



2007 European Winter Conference on Plasma Spectrochemistry

18 - 23 February 2007

*Palazzo dei Congressi
Taormina, Italy*

20
07



European Winter
Plasma Conference

Conference Programme

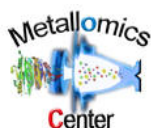
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Saturday 17 Feb	Sunday 18 Feb	Monday 19 Feb	Tuesday 20 Feb	Wednesday 21 Feb	Thursday 22 Feb	Friday 23 Feb
9:00 – 13:00 Short Course 2	9:00 – 13:00 Short Courses 4 & 5 & 6	7:30 – 17:00 Registration	8:00 – 17:00 Registration	8:00 – 13:00 Registration	8:00 – 17:00 Registration	
		8:30 – 9:00 KN01	8:30 – 9:00 KN05	8:00 – 8:30 KN08	8:30 – 9:00 KN11	8:30 – 9:00 KN15
		9:00 – 10:20 Orals Mo01- Mo04	9:00 – 10:20 Orals Tu01 – Tu04	8:30- 9:50 Orals Wo01 – W04	9:00 – 10:20 Orals Th01 – Th04	9:00 – 10:40 Orals Fr01 – Fr05
		10:20 – 11:20 Posters & Coffee MoPo01 - MoPo80	10:20 -11:20 Posters & Coffee TuPo01 – TuPo80	9:50 – 11:50 Posters & Coffee WedPo01 – WedPo80	10:20 -11:20 Posters & Coffee ThPo01 - ThPo77	10:40 – 11:00 Coffee Break
		11:20 – 11:50 KN02	11:20 - 11:50 KN06	11:50 – 12:20 KN09	11:20 – 11:50 KN12	11:00 – 11:30 KN16
		11:50 – 13:30 Orals Mo05 – Mo09	11:50 – 13:10 Orals Tu05 – Tu08	11:50 – 12:20 KN10	11:50 – 13:30 Orals Th05 – Th09	11:30 – 12:30 Orals Fr06 – Fr08
14:30 – 18:30 Short Courses 1 & 3	13:00 – 16:00 Registration	13:30 – 14:30 Lunch Break	13:10 – 14:30 Lunch Break	12:20 – 14:30 Orals W05 – W09	13:10 – 15:00 Lunch Break	12:30 – 13:00 Closing Ceremony
	16:00:16:30 Opening Ceremony	14:30 – 15:00 KN03	14:30 – 15:00 KN07	Enjoy a Free Afternoon	15:00 – 15:30 KN13	
	16:30 – 17:30 Plenary Lecture	15:00 – 16:00 Orals Mo10 – Mo12	15:00 – 16:00 Orals Tu09 – Tu11		15:30 – 16:30 Orals Th10 – Th12	
	17:30 – 18:30 European Award on Plasma Spectrochemistry	16:00 – 17:00 Posters & Coffee MoPo01 - MoPo80	16:00 – 17:00 Posters & Coffee TuPo01 – TuPo80		16:30 – 17:30 Posters & Coffee ThPo01 - ThPo77	
	18:30 – 20:00 Welcome Reception	17:00 -17:30 KN04	17:00 -18:20 Orals Tu12 – Tu15		17:30 – 18:00 KN14	
		17:30 – 18:30 Orals Mo13– Mo15	Young Scientist Evening 20:30 Un Ballo in Maschera		18:00 – 19:20 Orals Th12 – Th16	
		Enjoy the Carneval in Taormina			20:30 Gala Dinner & Poster Award Ceremony	

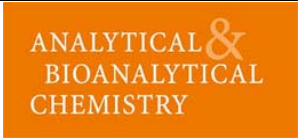
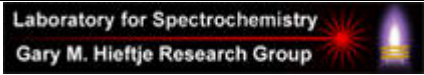
The Scientific and Organising Committee



Maria Betti, *Chair*
Sergio Caroli and Joe Caruso, *co-chairs*
Laura Aldave de las Heras, Carlo Barbante, Maurizio Bettinelli and Francesco Cubadda, *Committee Members*



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THE OPENING DAY ***SUNDAY 18 FEB 2007***

Registration – Information
13:00 -16:00

OPENING CEREMONY
16:00 – 16:30

PLENARY LECTURE
Ramon Barnes
*University Research Insitute for Analyitcal Chemistry,
Amherst, USA,*
***"History and Science of Plasma
Spectrochemistry"***
16:30 – 17:30

EUROPEAN AWARD ON PLASMA SPECTROCHEMISTRY



17:30 – 18:30



WELCOME RECEPTION
18:30- 20:00





MONDAY 19 FEBRUARY 2007

Plasma Spectrochemical Studies and Instrumentation.

Chairperson: Jean-Michel Mermet

7:30 - 17:00 registration - information

8:30 – 9:00 KN 01

PLASMA SPECTROMETRIC INSTRUMENTATION: NOT FOR JUST ATOMS ANYMORE

Gary Hieftje^{1*}, Francisco Andrade¹, Gerardo Gamez¹, Steven Ray¹, Gregory Schilling¹, James Barnes, IV⁴, Bonner Denton², Roger Sperline², David Koppenaal³, Charles Barinaga³

¹Department of Chemistry, Indiana University, Bloomington, IN, USA. *hieftje@indiana.edu

²Department of Chemistry, University of Arizona, Tucson, AZ, USA.

³Pacific Northwest National Laboratory, Richland, WA, USA.

⁴Chemistry Division, Los Alamos National Laboratory, Los Alamos, NM, USA

9:00 – 9:20 Mo01

ION-MOLECULE REACTIONS TO OVERCOME SPECTRAL OVERLAPS IN ICP-MS

J.W. Olesik, D. R. Jones, B. Henderson and P. J. Gray, The Ohio State University, School of Earth Sciences, Trace Element Research Laboratory, 125 S Oval Mall, Columbus, OH 43210
olesik.2@osu.edu

9:20 – 9:40 Mo02

HIGH-FIELD ASYMMETRIC WAVEFORM ION MOBILITY SPECTROMETRY-MASS SPECTROMETRY FOR TRACE ELEMENT SPECIATION

Zoltan Mester

NRC/INMS, Ottawa, Canada

Zoltan.mester@nrc.ca

9:40 – 10:00 Mo03

ANALYTICAL PERFORMANCE OF A NEW RADially VIEWED CID-ICP-AES FOR ANALYSIS OF BRINES AND RELATED SAMPLES – SPECTROSCOPIC AND NONSPECTROSCOPIC INTERFERENCE EFFECTS.

Jacinto Alonso-Azcarate¹, **Isaac (Joe) Brenner**², Javier Jimenez³, Angel Vindel³

1. Facultad de Ciencias del Medio Ambiente, Universidad de Castilla-La Mancha, Antigua Fabrica de Armas, Toledo 45071 Spain, jacinto.alonso@uclm.es

2. Visiting Scientist, Facultad de Ciencias del Medio Ambiente, Universidad de Castilla-La Mancha, Antigua Fabrica de Armas, Toledo 45071 Spain, brenner@cc.huji.ac.il

3. Thermo Fisher Scientific, Alcobendas, Madrid, Spain,

10:00 – 10:20 Mo04

ELEMENT-SPECIFIC INVESTIGATION OF MICRO-CORROSION PROCESSES IN AL ALLOYS BY ICP-MS

N. Homazava^{1,2}, A. Ulrich¹, U. Kraehenbuehl²

¹ Empa, Swiss Federal Laboratories for Materials Testing and Research, Ueberlandstrasse 129, CH-8600 Duebendorf, Switzerland

² University of Bern, Department for Chemistry and Biochemistry, Freiestrasse 3, CH-3012 Bern, Switzerland nadzeja.homazava@empa.ch

10:20 – 11:20 Poster Session and Coffee Break

11:20 -11:50 KN 02

ICP-MS AND THE SECOND PUNIC WAR

R. S. Houk,

Ames Laboratory U. S. Dept. of Energy, Department of Chemistry, Iowa State University, Ames IA 50011 USA

11:50– 12:10 Mo05

HOW TO FAVOUR THE USE OF MULTILINE ANALYSIS IN CCD-BASED ICP-AES ?

Agnès Cosnier[†], Yves Danthez[†], Sébastien Velasquez[†], Emmanuel Fretel[†], Jean Michel Mermet[‡], Olivier Rogerieux[†]

[†]HORIBA Jobin Yvon, 16-18 rue du Canal, Longjumeau, Cedex, France, 91165, [‡]Spectroscopy Forever, Lyon, France Agnes.cosnier@jobinyvon.fr

12:10 – 12:30 Mo06

DEVELOPMENT OF A UNIVERSAL PROCEDURE FOR COMPENSATION OF PLASMA-RELATED MATRIX EFFECTS IN INDUCTIVELY COUPLED PLASMA–ATOMIC EMISSION SPECTROMETRY.

George Chan and Gary Hieftje, Department of Chemistry, Indiana University, Bloomington, IN 47405, USA. gcchan@indiana.edu

12:30 – 12:50 Mo07

CHARACTERIZATION OF THE ICP-MS CAPABILITIES USING METHANE ADDITION

M. Hamester, J. Wills and B. Strasser Thermo Fisher Scientific, Hanna-Kunath-Strasse 11, 28199 Bremen, Germany, meike.hamester@thermofisher.com

12:50 – 13:10 Mo08

ULTRA-TRACE SPECIATION ANALYSIS OF MERCURY IN ANCIENT ANTARCTIC ICE

P. Jitaru^{1,2,3}, P. Gabrielli¹, C. Barbante^{1,4}, C. P. Ferrari⁵, C. F. Boutron⁵, P. Cescon^{1,4}, F. C. Adams²

¹Institute for the Dynamics of Environmental Processes (CNR), Dorsoduro 2137, 30123 Venice, Italy;

²University of Antwerp, Department of Chemistry, Campus Drie Eiken, Universiteitsplein 1, 2610 Wilrijk, Belgium;

³University “Al. I. Cuza”, Faculty of Chemistry, 11 Carol I Blvd., 700506 Iasi, Romania.

⁴Department of Environmental Sciences, Dorsoduro 2137, 30123 Venice, Italy.

⁵Laboratoire de Glaciologie et Géophysique de l’Environnement du CNRS 54, rue Molière, B.P. 96, 38402 St Martin d’Heres cedex, France.

petru.jitaru@idpa.cnr.it

13:10 -13:30 Mo09

PROS AND CONS FOR INERT AND REACTIVE CELL GASES IN COLLISION/REACTION CELL ICP-MS

Jérôme Darrouzès, Ed McCurdy and Glenn Woods
Agilent Technologies , 1 rue Galvani, MASSY Cedex, France, 91745
jerome_darrouzes@agilent.com

13:30–14:30 Lunch break

Solid State Methods – GD sources and applications.
Chairperson: G. Zaray

14:30 – 15:00 KN 03

COMPREHENSIVE SPECIATION USING A GLOW DISCHARGE IONIZATION SOURCE: WHO WOULD HAVE THOUGHT . . . ? R. Kenneth Marcus, Tim M. Brewer, Joaodimir Castro, and M. V. Balarama Krishna, Department of Chemistry, Biosystems Research Complex, Clemson University, Clemson, SC 29634, USA
marcusr@CLEMSON.EDU

15:00 – 15:20 Mo10

EXCITATION BEHAVIOUR OF IRON ATOMIC LINES HAVING VARIOUS EXCITATION ENERGIES EMITTED FROM GLOW DISCHARGE PLASMAS USING ARGON, NEON, AND ARGON-HELIUM GASES
K. Wagatsuma, Tohoku University, Institute for Materials Research, Sendai, Japan, 980-8577
wagatuma@imr.tohoku.ac.jp

15:20 -15:40 Mo11

ELEMENTAL SURFACE IMAGING WITH A PULSED RADIO-FREQUENCY GLOW DISCHARGE.
G. Gamez, S. J. Ray, F. J. Andrade, M. R. Webb, G. M. Hieftje, Indiana University-Bloomington, Department of Chemistry, 800 East Kirkwood Avenue, Bloomington, IN 47405, USA.
ggamez@indiana.edu, hieftje@indiana.edu

15:40 – 16:00 Mo12

BREAKTHROUGHS IN RF GD FOR THE CHARACTERISATION OF THIN FILMS
Patrick Chapon⁽¹⁾, Agnès Tempez⁽¹⁾, Philippe Belenguer⁽²⁾, Philippe Guillot⁽²⁾, Tatsuhito Nakamura⁽³⁾,⁽¹⁾ HORIBA Jobin Yvon France, 16 rue du Canal, Longjumeau, France, 91160,
⁽²⁾ CPAT Université Paul Sabatier, Toulouse, France, ⁽³⁾ HORIBA Ltd, 2 Kisshoin, Miyano Higashi Minami-Ku, Kyoto, Japan, 601-8510
patrick.chapon@jobinyvon.fr

16:00 – 17:00 Poster session and coffee break

17:00 – 17:30 KN 04

DEVELOPMENT AND APPLICATION OF MASS SPECTROMETRY FOR CURRENT SOLID STATE AND MATERIALS RESEARCH
V. Hoffmann, Leibniz Institute for Solid State and Materials Research Dresden, P.O. Box 27 01 16, Dresden, Germany, D-01171
V.Hoffmann@IFW-Dresden.de

17:30 – 17:50 Mo13

COMPOSITIONAL DEPTH PROFILE ANALYSIS BY GLOW DISCHARGE OPTICAL EMISSION SPECTROSCOPY – APPLICATIONS AND RECENT DEVELOPMENT.

A. Bengtson, Corrosion and Metals Research Institute, Drottning Kristinas väg 48, S- 114 28 Stockholm, Sweden; arne.bengtson@kimab.com

17:50 -18:10 Mo14

THE INFLUENCE OF SAMPLE MATRIX ON PROCESSES IN A GLOW DISCHARGE WITH DIRECT SOLUTION SAMPLING.

M. R. Webb, F. J. Andrade, and G. M. Hieftje, Department of Chemistry, Indiana University, Bloomington, IN 47405

Hieftje@indiana.edu

18:10 -18:30 Mo15

CHALLENGES AND SOLUTIONS OF SEPARATION TECHNIQUES COUPLED TO DC-PULSED GLOW DISCHARGE TIME OF FLIGHT MASS SPECTROMETRY.

Daniel Fliegel^{*}, Auristella Vázquez[#], Jose Manuel Costa[#], Marc Gonin[&], Katrin Fuhrer[&], Martin Tanner^{*} and Detlef Günther^{*}.

^{*}Laboratory of Inorganic Chemistry, ETH Zurich, 8093 Zurich, Switzerland

[#]Department of Physics and Analytical Chemistry, University of Oviedo, Spain

[&]Tofwerk, Thun, Switzerland

Email: fliegel@inorg.chem.ethz.ch

Enjoy the Carnival in Taormina

TUESDAY 20 FEBRUARY 2007

Solid State Methods: Laser ablation and related applications.

Chairperson. A. Bengtson

8:00 – 17:00 registration - information

8:30 – 9:00 KN 05

THE IMPORTANCE OF AEROSOL TRANSPORT IN LASER ABLATION-INDUCTIVELY COUPLED PLASMA –MASS SPECTROMETRY

D. Günther, J. Koch, I. Kroslakova, J. Pisonero and M. Wälle

ETH Zürich, Laboratory of Inorganic Chemistry, HCI Hönggerberg, G113, CH-8093 Zürich, Switzerland guenther@inorg.chem.ethz.ch

9:00 : 9:20 Tu01

DETECTION OF TRACE IMPURITIES IN CIGS-SOLAR CELLS BY LASER-ABLATION-ICP-MS

Rainer Dargel¹, Shan Jiang¹, Frank Heinemeyer², Mark Köntges², Carla Vogt¹

¹University of Hannover, Inst. for Inorganic Chemistry, Dept. for Analytical Chemistry, Callinstr. 9, Hannover, Germany, 30167

²Inst. for Solar Energy Research (ISFH), Am Ohrberg 1, Emmerthal, Germany, 31860

Email: Rainer.Dargel@acc.uni-hannover.de

9.20 - 9:40 Tu02

MASS TRANSPORT EFFICIENCY IN FEMTOSECOND-LA-ICP-MS APPLYING ABLATION CELLS FOR BULK AND SINGLE-SHOT ANALYSES

C.C. Garcia, H. Lindner, K. Niemax, ISAS – Institute for Analytical Sciences, Bunsen-Kirchhoff-Str. 11, 44139 Dortmund, Germany garcia@isas.de

9:40– 10:00 Tu03

HIGH PRECISION ISOTOPIC ANALYSIS BY LA-MC-ICP-MS: THE ROLE OF ULTRA SHORT PULSE WIDTH (Fs) LASERS.

B.J. Fryer, J.E. Gagnon, Z. Yang, M. Shaheen, Great Lakes Institute for Environmental Research (GLIER), University of Windsor, Windsor, Ontario, Canada. N9B 3P4

E-mail address: bfryer@uwindsor.ca

10:00 – 10:20 Tu04

ELEMENTAL RESPONSE IN LASER ABLATION INDUCTIVELY COUPLED PLASMA MASS SPECTROMETRY

Bodo Hattendorf, Zhongke Wang and Detlef Günther

Laboratory of Inorganic Chemistry, ETH Zurich, CH-8093 Zurich, Switzerland

e-mail: bodo@inorg.chem.ethz.ch

10:20 – 11:20 poster session, coffee break

11:20 – 11:50 KN 06

LASER ABLATION AND SAMPLE TRANSPORT: THE HEARTBEAT AND BLOOD CIRCUIT OF LA-ICPMS

A. Bogaerts, D. Bleiner and D. Autrique

University of Antwerp, Department of Chemistry, Research group PLASMANT

Universiteitsplein 1, B-2610 Wilrijk-Antwerp, Belgium

E-mail : Annemie.Bogaerts@ua.ac.be

11:50 -12:10 Tu05

INFLUENCE OF LASER WAVELENGTH AND LASER PULSE DURATION ON PARTICLE SIZE DISTRIBUTIONS

Roland Hergenröder, Evgeny Gurevich

ISAS-Institute for Analytical Sciences, Bunsen-Kirchhoff Str.11, 44139 Dortmund, Germany

Hergenroeder@isas.de

12:10 – 12:30 Tu06

COMPARISON OF EFFICIENCY AND PERFORMANCE OF LASER ABLATION SYSTEMS - WHICH SYSTEM FOR WHICH APPLICATION?

Petra Krause¹, Joe Brady², Ralph Delmdahl³, Jan Brune³

¹CETAC Technologies, 242 Bamburgh Avenue, South Shields, NE33 3HX, UK

²CETAC Technologies, 14306 Industrial Road, Omaha, NE 68144, USA

³Coherent GmbH, Hans-Böckler Straße 12, D-37079 Göttingen, Germany

e-mail: pkrause@cetac.com

12:30 – 12:50 Tu07

LASER-INDUCED PLASMAS FROM METALLIC SAMPLES INVESTIGATED USING TIME-OF-FLIGHT SPECTROMETRY AND SIMULATIONS.

Davide Bleiner^{1*}, David Autrique¹, Annemie Bogaerts¹, Fabio Belloni², Vincenzo Nassisi²

¹University of Antwerp, Dept. of Chemistry, Universiteitsplein 1, 2610 Antwerp, Belgium; ²Università di Lecce, Dept. of Physics, Via Arnesano, CP 193, 73100 Lecce, Italy,

* E-mail: davide.bleiner@ua.ac.be

12:50 – 13:10 Tu08

CALIBRATION OF LASER ABLATION INDUCTIVELY COUPLED PLASMA MASS SPECTROMETRY USING ABSORPTION COEFFICIENT MODIFIED PRESSED POWDERS

Barry L. Sharp, Ciaran O' Connor and Mark R. Landon, Analytical Atomic Spectroscopy Group, Department of Chemistry, Loughborough University, Loughborough, Leicestershire, LE11 3TU, UK. b.l.sharp@lboro.ac.uk

13:10 – 14:30 Lunch break

Solid State Methods. Laser ablation and related applications.

Chairperson: L. Ebdon

14:30 - 15:00 KN 07

INDUCTIVELY COUPLED PLASMA MASS SPECTROMETRY: A VERSATILE TOOL FOR DETECTION OF HETERO-ELEMENTS IN PROTEINS

Norbert Jakubowski, Arunachalam Venkatachalam, Ingo Feldmann, Institute for Analytical Sciences, Bunsen-Kirchhoff-Str. 11, Dortmund, Germany, D-44139

jakubowski@isas.de

Christina Koehler, Peter H. Roos, Institute for Occupational Physiology at the University of Dortmund, Ardeystr. 67, Dortmund, Germany, D-44139

15:00 – 15:20 Tu09

IDENTIFICATION AND CHARACTERISATION OF METALLOPROTEINS
SEPARATED BY NON-DENATURATING GEL ELECTROPHORESIS USING A
COMBINATION OF LA-ICP-MS AND MALDI/ESI-MS

J. Susanne Becker^{*}, Sandra Mounicou^{*}, Miroslav V. Zoriy^{**}, J. Sabine Becker^{**}, Ryszard Lobinski^{*}

^{*}Group of Bio-Inorganic Analytical Chemistry, CNRS UMR 5034, Hélioparc 2, F-64053 Pau, France

^{**}Central Division of Analytical Chemistry, Research Centre Juelich, D-52425 Juelich, Germany

susanne.becker@univ-pau.fr

15:20 -15:40 Tu10

IMAGING LA-ICP-MS AND IT'S APPLICATION IN BRAIN RESEARCH

Myroslav V. Zoriy, M. Dehnhardt, K. Zilles and J.S.Becker, Central Department of Analytical Chemistry, Research Center Juelich, Juelich, Germany, D-52425 m.zoriy@fz-juelich.de

15:40 – 16:00 Tu11

MONITORING THE CELL SIGNALING EVENTS USING ICP-MS

Arunachalam Venkatachalam, Ingo Feldmann, Norbert Jakubowski, Institute for Analytical Sciences, Bunsen-Kirchhoff-Str. 11, Dortmund, Germany, D-44139

Angelika Dörrenhaus, Christina Koehler, Peter H. Roos, Institute for Occupational Physiology at the University of Dortmund, Ardeystr. 67, Dortmund, Germany, D-44139 arunachalam@isas.de

16.00 – 17:00 Poster session, coffee break

17:00 -17:20 Tu12

QUANTIFICATION OF FISSION GASES IN HIGH BURNUP FUEL WITH LASER ABLATION ICP-MS

Matthias I. Horvath, Marcel Guillon^{*}, Ines Günther-Leopold, Andrei Izmer, Niko Kivel, Renato Restani and Detlef Günther^{**}

Laboratory for Materials Behavior, Nuclear Energy and Safety, Paul Scherrer Institut, Villigen, CH-5232 Switzerland

^{*} ETH Zürich Institute of Isotope Geochemistry and Mineral Resources, Clausiusstr. 25, 8092 Zürich Switzerland

^{**}Laboratory for Inorganic Chemistry, Trace Elements and Microanalysis Group, ETH Zürich, CH-8093 Switzerland matthias.horvath@psi.ch

17:20 – 17:40 Tu13

APPLICATION OF LASER ABLATION INDUCTIVELY COUPLED PLASMA MASS SPECTROMETRY (LA-ICP-MS) FOR THE INVESTIGATION OF ANCIENT SILVER COINS

G. Sarah, B. Gratuze, J.-N. Barrandon IRAMAT, UMR 5060, Centre Ernest-Babelon, 3D rue de la Férollerie, Orléans, France guillaume.sarah@cnrs-orleans.fr

17:40 -18:00 Tu14

ICPMS AS A TOOL IN IDENTIFYING THE COUNTRY OF ORIGIN OF TEA AND CANNABIS SAMPLES

T. Pilgrim, J. Watling, Centre for Forensic Science, University of Western Australia, M420 35 Stirling Highway, Crawley, Western Australia 6009.

C. Priddis, Forensic Science Lab, Chemistry Centre of Western Australia, 125 Hay Street, East Perth, Western Australia 6004.

K. Grice, Department of Applied Chemistry, Curtin University of Technology, GPO Box U1987, Perth, Western Australia 6145. pilgrimt@tpg.com.au

18:00 – 18:20 Tu15

IMAGING OF PHARMACEUTICALS IN TISSUE VIA LA-ICP-MS AND MALDI-MS

H. Dickson¹, J. Bunch¹, S. Stokes¹, C.W.McLeod¹, R. Mead², ¹Centre for Analytical Sciences, Department of Chemistry, University of Sheffield, Sheffield, South Yorkshire, UK, S3 7HF, ²Academic Neurology Unit, School of Medicine and Biomedical Sciences, University of Sheffield, South Yorkshire, UK, S10 2RX chp05hrd@sheffield.ac.uk

Young Scientist Evening *Un Ballo Maschera*



20:30 Discoteca "Septimo"
Discoteca "Septimo"
Fancy Dress Party

Contact: laura.aldave-de-las-heras@ec.europa.eu or francesco.cubadda@iss.it

WEDNESDAY 21 FEBRUARY 2007

Elemental Speciation and related applications.

Chairperson: K. Francesconi

8:00 – 13:00 registration - information

8:00 – 8:30 KN 08

THE COMBINATION OF ICP-MS AND ESI-MS IN ELUCIDATION OF SELENIUM METABOLISM.

B. Gammelgaard, C. Gabel-Jensen, S. Stürup, The Danish University of Pharmaceutical Sciences, Department of Analytical Chemistry, Universitetsparken 2, DK-2100 Copenhagen, Denmark. bg@dfuni.dk

8:30 - 8:50 W01

IS THE ARSENIC SPECIATION IN FOOD INFLUENCED BY COOKING?

W. Goessler, K. Sundl, K.A. Francesconi, Karl-Franzens University Graz, Institute of Chemistry, Analytical Chemistry, Universitätsplatz 1. Graz, Austria, 8010
walter.goessler@uni-graz.at

8:50 - 9:10 W02

SIMULTANEOUS DETERMINATION OF MERCURY AND SELENIUM SPECIES IN URINE FROM LONG-TERM MERCURY EXPOSED POPULATION BY ONLINE HPLC-ICP-MS

Yu-Feng Li^{†,§}, Chunying Chen^{*,†,§}, Bai Li[†], Jiangxue Wang^{†,§}, Yuxi Gao[†], Yuliang Zhao[†] and Zhifang Chai[†], [†]Key Laboratory of Nuclear Analytical Techniques, Institute of High Energy Physics, Chinese Academy of Sciences, Beijing 100049, China, [#]National Center for Nanoscience & Technology of China (NCNST), Beijing 100080, China, Beijing Synchrotron Radiation Facility, Institute of High Energy Physics, Chinese Academy of Sciences, Beijing 100049, China, and [§]Graduate School of the Chinese Academy of Sciences, Beijing 100049, China Email: chenchy@mail.ihep.ac.cn

9:10– 9:30 W03

CHROMIUM SPECIATION ANALYSIS IN PROFESSIONAL EXPOSED PERSONS: OPTIMIZATION AND VALIDATION OF THE METHOD

G.Mincione, **I.Cenni**, C.Capannesi, C.Cassinelli, P.Bavazzano
Health Public Laboratory of Florence, 12 San Salvi street, Florence, Italy, 50135 giovanna.mincione@asf.toscana.it

9:30 – 9:50 W04

ANALYSIS OF INORGANIC SELENIUM SPECIES IN ALGAL MEDIUM OVER TIME DURING EXPOSURE TO *CHLORELLA VULGARIS*

D.B.S.Simmons and D. Wallschläger, Trent University, Environmental Resources Department, 1600 West Bank Drive, Peterborough, ON, Canada, K9J 7B8
deninasimmons@trentu.ca

9:50– 11:50 poster session, coffee break

11:50 – 12:20 KN 09

A TALE FROM THE BIOINORGANIC TEXTBOOK AND HOW ICP-MS CAN ASSIST TO GIVE THE ARSENIC STORY AN UNEXPECTED TWIST

Jörg Feldmann^{*}, A. Raab^{*}, S.H. Wright^{*}, M. Jaspars^{*}, A. Meharg⁺, B.F. Milne[°]

^{*} University of Aberdeen, School of Engineering and Physical Science, Meston Walk, Aberdeen, Scotland, UK, AB 24 3UE

⁺ University of Aberdeen, School of Biosciences, Tillydrone Ave, Aberdeen, Scotland, UK, AB24 2TZ

[°] Universidade do Porto, Faculdade de Farmácia, Rua Aníbal Cunha – 164, Porto, Portugal, 4050-047 j.feldmann@abdn.ac.uk

12:20 – 12:50 KN 10

SELENIUM ACCESSIBILITY AND EXPRESSION IN HUMAN BIOMARKERS FOLLOWING LONG-TERM SUPRA-NUTRITIONAL SUPPLEMENTATION

Erik H. Larsen, Technical University of Denmark, The National Food Institute, Mørkhøj Bygade 19, DK-2860 Søborg, Denmark. E-mail ehl@food.dtu.dk

12:50 -13:10 W05

A COMBINATION OF ICP - MASS SPECTROMETRY AND SYNCHRONTRON X-RAY TECHNIQUES FOR STUDYING ZN UPTAKE BY *DAPHNIA MAGNA*

F. Vanhaecke, L. Balcaen, Ghent University, Department of Analytical Chemistry, Proeftuinstraat 86, Ghent, Belgium, BE9000

B. De Samber, L. Vincze, Ghent University, Department of Analytical Chemistry, Krijgslaan 281-S12, Ghent, Belgium, BE9000

K. De Schampheleare, C.R. Janssen, Ghent University, Department of Environmental Toxicology and Aquatic Ecology, Jozef Plateaustraat 22, Ghent, Belgium, BE9000

Frank.Vanhaecke@UGent.be

13:10 – 13:30 W06

APPLICATIONS WITH INDUCTIVELY COUPLED PLAMSA MASS SPECTROMETRY (ICPMS) IN HUMAN EXPOSURE STUDIES

Petra Krystek^{1,2}, Rob Ritsema¹

¹National Institute for Public Health and the Environment (RIVM), Bilthoven, the Netherlands, 3720 BA

² present address: DSM Resolve, Geleen, the Netherlands, 6160 MD

petra.krystek@dsm.com rob.ritsema@rivm.nl

13:30 – 13:50 W07

FRACTIONATION, SPECIATION AND DETERMINATION OF ANTIMONY IN ATMOSPHERIC AEROSOLS BY PLASMA-BASED TECHNIQUES

P. Smichowski, D. R. Gómez, Comisión Nacional de Energía Atómica, Unidad de Actividad Química, Centro Atómico Constituyentes, Av. Gral. Paz 1499, Pcia. de Buenos Aires, Argentina, B1650KNA. E-mail: smichows@cnea.gov.ar

13:50 – 14:10 W08

CARBON LOADED ICP WITH COLLISION CELL ICPMS: A POWERFUL TOOL FOR THE ACCURATE DETERMINATION OF METHYL-SELENIUM COMPOUNDS IN BIOPHARMACEUTICALS BY ISOTOPE DILUTION ANALYSIS

Heidi Goenaga-Infante, Justine Turner, Emma Warburton and Ruth Hearn

LGC Limited, Queens Road, Teddington, Middlesex TW11 OLY, UK

Heidi.Goenaga.Infante@lgc.co.uk

14:10 – 14:30 W09

NATURAL BACKGROUND CONCENTRATIONS OF ANTIMONY AND LEAD IN ANCIENT ARCTIC ICE AND PRISTINE GROUNDWATERS USING ULTRA CLEAN ROOM PROCEDURES AND SECTOR FIELD ICP-MS

M. Krachler,^a J. Zheng,^{a,b} D. Fisher^b and W. Shotyk^a; ^a University of Heidelberg, Institute of Environmental Geochemistry, Im Neuenheimer Feld 236, 69120 Heidelberg, Germany,

^b Geological Survey of Canada, Northern Canada, 601 Booth Street, Ottawa, K1A 0E8, Canada. e-mail: krachler@ugc.uni-heidelberg.de

Enjoy a Free Afternoon

THURSDAY 22 FEBRUARY 2007

Speciation: Metallomics and Proteomics and related applications

Chairperson: J. Caruso

8:00 – 17:00 registration - information

8:30 – 9:00 KN 11

PROBING ELEMENTAL SPECIATION IN THE BIOLOGICAL ENVIRONMENT - THE ON-GOING CHALLENGE TO ICP (AND NOT ONLY!) MS. **Ryszard Lobinski**,

Equipe de Chimie Analytique Bioinorganique, CNRS UMR 5034, Hélioparc, 2, av. pr. Angot, Pau, France, F-64053 ryszard.lobinski@univ-pau.fr

9:00 : 9:20 Th01

ASSOCIATION OF CD-CHELEX ASSAY WITH SEC-HPLC-ICP-MS FOR QUANTIFICATION OF TOTAL MT, APO-MT AND METAL BOUNDS TO MT IN BIOLOGICAL SAMPLES

M. Malavolta^{1*}, F. Piacenza¹, L. Costarelli¹, R. Giacconi¹, E. Muti¹, C. Cipriano¹, S. Tesei¹, S. Spezia², E. Mocchegiani¹

¹Immunology Ctr. (Sect. Nutrition, Immunity and Ageing), Res. Dept. INRCA, via Birarelli 8 Ancona, Italy . 60100

²Thermo Fisher Scientific, Strada Rivoltana, Rodano (MI) Italy, 20090

m.malavolta@inrca.it

9.20 - 9:40 Th02

STUDIES ON ELEMENTAL LABELLING USING ICP-MS BASED HYPHENATED TECHNIQUES

Jörg Bettmer, Wolfram Brüchert, Andreas Helfrich, Ralf Krüger, Nico Zinn Johannes Gutenberg-University Mainz, Institute of Inorganic Chemistry and Analytical Chemistry, Duesbergweg 10-14, Mainz, Germany, D-55128 bettmer@uni-mainz.de

9:40– 10:00 Th03

COMPREHENSIVE CHARACTERISATION OF ZINC-BINDING PROTEINS IN BACTERIAL CELL LYSATES USING 2D LIQUID CHROMATOGRAPHY COUPLED WITH ICP-MS AND MALDI-QTOF-MS.

Sarah Stokes, Josephine Bunch, Cameron McLeod, Alison Graham¹ and Robert Poole¹

The Centre For Analytical Sciences, The University of Sheffield, Sheffield, UK, S3 7HF

¹The Department for Molecular Biology and Biotechnology, The University of Sheffield, Sheffield, UK S10 2TN S.Stokes@sheffield.ac.uk

10:00 – 10:20 Th04

COMPLEMENTARY BIOANALYTICAL AND BIOCHEMICAL TOOLS TO STUDY CIS-PLATIN INTERACTIONS WITH DNA NUCLEOBASES.

Maria Montes-Bayón, Daniel García Sar, Elisa Blanco González, Maria Sierra Zapico* and Alfredo Sanz Medel. Department of Physical and Analytical Chemistry. Faculty of Chemistry. University of Oviedo. C/ Julián Clavería 8. 33006 Oviedo. Spain.

*Department of Genetics. Faculty of Biology. C/ Catedrático Rodrigo Uría s/n, 33006 Oviedo. Spain. montesmaria@uniovi.es

10:20 – 11:20 poster session, coffee breaks

11:20 – 11:50 KN 12

MS-BASED PROTEOMICS TURNS QUANTITATIVE: AN EXCELLENT OPPORTUNITY FOR THE ICP-MS

Alfredo Sanz-Medel

Department of Physical and Analytical Chemistry, University of Oviedo, c/Julián Clavería, 8, Oviedo, Asturias, Spain, 33006 asm@uniovi.es

11:50 -12:10 Th05

EVALUATION OF ICP-MS AS DETECTION SYSTEM FOR QUANTITATIVE ELEMENT-TAGGED IMMUNOASSAY

M. Careri, L. Elviri, M. Maffini, A. Mangia and **C. Mucchino**

Università degli Studi di Parma, Dipartimento di Chimica Generale ed Inorganica, Chimica Analitica, Chimica Fisica, viale G.P. Usberti 17/A, I-43100 Parma, Italy. claudiom@unipr.it

12:10 – 12:30 Th06

SPECIATION OF ESSENTIAL AND/OR TOXIC ELEMENTS IN HUMAN AND FORMULA MILK BY ELEMENTAL AND MOLECULAR MASS SPECTROMETRY.

H. González Iglesias¹, **M. L. Fernández Sánchez**¹, J. B. López Sastre² and A. Sanz-Medel¹,
¹Department of Physical and Analytical Chemistry, University of Oviedo, c/ Julián Clavería, 8 – 33006. Oviedo. Spain. Phone: +34 98 510 34 85. Fax: +34 98 510 31 25, ²Department of Neonatology. “Hospital Central de Asturias”. Oviedo e-mail: marisafs@uniovi.es

12:30 – 12:50 Th07

NEW APPROACHES TO CISPLATIN METALLOMICS

D. Esteban-Fernández*, M.M. Gómez-Gómez, I. Pizarro, B. Canas, M.A. Palacios, Universidad Complutense de Madrid, Facultad de Ciencias Químicas, Departamento de Química Analítica, Ciudad Universitaria s/n, 28040 Madrid desteban@quim.ucm.es

12:50 – 13:10 Th08

CAPILLARY HPLC-ICPMS: A GENERIC APPROACH FOR ABSOLUTE QUANTITATIVE PHOSPHOPROTEOMICS

J. Ruiz Encinar, A. Pereira Navaza, A. Sanz-Medel, University of Oviedo, Department of Physical and Analytical Chemistry, Julián Clavería 8, Oviedo, Spain, 33006.

E-mail: ruizjorge@uniovi.es

13 :10 – 13 :30 Th09

SECTOR FIELD ICP-MS FOR QUANTITATIVE PROTEOMICS USING METAL CODED AFFINITY TAGS (MECAT)

T. Lindemann¹, S. McSheehy¹, S. Pieper², C. Scheler³, M. Linscheid²,

1) Thermo Fisher Corporation Hanna-Kunath-Strasse 11, 28199 Bremen, Germany,

2) Analytical and Environmental Chemistry, Humboldt-University Berlin, Brook-Taylor-Strasse 2, 12489 Berlin, Germany,

3) Proteome Factory AG, Dorotheenstr. 94, 10117 Berlin, Germany

torsten.lindemann@thermofischer.com

13:30 – 15:00 Lunch break

Stable and radioisotope analysis.
Chairperson K. Heumann

15:00 - 15:30 KN 13

ISOTOPE RATIO MEASUREMENTS IN MASS SPECTROMETRY: NEW SOLUTIONS FOR OLD PROBLEMS

J. I. García Alonso, University of Oviedo, Department of Physical and Analytical Chemistry, Julián Clavería 8, Oviedo, Spain, 33006 jiga@uniovi.es.

15:30 – 15:50 Th10

DETERMINATION OF TRACE ELEMENTS IN SEDIMENTS BY SEQUENTIAL CLOUD POINT EXTRACTION AND ISOTOPE DILUTION INDUCTIVELY COUPLED PLASMA MASS SPECTROMETRY.

M. F. Giné, A. F. Patreze, C. H. Abreu and J. R. Ferreira, Centro de Energia Nuclear na Agricultura, Universidade de São Paulo, Av. Centenário 303, Piracicaba SP, Brazil CEP 13400-970 mfgine@cena.usp.br

15:50 -16:10 Th11

INDUCTIVELY COUPLED PLASMA MASS SPECTROMETRY DETECTION OF GOLD LABELLED NUCLEIC ACIDS

Samantha L. Kerr and Barry L. Sharp, Analytical Atomic Spectroscopy Group, Department of Chemistry, Loughborough University, Loughborough, Leicestershire, UK. LE11 3TU. s.l.kerr@lboro.ac.uk

16:10 – 16:30 Th12

HIGH ACCURACY ISOTOPE RATIO MEASUREMENTS USING MULTI-COLLECTOR ICP-MS: SOLUTIONS TO WIDESPREAD PROBLEMS

Rebeca Santamaria-Fernandez and Ruth Hearn
LGC, Queens Road, Teddington, Middlesex, TW11 0LY, UK E-mail: rsf@lgc.co.uk

16:30 – 17:30 Poster session, coffee breaks

17:30 -18:00 KN 14

ISOTOPIC FINGERPRINTS – A UNIQUE PIECE OF INFORMATION (?)

T. Prohaska, S. Boulyga, P. Galler, S. Swoboda, G. Stingeder, University of Natural Resources and Applied Life Sciences - Vienna, Department of Chemistry, Division of Analytical Chemistry - VIRIS Laboratory, Muthgasse 18, Vienna, Austria, A-1190 e-mail: thomas.prohaska@boku.ac.at

18:00 – 18:20 Tu13

³¹P ELEMENT SPECIFIC DETECTION: A NEW APPROACH FOR CHEMICAL WARFARE AGENT DETECTION

Douglas D. Richardson and Joseph A. Caruso*
Department of Chemistry, University of Cincinnati, Cincinnati, Ohio 45221-0172, USA
Email: joseph.caruso@uc.edu

18:20 -18:40 Th14

PRECISE DETERMINATION OF ⁴⁴Ca/⁴⁰Ca ISOTOPE RATIOS BY USING ICP-MS

WITH DYNAMIC REACTION CELL AND ITS POTENTIAL FOR FOOD
AUTHENTICITY STUDIES

S.F. Boulyga, S. Swoboda, M. Brunner, M. Horacek*, D. Bandura**, U. Klötzli***,
G. Stinger, T. Prohaska, University of Natural Resources and Applied Life
Sciences, Department of Chemistry, Division of Analytical Chemistry, VIRIS
Laboratory, Muthgasse 18, Vienna, Austria, A-1190, *ARC Seibersdorf Research
GmbH, Environmental Research, Seibersdorf, Austria, A-2444, **Institute for
Biomaterials and Biomedical Engineering University of Toronto, 164 College Street,
Toronto, Canada, M5S 3G9, ***Department of Lithospheric Research University
Vienna, Althanstrasse 14, Vienna, Austria, A-1090 sergei.boulyga@boku.ac.at

18.40 -19.00 Th15

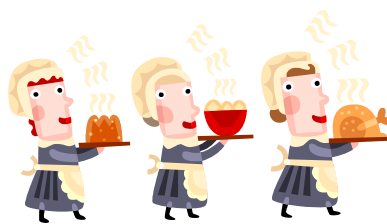
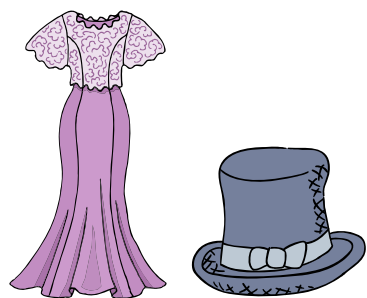
FRACTIONATION OF MERCURY ISOTOPES IN THE ENVIRONMENT AND PRECISE
MEASUREMENT OF MERCURY ISOTOPE RATIOS BY MC-ICP/MS

H. Hintelmann, D. Foucher, W. Zheng, Trent University, Department of Chemistry, 1600
West Bank Drive, Peterborough ON K9J 7B8, Canada hhintelmann@trentu.ca

19:00 – 19:20 Th16

Sr ISOTOPIC ANALYSIS OF HUMAN BONE AND TOOTH TISSUE EXCAVATED AT
THE CEMETERY OF THE SINT-SERVATIUS CHURCH (MAASTRICHT, THE
NETHERLANDS) USING MULTI-COLLECTOR – ICP – MASS SPECTROMETRY

D. De Muynck¹, G. Quitté², F. Oberli², E. Smits³, L. Moens¹ and F. Vanhaecke¹ ¹ Ghent
University, Department of Analytical Chemistry, Proeftuinstraat 86, Ghent, Belgium, B –
9000 ² ETH Zentrum, Institut für Isotopengeologie und Mineralische Rohstoffe,
Clausiusstrasse 26, Zürich, Switzerland, CH – 8092 ³ University of Amsterdam, Amsterdam
Archaeological Centre, Turfdraggsterpad 9, Amsterdam, The Netherlands, NL – 1012
David.DeMuynck@UGent.be



Gala Dinner and Poster Award Ceremony

20:30

Hotel Villa Diodoro



FRIDAY 23 FEBRUARY 2007

Stable and Radioisotope analysis.

Chairperson S. Caroli

8:30 – 9:00 KN 15

PROGRESS ON ISOTOPE ANALYSIS OF STABLE ISOTOPES AND RADIONUCLIDES BY ICP-MS AND LA-ICP-MS

J. Sabine Becker

Central Division of Analytical Chemistry, Research Centre Jülich, D-52425 Jülich, Germany;
s.becker@fz-juelich.de

9:00 : 9:20 Fr01

ICP-MS AS PERFECT TOOL FOR THE CHARACTERISATION OF NUCLEAR FUEL SAMPLES?

I. Günther-Leopold, N. Kivel, J. Kobler Waldis, B. Wernli Paul Scherrer Institut, Department of Nuclear Energy and Safety Research, Isotope and Elemental Analysis, Villigen PSI, Switzerland, 5232 ines.guenther@psi.ch

9:20 - 9:40 Fr 02

ISOTOPIC CHARACTERIZATION OF SOME ALPHA EMITTERS IN CUBAN SOIL: A PRELIMINARY EVALUATION BY Q-ICP-MS

M.L. Cozzella¹, N. Cogliati.², M. Mariani³, R. Sibello Hernandez⁴, S. Spezia⁵, E. Trivellone³

¹ ENEA, Radiation Protection Institute, via Anguillarese 301, 00123 Santa Maria di Galeria (Roma), Italy.

² CESI S.p.A., via Nino Bixio 39, 29100 Piacenza, Italy.

³ Politecnico di Milano, Dipartimento di Ingegneria Nucleare, CeSNEF, via Ponzio 34/3, 20133 Milano, Italy

⁴ Centro de Estudios Ambientales de Cienfuegos, Carretera Castillo del Jagua Km 1 ½, Cienfuegos, Cuba

⁵ Thermo Fisher Scientific, Strada Rivoltana, 20090 Rodano (MI), Italy

letizia.cozzella@casaccia.enea.it

9:40– 10:00 Fr 03

MEASUREMENT OF ISOTOPE RATIOS BY ION CHROMATOGRAPHY COUPLED TO MULTICollector ICP-MS

M. Moldovan, S. García-Ruiz, J.A. Rodríguez-Castrillón, J.I. García-Alonso, University of Oviedo, Department of Physical and Analytical Chemistry, Julián Clavería 8, Oviedo, Spain, 33006. E-mail: moldovanmariella@uniovi.es

10:00 – 10:20 Fr 04

EVALUATION OF TRUENESS FOR ISOTOPIC MEASUREMENTS IN NUCLEAR PROBLEMATICS : APPLICATION TO CESIUM ISOTOPIC COMPOSITION IN NUCLEAR FUEL SAMPLES

H. Isnard, M. Aubert , F. Chartier, E. Ducarme, B. Tran

CEA Saclay, DEN/DPC/SECR/LANIE, 91191 Gif sur Yvette, France.

helene.isnard@cea.fr

10:20 – 10:40 Fr 05

INVESTIGATION OF URANIUM OXIDE SAMPLES USING ICP-SFMS:
DETERMINATION OF IMPURITIES AND ISOTOPE RATIOS

Zs. Stefánka, Zs. Varga and T. Bíró, Institute of Isotopes of the Hungarian Academy of Sciences, Department of Radiation Safety, Konkoly-Thege M. út 29-33. Budapest, Hungary, H-1121 e-mail: stefanka@iki.kfki.hu

10:40 – 11:00 Coffee break

11:00– 11:30 KN 16

FROM MARIE CURIE TO GLEN SEABORG AND BEYOND: HOW SF-ICPMS IS
(IN)VALUABLE IN ENVIRONMENTAL RADIOCHEMISTRY

Michael E. Ketterer, Department of Chemistry and Biochemistry, Northern Arizona University, Box 5698, Flagstaff, AZ 86011-5698 USA Michael.Ketterer@nau.edu

11:30 -11:50 Fr06

INVESTIGATION OF URANIUM POLLUTION IN A FORMER URANIUM MINING
AREA IN HUNGARY

Gy. Záray¹, Zs. Varga², V. G. Mihucz³, E. Tatár¹, I. Virág¹, R. van Grieken⁴, M. Kázmér⁵

¹Eötvös Loránd University, Department of Analytical Chemistry, Pázmány Péter sétány 1/A. H-1117 Budapest, Hungary

²Hungarian Academy of Sciences, Institute of Isotopes, Department of Radiation Safety, Konkoly-Thege Miklós 29-33. H-1121 Budapest, Hungary

³Hungarian Satellite Centre of Trace Elements Institute to UNESCO, Pázmány Péter sétány 1/A. H-1117 Budapest, Hungary

⁴University of Antwerp, Department of Chemistry, Micro- and Trace Analysis Centre (MiTAC) Campus Drie Eiken, Universiteitplein 1, BE-2610 Antwerp-Wilrijk, Belgium

⁵Eötvös Loránd University, Department of Palaeontology, Pázmány Péter sétány 1/C. H-1117 Budapest, Hungary zaray@ludens.elte.hu

11.50 – 12:10 Fr07

U-TH-PU ISOTOPE ANALYSES OF SOIL BY ID-MC-ICP-MS AND LA-ICP-MS
ANALYSES OF SPHERICAL PARTICLES FROM THE ELBMARSCH, NORTHERN
GERMANY.

A. Gerdes, J.W. Goethe-University, Institute of Geosciences, Senckenberganlage 28, Frankfurt am Main, Germany, 60054
gerdes@em.uni-frankfurt.de

12:10– 12:30 Fr08

ULTRATRACE-LEVEL ENVIRONMENTAL TRANSURANIC ANALYSIS BY ICP-
SFMS FOR ORIGIN ASSESSMENT

Z. Varga, Z. Stefánka, Hungarian Academy of Sciences, Institute of Isotopes, Department of Radiation Safety, Konkoly-Thege Miklós 29-33. H-1121 Budapest, Hungary
varga@iki.kfki.hu

12:30 – 13:00 Closing Ceremony



***2008 Winter Conference on
Plasma Spectrochemistry
Temecula, California, January 6–12, 2008***

Call for Papers

The 15th biennial international Winter Conference will be held at the Pechanga Resort & Casino (www.pechanga.com) in Temecula, California (www.temecula.org). More than 600 scientists are expected, and over 300 papers on modern plasma spectrochemistry will be presented. Six plenary lectures and 22 invited speakers will highlight critical topics in 12 symposia. The deadline for submission of preliminary abstracts and titles is July 13, 2007.

Symposium Features

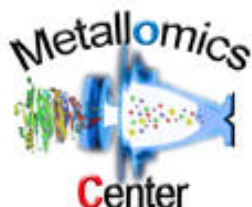
- Elemental speciation and sample preparation
- Excitation mechanisms and plasma phenomena
- Flow injection and flow processing spectrochemical analysis
- Glow discharge atomic and mass spectrometry
- Inductively coupled plasma atomic and mass spectrometry
- Laser ablation and breakdown spectrometry
- Microwave atomic and mass spectrometry
- Plasma chromatographic detectors
- Plasma instrumentation, microplasmas, automation, and software innovations
- Sample introduction and transport phenomena
- Sample preparation, treatment, and automation; high-purity materials
- Spectrochemical chemometrics, expert systems, and software
- Spectroscopic standards and reference materials, databases
- Stable isotope analyses and applications

Also

- Continuing Education Short Courses, Friday - Sunday, January 4 - 6
- Manufacturer's Seminars, Friday - Sunday, January 4 - 6
- Annual Golf Tournament, Sunday, January 6
- Plasma Spectroscopy Instrumentation Exhibition, Tuesday-Thursday, January 8-10
- Six Provocative Panel Discussions, Daily
- Workshop on New Plasma Instrumentation, Tuesday-Thursday, January 8 – 10

Information

For program, registration, hotel, and transportation details, visit the Conference website at <http://www-unix.oit.umass.edu/~wc2006>, or contact Ramon Barnes, ICP Information Newsletter, Inc., P.O. Box 666, Hadley, MA 01003-0666, telephone: 413-256-8942, fax 413-256-3746, e-mail wc2006@chem.umass.edu.



See You in Graz (Austria)
at the 2009 European Winter Conference
on Plasma Spectrochemistry