6-methyl-3-methylmercapto-1,2,4-triazin-5-one
- B 50 Hassan A. Zamani, Dept. of Chemistry, Islamic Azad University, Quchan (Iran)
Highly selective and sensitive Chromium(III) membrane sensors based on 4-amino-3-hydrazino-6-methyl-1,2,4-triazin-5-one as a new neutral ionophore
- B 51 S.A. Dmitriev, A.I. Ermakov, I.P. Korenkov, Tatiana N. Laschenova, Yu.N. Zozul, State Unitary Enterprise, Scientific Industrial Association Radon, Moscow (Russia)
Methods for comprehensive evaluation of the environmental effect of radiologically hazardous objects
- B 52 Victor G. Mihucz, Gabór Muránszky, Mihály Óvári, Ilse Steffan, Enikő Tatár, István Virág, Gyula Záray, Michaela Zeiner, Institute of Chemistry, Eötvös University, Budapest (Hungary)
Determination of platinum in human urine by sector field inductively coupled plasma mass spectrometry (SF-ICP-MS)
- B 53 Torsten Lindemann, Joachim Hinrichs, Jörg Reipke, Bill Spence, Thermo Electron (Bremen) GmbH, Bremen (Germany)
Application of ICP-MS as a tool for environmental monitoring
- B 54 Ewa M. Cukrowska, Luke K. Chimuka, Hermogène Nsengimana, Environmental Analytical Chemistry Research Group, School of Chemistry, University of the Witwatersrand, Johannesburg (South Africa)
Supported liquid membrane extraction probe (SLM EP) for study of heavy metals speciation in environmental matrices

- B 55 Thorsten Reemtsma, Anja These, Department of Water Quality Control, Technical University of Berlin, Berlin (Germany)
Analysis of natural organic matter molecules by means of electrospray ionization-high resolution mass spectrometry
- B 56 Bohumil Dočekal, Pavel Mikuška, Tomáš Šíkola, Zbyněk Večeřa, Jakub Zlámal, Institute of Analytical Chemistry, Czech Academy of Sciences, Brno (Czech Republic)
Electric focusing preconcentration device for element composition monitoring of air aerosols by atomic emission spectroscopy
- B 57 Dolores Pérez-Bendito, Noelia Luque, Soledad Rubio, Dept. of Analytical Chemistry, University of Córdoba, Edificio Anexo Marie Curie, Córdoba (Spain)
Stability of amphiphilic and hydrophobic pollutants in anionic micelle-based coacervates
- B 58 Hee-Jeong Choi, Mattias Kraume, Christian Adam, Seung-Mok Lee, Kwandong University, Yangyang, Kangwondo (Republic of Korea)
Increased biological phosphate elimination by membrane bioreactor - mechanism clearing-up via phosphorus fraction-
- B 59 M. Kózka, A. Piechalak, Danuta Barańkiewicz, B. Tomaszewska, Dept. of Trace Elements analysis by spectroscopy Method, Adam Mickiewicz University, Poznań (Poland)
Hyphenated techniques in phytoremediation research
- B 60 Saroj Sharma, Khageshwar Singh Patel, Adizya Shulka, P. Hoffmann, School of Studies in Chemistry, Pt. Ravishankar Shukla University, Raipur (India)
Speciation of chromium in waste water
- B 61 Thorsten Hoffmann, Christopher Reinnig, Mathias Schott, Jörg Warnke, Institute for Inorganic and Analytical Chemistry, Johannes-Gutenberg-University of Mainz, Mainz (Germany)
Online measurement of peroxides from the β -pinene/ozone reaction by atmospheric pressure chemical ionization – mass spectrometry

Book of Abstracts

The abstracts together with the list of participants (by May 1, 2006) and their addresses are made available on a CD-ROM handed to the participants at the registration.

Exhibition

Booths of companies will be available from Monday, June 5, 2006 in the afternoon (16hr00) to Thursday, June 8, 2006 in the afternoon (17hr00) in the Foyer of the lecture halls, where also the registration desk and the coffee bar are located.

Agilent Technologies, Waldbronn

Hewlett-Packard-Strasse 8

76337 WALDBRONN

Tel: +49(0)800 603 1000

Fax: +49(0)69 953 07 919

<http://www.agilent.com>

PANalytical, GmbH, Kassel

Nürnberger Strasse 113

34123 KASSEL

Tel: +49(0)561 574 2410

Fax: Tel: +49(0)561 574 2500

<http://www.panalytical.com>

Restek GmbH, Bad Homburg v.d.H.

Schaberweg 23

61348 Bad Homburg v.d.H.

Tel: +49(0)617 2279 970

Fax: +49(0)617 2279 9777

<http://www.restekgmbh.de/>

Thermo Electron Corporation, Dreieich

Im Steingrund 4-6

63303 DREIEICH

Tel: +49(0)610 3408 0

Fax: +49(0)610 3408 1222

<http://www.thermo.com>

Waters GmbH, Eschborn

Helfmann-Park 10

65760 ESCHBORN

Tel: +49(0)6196 400 600

Fax: +49(0)6196 400 6010

<http://www.waters.com/>

Westfalen AG, Münster

Geschäftsbereich Technische Gase, Spezialgase

Industrieweg 43

48155 MÜNSTER

Tel: +49(0)4331 9478 0

Fax: +49(0)4331 9478 25

<http://www.westfalen-ag.de>

Conference office

A conference office is provided in the Foyer of the lecture halls in the chemistry building, Martin-Luther-King-Platz 6, 20146 Hamburg

Opening Hours : Sunday, June 4th, 2006, 17-19 hr

Monday-Thursday, June 5th-8th, 2006, 8-17hr30

Telephone (during the opening hours and conference only): +49(0)40 42838 4444

Fax: +49(0)40 42838 2893

Social Programme

- Get-together

On Sunday, June 4, 17–19hr, 2006 the participants are invited to take part in a get-together with drinks and snacks offered in the Foyer of the lecture halls of the Chemistry Building, Martin-Luther-King-Platz 6, running in parallel with the registration in the Foyer.

- Walk in the city (complementary)

Participants and accompanying persons interested in a walk in the centre of the city of Hamburg on Monday, June 5, 2006, 14hr00 are kindly requested to register at the registration and to meet on Monday, June 5, 2006, 14hr00 at the registration desk.

- Reception in the City Hall

All pre-registered participants will receive at the registration a personal invitation for the Reception by the Senate of the “Freie und Hansestadt Hamburg” in the City Hall. This Reception will take place on Tuesday, June 6, 2006 at 17hr00. Participants are kindly requested to be present by 16hr45 in the main lobby (Rathausdiele – stairs at the right side) of the City Hall, Rathausmarkt (near U-Bahn Station Rathaus) and have their invitation as well as their passport present.

- Conference evening with boat trip

Participants registered for the Conference evening on Wednesday, June 7, 2006 will receive a ticket at the conference registration office. They are requested to gather at the “Anleger – Jungfernstieg” by 18hr30 at the “Binnenalster” (near U-Bahn Station Jungfernstieg). On the boat a buffet including drinks will be offered and a trip on the Alster will be made, ending at the “Anleger – Jungfernstieg” at 22hr.