CONFERENCE PROGRAMME

Sunday, 30 January 2005

ROOM 2001

08.50 – 10.00	*Biomedical ICP-MS Analysis Workshop*
10.00 – 10.20	*Coffee break*
10.20 – 11.30	*Biomedical ICP-MS Analysis Workshop (cont.)*
11.30 – 11.50	*Coffee break*
11.50 – 13.00	*Biomedical ICP-MS Analysis Workshop (cont.)*

LOUNGE

14.00 – 18.00 Registration

AULA

15.00 Exhibition Opening

ROOM A

16.00 – 16.40 **Welcome Address**
Sándor GÖRÖG
Head of the Division of Chemistry, Hungarian Academy of Sciences

Opening Lecture
Péter FODOR
Conference Chair

16.40 – 18.00 **2005 Plasma Award Lecture**

Plenary REMAINING CHALLENGES IN ICP-AES
J. M. MERMET

18.00 – 20.00 Welcome Reception

Monday, 31 January 2005

ROOM A

08.30 – 09.00 **Plasma Fundamentals**
Chair: Les EBDON

Plenary STRATEGIES FOR SIMULTANEOUS MEASUREMENT IN PLASMA SPECTROMETRY
Gary M. HIEFTJE, Francisco J. ANDRADE, Robert McCRINDLE, Steven J. RAY, Duane A. ROGERS, Gregory D. SCHILLING, Michael R. WEBB, William C. WETZEL, M. Bonner DENTON, Roger P. SPERLINE, David W. KOPPENAAL, Charles J. BARINAGA, Birgit PESCHEl, José A.C. BROEKAERT

09.00 – 10.00 **Plasma Fundamentals**
Chair: Les EBDON

09.00 – 09.20 FROM ALAN GRAY UNTIL TODAY – 20 YEARS OF LASER ABLATION-ICP-MS
Invited *Detlef GÜNTHER*

09.20 – 09.40 LASER ABLATION PLASMA SPECTROMETRY TECHNIQUES IN DEPTH PROFILE ANALYSIS: LIMITATIONS AND POSSIBILITIES
Invited *Viktor KANICKÝ, Karel NOVOTNÝ, Ales HRDLICKA, Tomas VACULOVIC, Linda ZAORALKOVA, Vítezslav OTRUBA, Detlef GÜNTHER*

09.40 – 10.00 INTERFACING NEEDS AMONG ANALYTICAL CHEMISTRY AND POLICY IN THE CONTEXT OF THE WATER FRAMEWORK DIRECTIVE IMPLEMENTATION
Invited *Philippe QUEVAUVILLER*

10.00 – 10.20 *Coffee break*

ROOM A

10.20 – 12.00 **Plasma Application**
Chair: Freddy ADAMS

10.20 – 10.40 APPLICATIONS OF FIELD-FLOW FRACTIONATION - INDUCTIVELY COUPLED PLASMA MASS SPECTROMETRY
Invited *Sumattana WORAPANOND, Juwadee SHIOWATANA, Atitaya SIRIPINYANOND, Ramon BARNES*

10.40 – 11.00 USE OF CHEMICAL RESOLUTION IN A DYNAMIC REACTION CELL (DRC) IN LASER ABLATION – ICPMS
Frank VANHAECKE, Lieve BALCAEN, Cyrille CHÉRY, Isolde DECONINCK, Martín RESANO, Luc MOENS

11.00 – 11.20 BIOMONITORING OF HEAVY METAL INTOXICATION AND MOBILIZATION IN HUMAN HAIR BY LA-ICP-MS
Thomas PROHASKA, Christina STADLBAUER, Christian REITER, Anna KNAUS, Gerhard STINGEDER

11.20 – 11.40 NEW INSIGHTS TO PARTICLE FORMATION PROCESSES DURING LASER ABLATION: VAPOUR CONDENSATION VERSUS DROPLET EJECTION
Hans-Rudolf KUHN, Detlef GÜNTHER

11.40 – 12.00 INVESTIGATION OF VAPORIZATION PROCESSES FOR ELECTROTHERMAL VAPORIZATION SAMPLE INTRODUCTION IN INDUCTIVELY COUPLED PLASMA MASS SPECTROMETRY
M.T.C. de LOOS-VOLLEBREGT, A.B. VOLYNSKY

ROOM B

10.20 – 12.00 **Coupled Plasma Techniques**
Chair: György HELTAI

10.20 – 10.40 ***Invited*** DIRECT SOLIDS ANALYSIS OF REFRACTORY POWDERS BY PLASMA ATOMIC SPECTROMETRIC METHODS
José A. C. BROEKAERT

10.40 – 11.00 SPECIATION OF ALUMINIUM IN SILICON CARBIDE BY ETV-ICP-AES METHOD
Gyula ZÁRAY, Jürgen HASSLER, Karol FLÓRIÁN

11.00 – 11.20 DIRECT DETERMINATION OF MERCURY AT THE SUB-PG/G LEVEL IN POLAR SNOW AND ICE BY ICP-SFMS
F.A.M. PLANCHON, P. GABRIELLI, P.A. GAUCHARD, A. DOMMERGUE, C. BARBANTE, W.R.L. CAIRNS, G. COZZI, S.A. NAGORSKI, C.P. FERRARI, C.F. BOUTRON, G. CAPODAGLIO, P. CESCON, A. VARGA, E. WOLFF

11.20 – 11.40 INDUCTIVELY COUPLED PLASMA EMISSION SPECTROMETRY – INFLUENCE OF THE ICP-FREQUENCIES AND SPECTROMETER TYPE ON THE DETECTION LIMITS IN THE DETERMINATION OF Y, Zr, Nb, Hf, Ta AND Th IN GEOLOGICAL MATERIA
Nikolaya VELITCHKOVA, Nonka DASKALOVA, Elka PENTCHEVA

11.40 – 12.00 PRECISE DETECTION OF U-236 AND PU ISOTOPES IN HUMAN URINE AT PPQ TO SUB-PPQ LEVEL
Axel GERDES

ROOM C

10.20 – 12.00 **New Instrumentation**
Chair: András BARTHA

10.20 – 10.40 BENEFITS AND OPERATING LIMITS OF A QUASI-DIRECT INJECTION NEBULISATION (QDIN) SYSTEM IN USE WITH A THERMO FINNIGAN ELEMENT II ICP-MS
Michael BENSIMON, Aurele PARRIAUX, Alan R. EASTGATE

10.40 – 11.00 ANALYSIS OF PBDES BY GC-ICP-MS - THE CHROMATOGRAPHIC ADVANTAGES OF USING ICP-MS AS A GC DETECTOR
Steven WILBUR, Emmett SOFFEY

11.00 – 11.20 HELIUM COLLISION MODE – THE ULTIMATE SOLUTION FOR COMPLEX, UNKNOWN SAMPLE MATRICES
Ed MCCURDY, Glenn WOODS, Steven M. WILBUR, Emmett SOFFEY

11.20 – 11.40 TRACE ELEMENT DETERMINATION IN THE EARTH SCIENCES: MEETING THE CHALLENGES
Janet HERGT, Jon WOODHEAD, Stephen ANDERSON

11.40 – 12.00 ICP-MS WITH COLLISIONAL INTERFACE, ION MIRROR ION OPTICS AND LOW NOISE QUADRUPOLE
Iouri KALINITCHENKO

12.00 – 14.00 *Lunch break*

ROOM A

14.00 – 15.00 **Speciation**
Chair: Olivier DONARD

14.00 – 14.30 SERUM TRANSFERRIN: AN INTRIGUING TRANSPORT PROTEIN FOR METALS
Plenary *A. SANZ-MEDEL, M. MONTES, S. ARIZAGA, K.G. FERNANDES, E. BLANCO*

14.30 – 15.00 ADVANCES IN ENZYMATIC SAMPLE TREATMENT FOR SPECIATION USING ULTRASONIC PROBE
Invited *C. CÁMARA, A. CABAÑERO, E. SANZ, R. MUÑOZ-OLIVAS, Y. MADRID*

15.00 – 15.30 *Coffee break*

ROOM A

15.30 – 16.50 **Speciation *(cont.)***
Chair: Olivier DONARD

15.30 – 15.50 SELENIUM METABOLISM - QUANTIFICATION OF SELENIUM METABOLITES IN HUMAN URINE. IS THE TRIMETHYLSELNONIUM ION A CONSTITUENT OF HUMAN URINE?
Bente GAMMELGAARD, Lars BENDAHL

15.50 – 16.10 ISSUES AFFECTING THE MASS BALANCE OF ARSENIC AND SELENIUM SPECIATION IN COMPLEX INDUSTRIAL PROCESS WATERS
Dirk WALLSCHLÄGER, Claudio N. FERRARELLO, Jacqueline LONDON

16.10 – 16.30 SELENIUM-SPECIFIC DETECTION AND IDENTIFICATION OF METHYL-SELECYSTEINE-CONTAINING COMPOUNDS IN YEAST-BASED Se-ENRICHED SUPPLEMENTS BY HPLC WITH ICP-MS AND ELECTROSPRAY MS/MS DETECTION
Heidi GOENAGA INFANTE, Gavin O'CONNOR, Margaret RAYMAN, Ruth HEARN, Tim CATTERIC

16.30 – 16.50 LC-ICP-MS AND LC-ESI-MS FOR THE CHARACTERIZATION OF METALLOPROTEINS IN INTERDISCIPLINARY BIOINORGANIC STUDIES
Gunda KOELLENSPERGER, Stephan HANN, Christian OBINGER, Paul FURTMUELLER, Gerhard STINGEDER

ROOM B

15.30 – 16.50 **Isotop Analysis**
Chair: Gábor GALBÁCS

15.30 – 15.50 CHERNOBYL PLUTONIUM AND AMERICIUM IN EASTERN EUROPE: SOURCE AND TRANSPORT STUDIES BY SECTOR ICPMS
Michael E. KETTERER, Gary D. MACLELLAN, Brighid S. CORCORAN, Kevin M. HAFER, Scott C. SZECHENYI, Jerzy W. MIETELSKI, Michael G. BUZINNY, Sergei GULIN, Sergei F. BOULYGA

15.50 – 16.10 RAPID TECHNIQUES FOR THE DETERMINATION OF PU AND AM IN ENVIRONMENTAL MATRICES USING MICROWAVE SAMPLE PREPARATION, ON-LINE SAMPLE INTRODUCTION WITH APEX HIGH-SENSITIVITY SYSTEM AND ICP-DRC-MS DETECTION
V.N. EPOV, K. BENKHEDDA, D. BROWNELL, R.D. EVANS, R.J.CORNETT

16.10 – 16.30 DETERMINATION OF SR-90 AND PU ISOTOPES RATIO MEASUREMENTS IN CONTAMINATED GROUND WATER SAMPLES BY INDUCTIVELY COUPLED PLASMA MASS SPECTROMETRY
Myroslav V. ZORIY, P. OSTAPCZUK, C. PICKHARDT, R. HILLE, J.S.BECKER

16.30 – 16.50 THE ANALYSIS OF PHARMACEUTICALS BY ICP-MS: A STIFF CHALLENGE
Robert CLOUGH, Peter EVANS, E.Hywel EVANS

ROOM C

15.30 – 16.50 New Instrumentation
Chair: András BARTHA

15.30 – 15.50 DETECTOR TECHNOLOGIES FOR ATOMIC EMISSION: A BRIEF REVIEW WITH A FOCUS ON THE CURRENT STATE-OF-THE-ART
Peter BROWN, David PFEIL, Bert VAN DER HOEF

15.50 – 16.10 HIGH SPEED HIGH THROUGHPUT ANALYSIS OF ENVIRONMENTAL SAMPLES USING ICP-OES
Bert VAN DER HOEF, Peter BROWN, David PFEIL

16.10 – 16.30 LASER ABLATION ICP-OES FOR BULK ANALYSIS OF STEELS AND REFRACTORY GEOLOGICAL SAMPLES
Geoff TYLER, Isaac (Joe) BRENNER, Damon GREEN, Lawrence NEUFELD

16.30 – 16.50 CORRELATION ANALYSIS IN ICP-OES: AN EFFICIENT TOOL FOR THE DETERMINATION OF SUITABLE ANALYTE AND BACKGROUND EMISSION REGIONS IN LINE-RICH MATRIX SPECTRA
Dirk ARDELT, Lutz NEITSCH, Peter IVANOV

LOUNGE

17.00 – 19.00 Poster Session 1

Plasma Application and Development

M01 MEASUREMENT OF MERCURY ISOTOPE RATIOS IN ENVIRONMENTAL SAMPLES USING MC-ICP/MS
Holger HINTELMANN, Delphine FOUCHER, Mark DZURKO

M02 SYNTHESIS, SEPARATION AND QUANTIFICATION OF GOLD-NANOPARTICLES USING ICP-MS HYPHENATION TECHNIQUES
Andreas HELFRICH, Wolfram BRÜCHERT, Jörg BETTMER

M03 CHEMOMETRIC STUDY OF SURFACE WATERS FROM RÍA DE AROUSA ESTUARY ACCORDING WITH TRACE METALS CONTENT AFTER SOLID PHASE EXTRACTION - ICP-OES DETERMINATION
Jacobo OTERO-ROMANÍ, Diana BELLO-CURRÁS, Antonio MOREDA-PINEIRO, Adela BERMEJO-BARRERA, Pilar BERMEJO-BARRERA

M04 IMPROVED ANION SPECIES ANALYSIS BY IC-ICP-MS USING ANALYTE-TO-GEO2 SIGNAL RATIOING
Thomas EICKHORST, Andreas SEUBERT

M05 FROM RSD TO RSE: QUADRUPOLES NEAR THE LIMIT
Howard READ, Fadi ABOU SHAKRA, Zenon PALACZ, Simon MEFFAN-MAIN

M06 ROUTINE WATER ANALYSIS, ROUTINELY
Lucy BUNCE, Howard READ, Fadi ABOU SHAKRA, Simon MEFFAN-MAIN

M07 INORGANICS IN ORGANICS: TRACE ELEMENTS IN ORGANIC DAIRY PRODUCE
David MITCHELL, Howard READ, Simon MEFFAN-MAIN, Stephen GUILLFOYLE

Plasma Application and Development *(cont.)*

M08 TRACING THE FOOD CHAIN: TRACE ELEMENTS IN ANIMAL FEEDS
David MITCHELL, Lumir NOVOTNÝ, Howard READ, Simon MEFFAN-MAIN

M09 DETERMINATION OF THE DISTRIBUTION OF ELEMENTS IN SEDIMENTS COLLECTED IN THE LAKE BALATON
Márta WEISZ, Klára POLYÁK, József HLAVAY

M10 DETERMINATION OF SULFUR SPECIES IN FOSSIL FUELS BY SPECIES-SPECIFIC AND SPECIES-UNSPECIFIC ISOTOPE DILUTION GC-ICP-MS
Jens HEILMANN, Klaus G. HEUMANN

M11 CAPILLARY ELECTROSPRAY MASS SPECTROMETRY AND HR-ICP-MS FOR THE DETECTION AND QUANTIFICATION OF BPA FOR BORON NEUTRON CAPTURE THERAPY
Laura Aldave de las HERAS, Luca MENICHETTI, Aurelien PITOIS, Ramon CALOS, Antonella ZAMPOLLI, Lorena GAETANO, Guido LAZZERINI, Salvadori PIERO, Maria BETTI

M12 DETERMINATION OF 210PB AND 210PO IN LARGE SEDIMENT SAMPLES BY HR-ICP-MS AND RADIOMETRIC METHODS
Paula JUNTUNEN, Laura Aldave de las HERAS, Maria BETTI

M13 THE REMOVAL OF MATRIX INTERFERENCE FROM PLANT MATERIAL AND FISH TISSUE (RETICULATED & PRICKLY SCULPIN) BY OCTOPOLE REACTION SYSTEM ICP-MS
Marshall PATTEE, Kent PATTON

M14 INTELLECTUAL PLASMA SPECTROCHEMISTRY
E.D. PRUDNIKOV, Y.S. SHAPKINA, E.E. PRUDNIKOV

M15 DESCRIPTION OF NONINSTRUMENTAL ERRORS IN ANALYSIS
E.D. PRUDNIKOV, Y.S. SHAPKINA, E.E. PRUDNIKOV

M16 ICP-MS TECHNIQUE APPLICATION TO SOLVE OF IAEA TASKS
N.R STANKOV , O.V. EROCHIN, O.N. KOLESNIKOV, V.A. STEBELKOV

M17 RARE EARTH ELEMENT DETERMINATION OF ROCK SAMPLES BY JY ULTIMA 2C-ICP-AES INSTRUMENT
A. BARTHA, M. BALLÓK, É. BERTALAN, G. TYLER

M18 LOW UNCERTAINTY FE ISOTOPE RATIO MEASUREMENTS IN SEAWATER SAMPLES BY ICP-MS AT MEDIUM MASS RESOLUTION
Ivan PETROV, Christophe R. QUÉTEL, Philip D. P. TAYLOR

M19 MEASUREMENTS OF GUNSHOT RESIDUES BY SECTOR FIELD INDUCTIVELY COUPLED PLASMA MASS SPECTROMETRY - FURTHER STUDIES WITH PISTOLS
Jorge E. Souza SARKIS, Osvaldo Negrini NETO, Sonia VIEBIG, Steven F. DURRANT

M20 MULTI-ELEMENTAL ANALYSES OF WINE BY INDUCTIVELY COUPLED PLASMA MASS SPECTROMETRY AND THEIR POSSIBLE USES
Jorge E.S. SARKIS, Elisa Kayo SHIBUYA, Steven F. DURRANT

M21 DETERMINATION OF IR AND PT AT SUB-PPQ LEVEL IN POLAR ICE BY ICP-SFMS WITH PRE-CONCENTRATION AND DESOLVATION SYSTEM
Giulio COZZI, Paolo GABRIELLI, Anita VARGA, Carlo BARBANTE, Claude BOUTRON, Vania GASPARI, Frédéric PLANCHON, Warren CAIRNS, Sungmin HONG, Christophe FERRARI, Paolo CESCON

Plasma Application and Development *(cont.)*

M22 DEVELOPMENT AND APPLICATION OF HEADSPACE SPME-GC/ICP-MS FOR ANALYSIS OF PHOSPHORIC ACID TRIESTERS IN HUMAN PLASMA
Monika SHAH, Juris MEIJA, Baiba CABOVSKA, Joseph A. CARUSO

M23 ROUTINE BIOMEDICAL AND PETROCHEMICAL APPLICATIONS FOR HPLC-ICP-MS & GC-ICP-MS
Martin NASH, Bill SPENCE, Simon NELMS, Phil SHAW

M24 ICP-MS ANALYSIS OF TRACE ELEMENTS IN THE DIFFERENT REGIONS OF HUMAN BRAINS INFECTED WITH ALZHEIMER DISEASE VS. CONTROL BRAIN
Myroslav V. ZORIY, J. Susanne BECKER, Carola PICKHARDT, Michael PRZYBYLSKI, J. Sabine BECKER

M25 DETERMINATION OF RADIUM-226 IN MINERAL WATERS AT ULTRATRACE LEVEL BY SECTOR FIELD INDUCTIVELY COUPLED PLASMA MASS SPECTROMETRY
M.V. ZORIY, Z. VARGA, P. OSTAPCZUK, C. PICKHARDT, R. HILLE, J.S. BECKER

M26 SPECIATION OF ALUMINIUM IN TEA INFUSIONS BY THE USE OF SEC AND FPLC CHROMATOGRAPHY WITH ICP-OES AND ES-MS-MS DETECTION
Blaž KRALJ, Radmila MILACIC, Igor KRIŽAJ, Peter BUKOVEC

M27 ANALYSIS OF ORGANOPHOSPHORUS CHEMICAL WARFARE DEGRADATION PRODUCTS BY HPLC-ICP-MS
Douglas D. RICHARDSON, Baki B.M. SADI, Joseph A. CARUSO

M28 STRATEGIES FOR RAPID, ROUTINE BIOMEDICAL ANALYSIS USING ICP-MS
Simon NELMS

M29 DETERMINATION OF INTERFERENCES IN THE ANALYSIS OF ELEMENTS IN FOODSTUFFS WITH ICP-MS USING COLLISION CELL TECHNOLOGY (CCT)
Jacqueline VAN DER WIELEN, Walther KLERX, Paul in't VELD

M30 INVESTIGATION OF ANALYTICAL CAPABILITY IMPROVEMENT OF ARGON STABILIZED DC ARC BY CURRENT SQUARE MODULATION
Miroslav KUZMANOVIC, Jelena SAVOVIC, Mirjana PAVLOVIC, Milovan STOILJKOVIC, Momir MARINKOVIC

M31 DETERMINATION OF TRACE ELEMENTS IN HUMAN LIVER BIOPSY SAMPLES BY ICP-MS AND TXRF
Imre VARGA, Ágnes SZEBENI, Béla KOVÁCS

M32 SECTOR FIELD ICP-MS FOR THE DIRECT DETERMINATION OF SEMICONDUCTOR RELEVANT INORGANIC CONTAMINANTS AND MATRICES
Meike HAMESTER, Julian WILLS, Joachim HINRICHS

M33 RELATIONSHIPS BETWEEN AERODYNAMIC PARTICLE SIZE AND METAL CONCENTRATIONS IN URBAN DUST SAMPLES USING INDUCTIVELY COUPLED PLASMA MASS SPECTROMETRY, X-RAY FLUORESCENCE, AND A MICRO-ORIFICE UNIFORM DEPOS
Nouri HASSAN, Patricia E. RASMUSSEN, Ewa DABEK-ZLOTORZYNSKA, Heidi CHEN, Monique LANOUETTE, Valbona CELO, David MATHIEU, Renaud VINCENT

Plasma Application and Development *(cont.)*

M34 THE SIMULTANEOUS ANALYSIS OF ARSENIC, SELENIUM AND MERCURY IN FOODSTUFFS USING ICP-OES
Bert VAN DER HOEF, Peter BROWN, David PFEIL

M35 MINERALIZATION OF ANCIENT BONES AND HAIR AND THEIR ANALYSIS BY PLASMA SPECTROMETRY METHODS
Jitka HEGROVÁ, Lubomír PROKEŠ, Viktor KANICKÝ, Vítezslav OTRUBA

M36 INVESTIGATION OF THE SIMILARITY OF GROUND WATER SAMPLES BASED ON MULTIVARIATE STATISTICAL EVALUATION OF TRACE ELEMENT CHEMISTRY DATA OBTAINED BY ICP-TOFMS
László ABRANKÓ, Péter FODOR

M37 ICP-MS DETERMINATION OF EXTREME URANIUM ISOTOPE RATIOS USING A NEW MICROFLOW NEBULIZER SYSTEM
Sergei F. BOULYGA, Patrick KLEMENS, Helmut FEUERBACHER, Klaus G. HEUMANN

Speciation

M38 IDENTIFICATION OF VOLATILE ORGANOTIN COMPOUNDS IN LANDFILL GAS BY GC-ICP-MS
Daniel KREMER, Sanjay MITRA, Jörg FELDMANN

M39 SIMULTANEOUS DETERMINATION OF TRIMETHYLEAD, MONOMETHYLMERCURY AND BUTYLTINS BY SPECIES-SPECIFIC ISOTOPE DILUTION GC-ICP-MS IN BIOLOGICAL SAMPLES
Nataliya POPERECHNA, Klaus G. HEUMANN

M40 USE OF LANTHANUM HYDROXIDE AS A TRAPPING AGENT IN THE As AND Sb DETERMINATION BY HG-ICPOES
Elena PEÑA-VAZQUEZ, Adela BERMEJO-BARRERA, Pilar BERMEJO-BARRERA

M41 SPECIATION OF EUROPIUM AND GADOLINIUM COMPLEXES WITH HUMIC ACID BY CE-ICP-MS
Karsten NOWOTKA, Ralf KAUTENBURGER, Horst P. BECK

M42 ACCUMULATION AND SPECIATION STUDIES OF BASED-Pt ANTITUMORAL DRUGS IN RAT ORGANS
D. ESTEBAN, M. GÓMEZ, J.M. VERDAGUER, R. RAMÍREZ, M.A. PALACIOS

M43 IODINE SPECIATION STUDIES IN COMMERCIALLY AVAILABLE SEAWEED BY COUPLING DIFFERENT CHROMATOGRAPHIC TECHNIQUES WITH UV AND ICP-MS DETECTION
Monika SHAH, Rodolfo G. WUILLOUD, Sasi S. KANNAMKUMARATH, Joseph A. CARUSO

M44 CHEMICAL VAPOUR GENERATION USING HALIDES OF Sb(III)/Sb(V), AND Ti (IV)
A. LOPEZ-MOLINERO, D. SIPIERA, P. CALATAYUD, R. FALCON, D. LIÑAN, J.R.CASTILLO

M45 SEASONAL VARIATIONS IN SEAWATER TRACE METAL FRACTIONATION AND COLLOIDAL SIZE DISTRIBUTION STUDIED BY FLFFF-HR ICPMS
Björn STOLPE, Martin HASSELLÖV

Speciation *(cont.)*

M46 MULTIELEMENTAL CHARACTERIZATION OF COMPOST LEACHATES BY SEC AND FIFFF COUPLED TO ICP-MS
E. BOLEA, M. BOUBY, M.P. GORRIZ, F. LABORDA, J.R. CASTILLO, H. GECKEIS

M47 DETERMINATION OF SULPHUR COMPOUNDS IN LIQUID FUELS BY GC-ICP-MS
Alejandro SARMIENTO-GONZÁLEZ, Juan Manuel MARCHANTE-GAYÓN, José Ignacio GARCÍA-ALONSO

M48 VAPOUR GENERATION – INDUCTIVELY COUPLED PLASMA OPTICAL EMISSION SPECTROMETRY IN DETERMINATION OF FREE AND TOTAL SULPHUR DIOXIDE IN WINE
Jirí CMELÍK, Jirí MACHÁT, Eva NIEDOBOVÁ, Vítezslav OTRUBA, Viktor KANICKÝ

M49 FRACTIONATION OF IODINE IN IODINE-ENRICHED ALGAE CHLORELLA
Jirí MACHÁT, Iveta HAVELKOVÁ, Eva NIEDOBOVÁ, Jirí DOUCHA, Viktor KANICKÝ

M50 IN VIVO STUDIES OF THE DISTRIBUTION AND DEGRADATION OF BUTYLTIN COMPOUNDS USING A “TRIPLE SPIKE” ISOTOPE DILUTION GC-ICP-MS APPROACH
Pablo RODRÍGUEZ-GONZÁLEZ, Andrés RODRÍGUEZ-CEA, J. Ignacio García ALONSO, Alfredo SANZ-MEDEL

M51 SPECIATION OF CANCEROSTATIC PLATINUM COMPOUNDS IN HOSPITAL WASTEWATER FOR DEVELOPMENT OF ELIMINATION PROCEDURES
Katharina LENZ, Stephan HANN, Gunda KOELLENSBERGER, Zsolt STEFANKA, Gerhard STINGEDER, Norbert WEISSENBACHER, Susanne N. MAHNIK, Maria FUERHACKER

M52 NICKEL SPECIES ANALYSIS OF HUMAN COLONIC TISSUE USING LIQUID CHROMATOGRAPHY, GEL-ELECTROPHORESIS AND MASS-SPECTROMETRY
Tina KNISPEL, M. KÜHBACHER, Evelin DENKHAUS, Andreas PRANGE, A. KYRIAKOPOULOS, D. BEHNE

M53 ON-SITE FRACTIONATION OF TRACE ELEMENTS IN KARSTIC GROUNDWATER BY MEMBRANE FILTRATION AND CHELATING EXCHANGE
Katalin ZIH-PERÉNYI, Alexandra LÁSZTITY, Éva SUGÁR

M54 COUPLING OF A MICRO-FLOW IONIC CHROMATOGRAPHY WITH A HIGH RESOLUTION SECTOR FIELD ICPMS
Valerie GEERTSEN, Frederic CHARTIER

M55 LEAD SPECIATION IN ARABIDPSIS THALIANA BY HYPHENATED TECHNIQUES
Rafa RUZIK, Ela LIPIEC, Monika CIURZYÑSKA, Halina GAWROÑSKA, Kasia POLEA-PAWLAK

M56 DETERMINATION OF METHYLMERCURY IN FISH SAMPLES USING ISOTOPE DILUTION GAS CHROMATOGRAPHY WITH MASS SPECTROMETRIC DETECTION: COMPARISON OF EI GC-MS AND ICP-MS
Giuseppe CENTINEO, Elisa BLANCO GONZÁLEZ, J. Ignacio GARCÍA ALONSO, Alfredo SANZ-MEDEL

Speciation *(cont.)*

M57 VALIDATION OF TOTAL ORGANIC CARBON (TOC) ANALYSIS WITH ICPMS
Björn STOLPE, Tobias LARSSON, Martin HASSELLÖV, Jonas GUSTAVSSON, Iréne WÅHLSTRÖM, David TURNER

M58 SPECIES-SPECIFIC ISOTOPE DILUTION ANALYSIS FOR DETERMINATION OF IONIC ORGANOLEAD COMPOUNDS WITH GAS CHROMATOGRAPHY INDUCTIVELY COUPLED PLASMA MASS SPECTROMETRY
Tomoki YABUTANI, Junko MOTONAKA, Kazumi INAGAKI, Akiko TAKATSU, Koichi CHIBA

M59 SPECIATION ANALYSIS OF INORGANIC AND ORGANIC TIN USING BAKER'S YEAST AND INDUCTIVELY COUPLED PLASMA OPTICAL EMISSION SPECTROMETRY DETERMINATION
Rogério CALDORIN , Amauri A. MENEGÁRIO

M60 THE DETERMINATION OF METAL CONTENT IN HERPES SIMPLEX VIRUS WITH INDUCTIVELY COUPLED PLASMA MASS SPECTROMETRY
Katie DENICOLA, Richard L. THOMPSON, Douglas D. RICHARDSON, Joseph A. CARUSO

M61 DEVELOPMENT OF A HIGH-THROUGHPUT METHOD FOR LEAD SPECIATION IN NATURAL SOIL AND GROUNDWATER SAMPLES BY GC-ICP-MS
John J. KOZLOWSKI, Jane B. RAMSEY, Raimund WAHLEN

M62 HPLC-ICP-MS AND HPLC-ESI-Q-TOF STRATEGIES FOR THE ANALYSIS AND CHARACTERIZATION OF IODINE SPECIES IN MILK
J. L. GÓMEZ-ARIZA, R. IZARRA

M63 HIGH-PRESSURE ELECTROSPRAY IONIZATION SOURCE (HPESI) FOR ELEMENTAL SPECIATION
Steven J. RAY, Gary M. HIEFTJE

M64 RAPID SIMULTANEOUS SPECIATION OF MULTIPLE METALS USING ION CHROMATOGRAPHY COUPLED TO ICP-MS
Steve WILBUR, Tetsushi SAKAI, Ed McCURDY

M65 ANALYSIS OF PHOSPHORUS CONTAINING MICRO POLLUTANTS IN AQUATIC SAMPLES BY LC-ICP-SFMS AND LC-ICP-DRCMS
Zs. STEFÁNKA, S. HANN, M. SULYOK, G. STINGEDER, C. LESUEUR, Maria FÜRHACKER, G. KOELLENSPERGER

M66 METHOD VALIDATION FOR SPECIATION ANALYSIS
Erwin ROSENBERG, Eva FERNÁNDEZ-DIEZ

M67 CERTIFIED REFERENCE MATERIALS FOR SPECIATION ANALYSIS
Eva FERNÁNDEZ-DIEZ, Erwin ROSENBERG

Instrumentation Development

M68 SOLID STATE DETECTOR OR CLASSICAL HIGH RESOLUTION ICP-OES?
Geoff TYLER, Agnès COSNIER, Sébastien VELASQUEZ, Nathalie LE CORRE

M69 IMPROVED SENSITIVITY OF THE NEW SHIP TORCH FOR ICP-OES
Carsten ENGELHARD, Stephan EVERS, Wolfgang BUSCHER

Instrumentation Development *(cont.)*

M70 PERFORMANCE OF A TUNABLE CONCENTRIC PFA NEBULIZER FOR ICP-MS SPECTROMETRY
Fred SMITH, Joe BRADY, Sabine MANN

M71 THE STUDY OF MAGNETICALY TAILORED DIRECT CURRENT ARC PLASMA WITH AEROSOL SUPPLY FOR ANALYTICAL APPLICATION
M. Milovan STOILJKOVIC, Mirjana PAVLOVIC, Jelena SAVOVIC, Miroslav KUZMANOVIC, Momir MARINKOVIC

M72 TRACE IDMS BY MULTIPLE ION COUNTING AND MC-ICPMS
Peter EVANS, Ruth HEARN, Lorna SIMPSON

M73 COUPLING OF LIQUID CHROMATOGRAPHY (LC) TO A 90 DEGREE ION OPTICS ICP-MS (LC-ICP-MS)
Michael LEIST

M74 CHARACTERIZATION OF A VERY LOW POWER ARGON CAPACITIVELY COUPLED PLASMA
Sorin Dan ANGHEL, Alpar SIMON, Tiberiu FRENTIU

M75 DIRECT INJECTION MULTI-GAS INDUCTIVELY COUPLED PLASMA SOURCE FOR MS AND AES
Hidekazu MIYAHARA, Takayuki DOI, Yoichi MIZUSAWA, Eiki HOTTA, Akitoshi OKINO

M76 ADAPTION OF THE SHIP-OES-TORCH TO A CONVENTIONAL ICP-MS
Andy SCHEFFER, Wolfgang BUSCHER, Rolf BRANDT, Norbert JAKUBOWSKI

M77 CHARACTERIZATION OF A NEW ORTHOGONAL ICP-TOFMS SYSTEM
Nicolas H. BINGS, Jochen SKOLE

M78 DEVELOPMENT AND APPLICATIONS OF MULTIPLE ION COUNTING – ICPMS AND –TIMS
Johannes B. SCHWIETERS, Claudia BOUMAN, Michael WIESER

M79 THE ONLINE COUPLING OF GEL ELECTROPHORESIS WITH ICP-MS - METHOD DEVELOPMENT AND FIRST APPLICATIONS
Wolfram BRÜCHERT, Jörg BETTMER

KÖZGÁZ CLUB

20.30 Young Scientists' Evening

Tuesday, 1 February 2005

ROOM A

08.30 – 09.00 **Speciation**
Chair: Ramon BARNES

Plenary ELEMENTAL SPECIATION: FROM SMALL ATOMS TO BIG MOLECULES
Joseph A. CARUSO

09.00 – 10.00 **Speciation**
Chair: Ramon BARNES

09.00 – 09.20 THE USE AND MISUSE OF HPLC/ICPMS IN SPECIATION ANALYSIS
Invited *Kevin A. FRANCESCONI*

09.20 – 09.40 SPECIATION OF SELENIUM IN YEAST
Invited *Shona MCSHEEHY, Lu YANG, Ralph STURGEON, Zoltan MESTER*

09.40 – 10.00 ISOTOPE DILUTION ANALYSIS FOR TRACE ELEMENT SPECIATION
Invited *J. Ignacio GARCIA ALONSO*

10.00 – 10.20 *Coffee break*

ROOM A

10.20 – 12.00 **Quality Control and Quality Management in EU**
Chair: József HLAVAY

10.20 – 10.40 INCREASING THE QUALITY OF ENVIRONMENTAL MEASUREMENTS: THE VIRTUAL INSTITUTE FOR REFERENCE MATERIALS (VIRM ASBL).
Invited *Roberto MORABITO*

10.40 – 11.00 ENVIRONMENTAL ANALYSIS BY ICP-AES / ICP-MS: OBTAINING MORE INFORMATION FROM THE SAME DATA
Invited *Steve HILL*

11.00 – 11.20 IMEP - PLASMA SPECTROMETRY BASED MEASUREMENT CAPABILITIES DEMONSTRATED ON ENVIRONMENTAL, CLINICAL AND FOOD SAMPLES ACROSS THE INTERNATIONAL MEASUREMENT INFRASTRUCTURE
Y. AREGBE, C. R. QUÉTEL, L. VAN NEVEL, P.D.P. TAYLOR

11.20 – 11.40 THE 1ST SWIFT-WFD PROFICIENCY TESTING IN SUPPORT OF THE IMPLEMENTATION OF THE WATER FRAMEWORK DIRECTIVE IN THE EUROPEAN LABORATORIES
Ildiko IPOLYI, Claudia BRUNORI, Roberto MORABITO

11.40 – 12.00 METHYLMERCURY IN TUNA: DEMONSTRATING MEASUREMENT CAPABILITIES AND EVALUATING COMPARABILITY OF RESULTS WORLDWIDE FROM THE CCQM P-39 COMPARISON
C. R. QUÉTEL, J. SNELL, Y. AREGBE

ROOM B

10.20 – 12.00 **Solid Sampling**
Chair: Klaus HEUMANN

10.20 – 10.40 ***Invited*** MULTIELEMENT MAPPING OF MICROTOMED TISSUE VIA LASER ABLATION ICP-MS
C.W. MCLEOD, A.G. COX, R. HUTCHINSON, J. DENTON

10.40 – 11.00 SOLID SAMPLING-ELECTROTHERMAL VAPORIZATION-INDUCTIVELY COUPLED PLASMA MASS SPECTROMETRY FOR THE DIRECT DETERMINATION OF TRACES OF IODINE
M. RESANO, E. GARCÍA-RUIZ, L. MOENS, F. VANHAECKE

11.00 – 11.20 COMPARATIVE ANALYSIS OF PROTEIN BOUND METAL(LOID)S USING NATIVE AND SDS GE-LA-ICP-MS AND SEC- ICP-MS
Roland DIAZ-BONE, Joachim FELIX, Sebastian MÜLLER, Frank HASENAECKER, Alfred V. HIRNER

11.20 – 11.40 HIGH-PRECISION IN-SITU SULPHUR ISOTOPE MEASUREMENTS BY LASER ABLATION MC ICP-MS
Jan KOSLER, Paul R.D. MASON, Paul J. SYLVESTER

11.40 – 12.00 ON THE PRODUCTION OF LASER GENERATED AEROSOL PARTICLES
Roland HERGENRÖDER

ROOM C

10.20 – 12.00 **Instrumentation, Sample Introduction**
Chair: Béla KOVÁCS

10.20 – 10.40 FRACTIONATION OF PRIMARY AEROSOLS PRODUCED BY NEAR-INFRARED FEMTOSECOND LASER ABLATION OF SILICATE GLASSES
Joachim KOCH, Helmut LINDNER, Alex VON BOHLEN, Kay NIEMAX

10.40 – 11.00 DEVELOPMENT AND CHARACTERIZATION OF BATTERY-OPERATED MICRO PLASMA DEVICES (MPDs) BY ATOMIC EMISSION SPECTROMETRY AND MASS SPECTROMETRY
Andrea SMITH, Kara JOHNSON, Vassili KARANASSIOS

11.00 – 11.20 MICRO-COLUMN OFF-LINE MATRIX SEPARATION FOR PGE DETERMINATION IN ENVIRONMENTAL SAMPLES
Anita VARGA, Warren CAIRNS, Andreas LIMBECK, Gabriele CAPODAGLIO, Carlo BARBANTE

11.20 – 11.40 INVESTIGATION OF A MEDIUM POWER RADIOFREQUENCY CAPACITIVELY COUPLED PLASMA AND IT'S APPLICATION TO HIGH-TEMPERATURE SUPERCONDUCTOR ANALYSIS VIA ATOMIC EMISSION SPECTROMETRY
Alpar SIMON, Tiberiu FRENTIU, Sorin Dan ANGHEL, Simion SIMON

11.40 – 12.00 AN INDUCTIVELY-COUPLED PLASMA/ELECTROSPRAY IONIZATION DUAL-SOURCE TIME-OF-FLIGHT MASS ANALYZER FOR COMPREHENSIVE ELEMENTAL SPECIATION
Steven J. RAY, Duane A. ROGERS, Gary M. HIEFTJE

12.00 – 14.00 *Lunch break*

ROOM A

14.00 – 15.00 **Speciation**
Chair: Ryszard LOBINSKY

14.00 – 14.30 ***Plenary*** SPECIATION ANALYSIS: ERRORS, SUCCESS, EVOLUTIONS, MATURITY AND TRENDS OR "DO WE STILL NEED A PLASMA?"
Olivier F.X. DONARD

14.30 – 15.00 ***Invited*** NEW HORIZON IN BRAIN RESEARCH USING LA-ICP-MS: PROTEOM ANALYSIS BY COMBINATION WITH MALDI-FTICR-MS AND IMAGING OF BRAIN TISSUES
J. Sabine BECKER, Miroslav ZORIY, J. Susanne BECKER, Carola PICKHARDT, Michael PRZYBYLSKI, Nicola PALOMERO-GALLAGHER, Karl ZILLES

15.00 – 15.30 *Coffee break*

ROOM A

15.30 – 16.50 **Speciation *(cont.)***
Chair: Ryszard LOBINSKY

15.30 – 15.50 ***Invited*** SPECIES-SPECIFIC AND SPECIES-UNSPECIFIC MULTI-SPECIES ISOTOPE DILUTION ANALYSIS OF ORGANO-ELEMENTAL COMPOUNDS BY ICP-MS
K.G. HEUMANN, J. HEILMANN, N. POPERECHNA, A. SCHWARZ, J. WINTERLIK

15.50 – 16.10 INITIAL STUDIES ON VANADIUM METABOLISM IN MAMMALIANS BY MASS SPECTROMETRIC TECHNIQUES
Maria MONTES-BAYÓN, Kelly das GRAÇAS FERNANDES, Jesus ALVAREZ-PIÑERA, Alfredo SANZ-MEDEL

16.10 – 16.30 GEL-ELECTROPHORESIS-ICP-OES HYPHENATED SYSTEM FOR SEPARATION OF CHROMIUM(III)-COMPLEXES
József PROKISCH, Béla KOVÁCS, Éva SZÉLES, Ákos ZUBOR, Zoltán GYORI

16.30 – 16.50 THE DIRECT DETERMINATION OF ARSENOLIPIDS IN BIOLOCIGAL SAMPLES WITH HPLC-ICPMS
Ernst SCHMEISSER, Walter GOESSLER, Kevin A. FRANCESCONI

ROOM B

15.30 – 16.50 **Quality Control**
Chair: Roberto MORABITO

15.30 – 15.50 THE USE OF SPECTRUM, A STELLAR SYNTHESIS CODE, FOR LABORATORY CARBON PLASMAS ELICITED BY A ND: YAG LASER
Laszlo NEMES, Richard O. GRAY

15.50 – 16.10 SI-TRACEABILITY AND UNCERTAINTY ESTIMATION AS TOOLS TOWARDS VALIDATION OF SPECIATION MEASUREMENTS
J. SNELL, C. R. QUÉTE

16.10 – 16.30 FACTORS TO BE CONSIDERED IN THE PREPARATION OF CERTIFIED REFERENCE MATERIALS, AND THE REPORTING OF CERTIFIED VALUES, FOR ICPMS ANALYSIS
Nimi KOCHERLAKOTA, Ralph H. OBENAUF

16.30 – 16.50 DETERMINATION OF SULFUR IN DIESEL FUEL BY ISOTOPE DILUTION ICP-MS: CONTRIBUTION TO THE KEY-COMPARISON 35 AND PILOT STUDY 26.1 OF THE COMITÉ CONSULTATIF POUR LA QUANTITÉ DE MATIÈRE
Ivan TREŠL, Christophe R. QUÉTEL

ROOM C

15.30 – 16.50 New Instrumentation
Chair: József PROKISCH

15.30 – 15.50 INVESTIGATIONS ON THE ELEMENT DEPENDENCY OF SPUTTERING PROCESS IN THE ELECTROLYTE CATHODE ATMOSPHERIC GLOW DISCHARGE (ELCAD)
T. CSERFALVI, P. MEZEI

15.50 – 16.10 GDOES ANALYSIS FROM THICK TO THIN LAYERS
Roland DORKA, Ruediger MEIHSNER, Michael ANALYTIS

16.10 – 16.30 INCREASING THE LINEAR DYNAMIC RANGE OF SECTOR FIELD ICP-MS
Julian WILLS, Lothar ROTTMANN, Meike HAMESTER

16.30 – 16.50 A NEW GLOW DISCHARGE SECTOR FIELD MASS SPECTROMETER FOR THE ANALYSIS OF HIGH PURITY METALS
Lothar ROTTMANN, Joachim HINRICHS, Wolfgang SCHOETTKER

LOUNGE

17.00 – 19.00 Poster Session 2

Plasma Application and Development

T01 SIMULTANEOUS DETERMINATION OF THE METALS POTENTIALLY RELEASED FROM METALLIC PROSTHESIS IN BIOLOGICAL FLUIDS BY HR-ICP-MS
Alejandro SARMIENTO-GONZÁLEZ, Juan Manuel MARCHANTE-GAYÓN, Alfredo SANZ-MEDEL

T02 EXPERIMENTAL INVESTIGATIONS ON ICP-INDUCED VAPORIZATION OF SOLID PARTICULATE
D. BLEINER, R. FIGI

T03 DIETARY EXPOSURE ESTIMATES OF SEVERAL ELEMENTS FROM THE 1ST FRENCH TOTAL DIET STUDY
Thierry GUÉRIN, Laurent NOËL, Jean-Charles LEBLANC, Gloria CALAMASSI-TRAN, Jean-Luc VOLATIER, Philippe VERGER

T04 REACTIVE CHEMISTRY OF URANIUM ION WITH AMMONIA IN THE BANDPASS REACTION CELL
Vladimir VAIS, Chunsheng LI, Jack CORNETT

T05 IDENTIFICATION OF CARBON-BASED SPECTRAL INTERFERENCES ON PROMINENT EMISSION LINES IN VACUUM ULTRAVIOLET REGION
Eva NIEDOBOVÁ, Jirí MACHÁT, Viktor KANICKÝ, Vítezslav OTRUBA

T06 ANALYSIS OF Pt, Pd AND Rh IN BIOLOGICAL SAMPLES VIA MATRIX SEPARATION AND ON-LINE PRECONCENTRATION COUPLED TO ICP-SFMS
Elisabeth RUDOLPH, Stephan HANN, Andreas LIMBECK, Gerhard STINGEDER

T07 SIMULTANEOUS DETERMINATION OF ARSENIC, MERCURY AND SELENIUM IN FOODSTUFFS BY HG-ICP-OES
Marco GROTTI, Cristina LAGOMARSINO, Francesco SOGGIA, Emanuele MAGI, Roberto FRACHE

Plasma Application and Development *(cont.)*

T08 A COMPARISON OF THE PERFORMANCE OF KINETIC ENERGY DISCRIMINATION AND REACTIVE INTERFERENCE REMOVAL FOR THE DETERMINATION OF TRACE AND ULTRATRACE ELEMENTS IN SEAWATER BY COLLISION/REACTION CELL ICP-MS
Bill SPENCE, Simon NELMS, Martin NASH, Phil SHAW

T09 THE USE OF COLLISION CELL ICP-MS FOR THE DETERMINATION OF A SUITE OF ELEMENTS IN CLINICAL FLUIDS
Ruth HEAN, Raimund WAHLEN, Linda EVANS

T10 MEASUREMENT OF CELLULAR ASSOCIATION OF NICKEL AND CHROMIUM IN KERATINOCYTES USING ICP-MS
J. MORTON, A. JONES, C. BALAFA, S. MACNEIL, D. GAWKRODGER, G. EVANS

T11 COPPER, CHROMIUM AND ARSENIC LEVELS IN URINE SAMPLES FROM TIMBER TREATMENT WORKERS
J. MORTON, B. SMITH, R. HANDLEY, N. WARREN, J.COCKER

T12 ANALYSIS OF STABLE ISOTOPES AND LONG-LIVED RADIOACTIVE ISOTOPES IN CONCRETE SAMPLES FROM A NUCLEAR REACTOR
Michael METZLER, Lars FRØSIG ØSTERGAARD

T13 DETERMINATION OF REFERENCE VALUES OF BA, CS, SB AND W IN URINE BY MEANS OF HR AND DRC ICP-MS INSTRUMENTATION. COMPARISON OF ANALYTICAL PERFORMANCES AND MEASUREMENT UNCERTAINTIES
Sandro SPEZIA, Giovanni FORTE, Beatrice BOCCA, Anna GATTI, Giovanna MINCIONE, Anna RONCHI, Paolo BAVAZZANO, Alessandro ALIMONTI, Claudio MINOIA

T14 THE STUDY OF HEAVY METAL ENVIRONMENTAL POLLUTION USING THE INDUCTIVELY COUPLED PLASMA-ATOMIC EMISSION SPECTROMETRY METHOD
Vasile VIMAN, Mariana DOBRA

T15 IS ICP-MS AN OPTION FOR QUALITY CHECKS IN FOOD PRODUCTS?
Daniel HAMMER, Bee Leng TEO, Kwoh Wah MAK, Ching Tung YONG

T16 DUTCH STUDY ABOUT “DUPLICATE 24 h - DIET” IN 2004 – ANALYTICAL STUDY ABOUT METALS IN DAILY FOOD –
Petra KRYSTEK, Wilbert VAN DEN BELD, Hans VAN LOON, Rob RITSEMA

T17 RAPID AND PRECISE PB ISOTOPIC ANALYSIS WITH MULTIPLE COLLECTOR ICP-MS AND ITS APPLICATIONS TO GSJ REFERENCE ROCKS AND ARCHEOLOGICAL BRONZES
Masaharu TANIMIZU, Tsuyoshi ISHIKAWA

T18 PLUTONIUM ATOM RATIOS IN SEDIMENTS FROM BALLSTON LAKE, NEW YORK: CONTINENTAL TRANSPORT OF 1950’s NEVADA TEST SITE DEBRIS?
Paul T. GREMILLION, Jamie L. TONEY, Michael E. KETTERER, Donald T. RODBELL

T19 DETERMINATION OF LOW LEVELS OF U AND TH ISOTOPES IN HUMAN URINE
K. BENKHEDDA, V.N. EPOV, R.D. EVANS

Plasma Application and Development *(cont.)*

T20 EVALUATION OF STRONTIUM ISOTOPE ABUNDANCE RATIOS AND STRONTIUM AMOUNT CONTENT BY MC-ICP-MS IN CIDERS FOR FOOD AUTHENTICATION
Silvia GARCÍA RUIZ, Giuseppino FORTUNATO, Samuel WUNDERLI, J. Ignacio GARCÍA ALONSO, Alfredo SANZ-MEDEL

T21 NUCLEIC ACID DETERMINATIONS IN FLOWING STREAMS VIA CARBON AND PHOSPHOROUS ATOMIC EMISSION
Beatriz FERNÁNDEZ, Tim M.BREWER, Fuxia JIN, R. Kenneth MARCUS

T22 USE OF N2-AR MIXED GAS PLASMA FOR THE DETERMINATION OF AS AND SE IN SEDIMENT AND BIOLOGICAL SAMPLES BY ICP-MS WITH A COLLISION/REACTION CELL
Kazumi INAGAKI, Akiko TAKATSU, Masaki OHATA, Tomohiro NARUKAWA, Sakae EYAMA, Atsuko NAKAMA, Koichi CHIBA, Kensaku OKAMOTO

T23 SIMPLE ELIMINATION OF MEMORY EFFECT ON THE DETERMINATION OF TOTAL MERCURY IN SEDIMENT AND MARINE BIOLOGICAL SAMPLES BY ISOTOPE DILUTION ICP-MS
Kazumi INAGAKI, Akiko TAKATSU, Takayoshi KUROIWA, Atsuko NAKAMA, Sakae EYAMA, Koichi CHIBA, Kensaku OKAMOTO

T24 IMPROVEMENT OF THE ABUNDANCE SENSITIVITY OF A DOUBLE-FOCUSING SECTOR-FIELD ICP-MS TO MEASURE LOW 236U/238U ISOTOPIC RATIOS
Fabien POINTURIER, Nicolas BAGLAN, Philippe HEMET, Stéphane BAUDE

T25 POSSIBILITY OF THE VIRTUAL STANDARDS APPLICATION IN ATOMIC-EMISSION SPECTRAL ANALYSIS
A. A. KUZNETSOV

T26 DIRECT INTRODUCTION OF ORGANIC MODIFIERS TO ICPMS: ENHANCEMENT OF DETECTION LIMIT FOR SELENIUM IN AQUEOUS SOLUTIONS
Miroslav KOVACEVIC, Walter GOESSLER

T27 DETERMINATION OF 239+240Pu ACTIVITIES AND Pu ATOM RATIOS IN SOILS AND SEDIMENTS USING SECTOR ICPMS AND A RAPID FUSION TOTAL DISSOLUTION PROCEDURE
Michael E. KETTERER, Celeste M. BILES, Gary D. MACLELLAN, Brighid S. CORCORAN

T28 DETERMINATION OF TRACE ELEMENTS IN COW MILK BY Q-ICP-MS
Eva SUGAR, Barnabas SAS, Gyula ZARAY

T29 DEVELOPPEMEONT OF A ROUINE TO ANALYZE IMPURITIES IN ALKALINE MATERIALS
Marie-Helene POINSO, Dominique LACROIX, Hervé CHOLLET

T30 DETERMINATION OF LITHIUM IN BRAIN SAMPLES
Csilla BÉLAVÁRI, Erzsébet ANDRÁSI, Noémi PÁLI, Roger COTTIER, Alain CHEVALLIER, György KOCH, Thierry LAURIOUX, Roger JEANNOT, Jean-Philippe GHESTEM, Thibault CONTE

T31 APPLICATIONS USING A NEW CCD SIMULTANEOUS ICP SPECTROMETER
Geoff TYLER, Agnès COSNIER, Sébastien VELASQUEZ, Cendrine DUBUISSON

Plasma Application and Development *(cont.)*

T32 CHEMICAL ANALYSIS OF ARCHAEOLOGICAL POTTERY: PREPARATION OF THE LABORATORY STANDARD
Milko NOVIC, Borut KRIŽ, Detlef GÜNTHER

T33 MEASURED PERFORMANCE OF SPETEC LAMINAR FLOW-BOX SYSTEMS
Christian GRÜNER, Friedhelm RICKERT, Knut OHLS

T34 EFFECT OF TEMPERATURE AND PRECIPITATION RATE ON THE ISOTOPIC COMPOSITION OF LITHIUM IN MARINE CARBONATE
Jitka LIBERTINOVA, Jan KOSLER

T35 SIMULTANEOUS ANALYSIS OF CADMIUM, LEAD, MERCURY AND ARSENIC IN FOODSTUFFS BY ICP-MS AFTER CLOSED VESSEL MICROWAVE DIGESTION: METHOD VALIDATION
L. NOËL, V. DUFAILLY, N. LEMAHIEU, C. VASTEL, T. GUÉRIN

T36 DETERMINATION OF 135CS AND 137CS IN SOIL AND SEDIMENT BY DYNAMIC REACTION CELL ICP-MS
Vivien TAYLOR, Vladimir EPOV, Douglas EVANS, Jack CORNETT

T37 NEW INTERFACE DESIGN FOR COUPLING CAPILLARY-LC AND COLLISION-CELL ICP-MS AND ITS COMPLEMENTARY APPLICATION FOR THE DETECTION OF PHOSPHORYLATED PROTEINS
Daniel PRÖFROCK, Peter LEONHARD, Rudi GRIMM, Andreas PRANGE

T38 EFFECT OF DIFFERENT CHEMICALS ON THE SIGNAL OF DIFFERENT ELEMENTS USING ICP-MS INSTRUMENT
Béla KOVÁCS, Éva SZÉLES, József PROKISCH, Zoltán GYORI

T39 TRACE ELEMENT ANALYSIS OF BLACK AND GREEN TEA BY INDUCTIVELY COUPLED PLASMA MASS SPECTROMETRY (ICP-MS)
Steven F. DURRANT, Andrea L. MARCILLA, Neil I. WARD

As-Hg- Cr Speciation

T40 INVESTIGATION OF THE STABILITY OF AN ARSENOSUGAR IN MOUSE CECUM SAMPLES USING IC-ICP-MS AND LC-ESI-MS/MS DETECTION
Sean CONKLIN, Michael FRICKE, Amanda ACKERMAN, Patricia CREED, John CREED, Michael KOHAN, Karen HERBIN-DAVIS, David THOMAS

T41 A NEW THIOARSENOSUGAR IDENTIFIED WITH HPLC-ICPMS AS A SIGNIFICANT COMPOUND IN THE KIDNEY OF THE CLAM TRIDACNA DERASA
Markus KAHN, Reingard RAML, Walter GOESSLER, Ernst SCHMEISSER, Kevin A. FRANCESCONI

T42 APPLICATION OF HPLC-ICPMS TO METABOLIC STUDIES OF AN ARSENOSUGAR IN HUMANS
Reingard RAML, Walter GOESSLER, Kevin A. FRANCESCONI

T43 COMBINATION OF HPLC-ES-MS/MS AND HPLC-ICP-MS FOR THE IDENTIFICATION AND QUANTIFICATION OF MORE THAN 20 ORGANOARSENIC SPECIES IN STANDARD SOLUTIONS AND EXTRACTS OF MARINE REFERENCE MATERIALS
Volker NISCHWITZ, Katerina KANAKI, Spiros A. PERGANTIS

T44 HIGH PERFORMANCE LIQUID CHROMATOGRAPHY WITH INDUCTIVELY COUPLED PLASMA MASS SPECTROMETRY DETECTION FOR THE DETERMINATION OF NOVEL THIO ARSENOSUGARS
K. KANAKI, V. NISCHWITZ, S.A. PERGANTIS

As-Hg- Cr Speciation *(cont.)*

T45 COMPLEMENTARY HPLC-ICP-MS AND ESI-Q-TOF FOR THE ELUCIDATION OF As AND Cd METABOLITES PRODUCED IN EXPOSED PLANT TISSUES
Ana PEREIRA NAVAZA, María MONTES-BAYÓN, Alfredo SANZ-MEDEL

T46 THE DETERMINATION OF FIVE ARSENIC SPECIES IN URINE SAMPLES FROM OCCUPATIONALLY EXPOSED AND UNEXPOSED PERSONS IN THE UK BY LC-ICP-MS
J. MORTON

T47 IDENTIFICATION OF DIMETHYLTHIOARSINIC ACID BY IC-ICP-MS AND IC-ESI-MS/MS IN RICE SAMPLES
Michael FRICKE, Amanda ACKERMAN, Patricia CREED, Carol SCHWEGEL, John CREED

T48 DETERMINATION OF THE HEXAFLUOROARSENATE ION IN INDUSTRIAL PROCESS WATERS
Dirk WALLSCHLÄGER, Jacqueline LONDON

T49 ARSENIC SPECIATIONS OF MARINE SAMPLES BY HPLC-ICPMS
Shizuko HIRATA, Hideki TOSHIMITSU

T50 ARSENIC SPECIATION IN CUCUMBER PLANTS BY HPLC-ICP-MS
Victor G. MIHUCZ, Eniko TATÁR, István VIRÁG, Gyula ZÁRAY, Edit CSEH, Ferenc FODOR

T51 DETERMINATION OF TOTAL MERCURY AND MONOMETHYLMERCURY IN BIOLOGICAL TISSUE USING DIFFERENT ANALYTICAL TECHNIQUES: RESULTS FROM THE MERCYMS INTERLABORATORY COMPARATIVE STUDY
Nives OGRINC, Martina LOGAR, Mathilde MONPERRUS, Emmanuel TESSIER, David AMOUROUX, Milena HORVAT, Olivier DONARD

T52 DEVELOPMENT OF EXTRACTION PROCEDURES FOR THE DETERMINATION OF ARSENIC IN TWO IN-HOUSE PEAT REFERENCE MATERIALS
Jutta FRANK, Michael KRACHLER, William SHOTYK

T53 CERTIFICATION MEASUREMENT OF THE CADMIUM, MERCURY AND LEAD MASS FRACTIONS IN SEWAGE SLUDGE USING ISOTOPE DILUTION INDUCTIVELY COUPLED PLASMA MASS SPECTROMETRY
Emilia VASSILEVA, Christophe R. QUÉTEL

T54 MULTI-ELEMENTAL SPECIATION IN ENVIRONMENTAL WATERS
Kenneth R. NEUBAUER, Wilhad M. REUTER, Pamela A. PERRONE, Steven A. BERES

T55 DETERMINATION OF HEXAVALENT CHROMIUM IN CEMENT BY THE USE OF HPLC-ICP-MS, FPLC-ETAAS, SPECTROPHOTOMETRY AND SELECTIVE EXTRACTION TECHNIQUES
Janez ŠCANCAR, Radmila MILACIC, Fabienne SÉBY, Olivier F.X. DONARD

T56 DETERMINATION OF Cr(VI) IN COMPOST BY ION CHROMATOGRAPHY-ICP-MS: TROUBLES AND SOLUTIONS
M.P. GÓRRIZ, E. BOLEA, F. LABORDA, J.R. CASTILLO

T57 SIMULTANEOUS DETERMINATION OF CR(III) AND CR(VI) WITH ION CHROMATOGRAPHY AND AN INDUCTIVELY COUPLED PLASMA MASS SPECTROMETER AS ELEMENT-SELECTIVE DETECTOR
Harald HAGENDORFER, Norbert KIENZL, Walter GOESSLER

As-Hg- Cr Speciation *(cont.)*

T58 SAMPLING AND DETERMINATION OF CHROMIUM(VI) AS WELL AS OF OTHER METALS IN AIR SURROUDING OF A FOUNDRY
Petra KRYSTEK, Sjoerd PISO, Rens VAN VEEN, Rob RITSEMA

T59 ON-LINE DESALTER-ICPMS SYSTEM FOR THE DIFFERENTIATION OF CR(III,VI) IN NATURAL WATERS
S. F. WU, Y.C. SUN

T60 DETERMINATION OF METHYLMERCURY IN TUNA FISH IN THE FRAMEWORK OF CCQM P-39 INTERCOMPARISON AND INVESTIGATION OF THE LIMITATIONS OF ETHYLMERCURY AS INTERNAL STANDARD
Zsuzsa JÓKAI, László ABRANKÓ, Péter FODOR

T61 ARSENIC SPECIES IN FRESHWATER ORGANISMS FROM THE RIVER DANUBE
Richard SCHAEFFER, Csilla SOEROES, Péter FODOR, Laszlo VARADI, Kevin A. FRANCESCONI, Walter GOESSLER, Reingard RAML, Norbert KIENZL, Doris KUEHNELT

T62 ARSENOSUGARS AND OTHER ARSENIC COMPOUNDS IN LITTORAL ZONE ALGAE FROM THE ADRIATIC SEA
Emese KÁPOLNA, Zdenka ŠLEJKOVEC, Johannes T. van ELTEREN, Ildi IPOLYI, Péter FODOR

T63 DETERMINATION, PRESERVATION AND STABILITY OF METHYLARSENIC SPECIES IN SALINE GROUND WATERS
Dirk WALLSCHLÄGER, Jacqueline LONDON

Se Speciation

T64 DISTRIBUTION OF SELENO SPECIES IN VEGETAL TISSUES BY SIZE EXCLUSION MOLECULAR AND CATION EXCHANGE CHROMATOGRAPHY HYPHENATED INDUCTIVE COUPLED PLASMA MASS SPECTROMETRY
Zoyne PEDRERO, Yolanda MADRID, Carmen CÁMARA

T65 STUDY OF MERCURY-SELENIUM INTERACTION IN ANIMAL TISSUE BY ION EXCHANGE AND SIZE EXCLUSION CHROMATOGRAPHY INDUCTIVELY COUPLED PLASMA-MASS SPECTROMETRY
Ana I. CABAÑERO, Yolanda MADRID, Carmen CÁMARA

T66 SPECIATION OF SELENIUM-CONTAINING PROTEINS IN SELENIUM-ENRICHED AGARICUS BISPORUS AND LENTINULA EDODES MUSHROOMS BY VARIOUS CHROMATOGRAPHIC TECHNIQUES COUPLED TO ICPMS
Valeria GERGELY, Kevin M. KUBACHKA, Péter FODOR, Joseph A. CARUSO

T67 THE DETERMINATION OF SELENIUM IN ICE SAMPLES FROM ANTARCTICA BY HG-ICP-QMS AND ICP-SFMS
Warren RL CAIRNS, Frederic AM PLANCHON, Clara TURETTA, Gabrielle CAPODAGLIO, Paolo CESCON, Carlo BARBANTE

T68 SPECIATION OF CATIONIC SELENIUM COMPOUNDS IN LEAVES OF BRASSICA JUNCEA BY SCX-ICP-MS
Santha YATHAVAKILLA, Monika SHAH, Sandra MOUNICOU, Joseph CARUSO

Se Speciation *(cont.)*

T69 SELENIUM AND MERCURY SPECIATION IN PLANTS BY HYPHENATED TECHNIQUES
Sandra MOUNICOU, Anne P. VONDERHEIDE, Juris MEIJA, Jodi SHANN, Joseph A. CARUSO

T70 CHARACTERISATION OF SELENIUM ENRICHED YEAST AS A CANDIDATE CRM
Shona McSHEEHY, Zoltan MESTER

T71 A MULTIDIMENSIONAL HYPHENATION APPROACH FOR STUDYING SPECIATION OF SELENOPROTEINS IN SELENIUM ENRICHED YEAST AND SUN FLOWER ROOTS
Baki B. M. SADI, Joseph A. CARUSO

T72 MAYOR AND TRACE ELEMENTS ANALYSIS IN MILK FORMULAES BY ICP-OES USING MICROWAVE DIGESTION
Liliana SALDÍVAR, Nadia MUNGUÍA, Ciro MÁRQUEZ

T73 CHARACTERISATION OF SELENIZED YEAST SUPPLEMENTS FOLLOWING IN VITRO GASTROINTESTINAL DIGESTION
Laura HINOJOSA REYES, Jorge RUIZ ENCINAR, Juan Manuel MARCHANTE GAYÓN, José Ignacio GARCÍA ALONSO, Alfredo SANZ-MEDEL

T74 COMPARISON OF QUANTITATIVE SELENIUM SPECIATION IN COMMERCIAL AND SELENISED AGARICUS MUSHROOMS
Vanesa DÍAZ HUERTA, María Luisa FERNÁNDEZ SÁNCHEZ, Alfredo SANZ-MEDEL

T75 THE ASSESSMENT OF NORMAL ELEMENTAL CONTENTS IN HUMAN HAIR
Olga SHUVAEVA, Evgeniya POLAYKOVA, Ella GLADKIKH

T76 A NEW APPROACH FOR QUANTITATIVE SELENOPROTEOMICS BY NANOHPLC – ICP-MS WITH ON-LINE ISOTOPE DILUTION ANALYSIS
Pierre GIUSTI, Dirk SCHAUMLÖFFEL, Joanna SZPUNAR

T77 SIMULTANEOUS SPECIATION OF MERCURY AND SELENIUM BY HPLC-MAD-AFS/AFS AND HPLC-MAD-ICP-MS
JL GÓMEZ-ARIZA, F. LORENZO, T. GARCÍA-BARRERA

T78 COMBINED USE OF ICP-Q-MS AND MASS SPECTROMETRY (Q-TOF-MS) FOR SELENOPROTEINS IDENTIFICATION AND CHARACTERIZATION IN FORMULA AND COW MILK AFTER SEPARATION BY 2-D PAGE
J. L. GÓMEZ-ARIZA, V. BERNAL-DAZA, M .J. VILLEGAS-PORTERO

T79 SELENIUM METABOLISM – ELUCIDATION OF SELENIUM METABOLIC PATHWAYS BY LC-ICP MS AND ESI-MS
Charlotte GABEL-JENSEN, Lars BENDAHL, Bente GAMMELGAARD

T80 QUANTIFICATION OF A SELENIUM-CONTAINING PROTEIN IN YEAST EXTRACT VIA AN ACCURATE DETERMINATION OF A TRYPTIC PEPTIDE BY SPECIES-SPECIFIC ISOTOPE DILUTION CAPILLARY HPLC - ICP MS
Aleksandra POLATAJKO, Jorge RUIZ ENCINAR, Dirk SCHAUMLÖFFEL, Joanna SZPUNAR

T81 HUMAN URINARY METABOLITES AFTER INGESTION OF PURE SELENIUM COMPOUNDS
Doris KUEHNELT, Norbert KIENZL, Pedro TRAAR, Hoang NAM LE, Kevin A. FRANCESCONI

20.00 User Meetings

Wednesday, 2 February 2005

ROOM A

08.30 – 09.00 **GD-OES, GD-MS**
Chair: József PALLÓSI

Plenary ALTERNATIVE PLASMA SOURCES FOR ATOMIC SPECTROSCOPY
Norbert JAKUBOWSKI, Joachim FRANZKE, Andy SCHEFFER, Wolfgang BUSCHER, Ken SHIMIZU

ROOM A

09.00 – 10.00 **Payling Memorial Session**
Chair: József PALLÓSI

09.00 – 09.20 RICHARD PAYLING IN HUNGARY
József PALLÓSI

09.20 – 09.40 ***Invited*** RICHARD PAYLING MEMORIAL LECTURE : EMISSION YIELDS IN RF GLOW DISCHARGE
Thomas NELIS

09.40 – 10.00 CONSTANT PRESSURE OR CONSTANT IMPEDANCE – A BRIEF HISTORY OF THE EMISSION YIELD CONTROVERSY IN GD-OES
Arne BENGTSON

ROOM B

09.00 – 10.00 **Plasma Application**
Chair: Ignacio ALONSO

09.00 – 09.20 ***Invited*** CLS-ICP-MS: COINCIDENCE LASER SPECTROSCOPY FOR ION DETECTION IN ICP-MS – WILL IT WORK?
Barry L. SHARP, Phillip S. GOODALL, Ljubinko IGNJATOVIC, Huaguo TENG

09.20 – 09.40 LA-ICP-IDMS USING HIGH PULSE ENERGY LASER RADIATION: CROSSING THE BORDERS IN DIRECT TRACE ELEMENT ANALYSIS IN SOLID SAMPLES
Sergei F. BOULYGA, Klaus G. HEUMANN

09.40 – 10.00 DEPTH PROFILING OF ION IMPLANTS USING LASER ABLATION AS ION SOURCE AND CHARACTERIZATION MICROPROBE
D. BLEINER, F. BELLONI, D. DORIA, P. LIENEMANN, V. NASSISI, H. VONMONT

10.00 – 10.20 *Coffee break*

ROOM C

09.00 – 10.00 **Sample Introduction**
Chair: Viktor KANICKÝ

09.00 – 09.20 SIMULTANEOUS ANALYSIS BY TIME-OF-FLIGHT MASS SPECTROMETRY AND ATOMIC EMISSION SPECTROSCOPY TO STUDY DIFFERENCES IN LASER FLUENCE THRESHOLDS FOR IONIZATION AND PLASMA FORMATION PROCESSES IN METALS
Jose Miguel VADILLO, Carmen Cecilia GARCIA, Javier LASERNA

09.20 – 09.40 NOVEL ARRANGEMENT FOR ON-LINE ISOTOPE DILUTION IN LASER ABLATION ICP-MS VIA MICROFLOW NEBULIZATION
C. PICKHARDT, D. SCHAUMLÖFFEL, M. ZORIY, J.S. BECKER

09.40 – 10.00 IDENTIFICATION AND CONTROL OF METAL POLLUTANT SPIKES IN WASTE TO ENERGY PLANTS – A NOVEL APPLICATION FOR ICP-OES
David POOLE, Vida SHARIFI, Jim SWITHENBANK, Dirk ARDELT

ROOM A

10.20 – 12.00 **Payling Memorial Session *(cont.)***
Chair: Arne BENGSTON

10.20 – 10.40 EMISSION YIELD RELATED RESEARCH AT IFW DRESDEN
Volker HOFFMANN, Ludger WILKEN, Young-Sang KIM, Diego Martínez MARTÍNEZ

10.40 – 11.00 FURTHER EXPERIMENTAL DATA CONCERNING THE CONCEPT OF 'ABSOLUTE' EMISSION YIELDS IN GD-OES
Zdenek WEISS, Petr ŠMÍD, Edward B.M. STEERS

11.00 – 11.20 ANOMALOUS PROFILES OF HYDROGEN SPECTRAL LINES AND THE IMPLICATIONS FOR ANALYSIS
Edward STEERS, Petr ŠMÍD

11.20 – 11.40 RELATIVE SPUTTERING RATES AND EMISSION YIELDS FOR GD: A THEORETICAL POINT OF VIEW
Leanne PITCHFORD

11.40 – 12.00 APPLICATIONS OF RF-GD-OES TO THERMAL SENSITIVE MATERIALSe WITH A PULSE RF SOURCE AND COUPLING A RF-GD-OES TO A DC ARC FOR THE ANALYSIS OF POWDERED MATERIALS
P. CHAPON, P. PERZL, J. HASSLER

ROOM B

10.20 – 12.00 **Speciation**
Chair: Ignacio ALONSO

10.20 – 10.40 ***Invited*** RECENT ADVANCES IN ARSENIC SPECIATION ANALYSIS USING HPLC-ICPMS
Walter GOESSLER

10.40 – 11.00 DO PLANTS FORM ARSENIC-PHYTOCHELATIN COMPLEXES? AN APPLICATION OF THE PARALLEL AND SIMULTANEOUS USE OF ICP-MS AND ES-MS FOR HPLC
Andrea RAAB, Jörg FELDMANN

11.00 – 11.20 ARSENIC SPECIES IN HAIR AND SKIN OF PRE-COLUMBIAN MUMMIES USING XANES/EXAFS AND HPLC-ICP-MS
Andrea RAAB, J. CHANNOCK, F. BAHRAMI, Jörg FELDMANN

11.20 – 11.40 SPECIATION OF SELENIUM AT THE NG(SE) L-1 LEVEL WITH ICPMS EQUIPPED WITH COLLISION/REACTION CELL SYSTEM: ADVANTAGES, DRAWBACKS AND HOW TO OVERCOME THEM….
Jérôme DARROUZES, Stéphane SIMON, Maïté BUENO, Florence PANNIER, Martine POTIN-GAUTIER

11.40 – 12.00 COMPARING A SELENIUM ACCUMULATOR PLANT (Brassica juncea) TO A NON-ACCUMULATOR PLANT (Helianthus annuus) TO INVESTIGATE SELENIUM-CONTAINING PROTEINS
Sandra MOUNICOU, Anne P. VONDERHEIDE, Jodi SHANN, Joseph A. CARUSO

ROOM C

10.20 – 12.00 **Sample Introduction *(cont.)***
Chair: Viktor KANICKÝ

10.20 – 10.40 AIRBORNE PARTICLES BY ITV-ICP-AES (IN-TORCH VAPORIZATION-INDUCTIVELY COUPLED PLASMA-ATOMIC EMISSION SPECTROMETRY) AND ITV-GC-MS (ITV-GAS CHROMATOGRAPHY-MASS SPECTROMETRY)
Greg SPRAH, Cathy ZHAO, Vassili KARANASSIOS

10.40 – 11.00 DOWNSCALING SAMPLE INTRODUCTION TECHNIQUES FOR INTERFACING NANO-VOLUME FLOW INJECTION AND CAPILLARY LIQUID SEPARATION TO ICP-MS
Dirk SCHAUMLÖFFEL, Ryszard LOBINSKY

11.00 – 11.20 ELEMENTAL ANALYSIS OF MICRO- AND NAN-SIZE SAMPLES BY RHENIUM COIL-FILAMENT IN-TORCH VAPORIZATION (ITV) SAMPLE INTRODUCTION AND AN AXIALLY-VIEWED ICP-AES SYSTEM
Hamid BADIEI, Vassili KARANASSIOS

11.20 – 11.40 MECHANISM AND EFFICIENCY OF CHEMICAL VAPOUR GENERATION OF SILVER
Tomas MATOUSEK

11.40 – 12.00 ANALYSIS OF SIZE DISTRIBUTON OF OXIDES IN STEEL BY OPTICAL EMISSION SPECTROSCOPY
Tomohiro MATSUSHIMA, Wataru TANIMOTO, Hisao YASUHARA, Yoshinori YOMURA

12.00 – 14.00 *Lunch break*

ROOM A

14.00 – 15.00 **GD-OES, GD-MS**
Chair: Edward STEERS

14.00 – 14.20 ***Invited*** THE ROLE OF PLASMA MASS SPECTROMETRY FOR THE CHARACTERIZATION OF NUCLEAR SAMPLES AS WELL AS FOR THE DETECTION AND SURVEILLANCE OF RADIOACTIVITY IN THE ENVIRONMENT
Maria BETTI

14.20 – 14.40 DEVELOPMENT OF HELIUM RADIO-FREQUENCY GLOW DISCHARGE PLASMA SOURCE ASSOCIATED WITH LASER ABLATION SAMPLING
Kazuaki WAGATSUMA, Yohei USHIROZAWA, Hideyuki MATSUTA

14.40 – 15.00 LASER-SCATTERING PLASMA DIAGNOSTICS FOR THE TIME AND SPATIALLY RESOLVED CHARACTERIZATION OF A MILLISECOND-PULSED GLOW DISCHARGE
Gerardo GAMEZ, Gary M. HIEFTJE

ROOM B

14.00 – 15.00 **Speciation**
Chair: Eric LARSEN

14.00 – 14.20 ***Invited*** ICP-MS FOR ENVIRONMENTAL AND BIOMEDICAL ANALYSIS OF PLATINUM GROUP ELEMENTS
Stephan HANN, Gunda KOELLENSPERGER

14.20 – 14.40 ***Invited*** CE–ICP-MS – AN EFFICIENT TOOL FOR THE INVESTIGATION OF ANTICANCER METALLODRUG ACTION
Kasia POLEC-PAWLAK, Rafal RUZIK, Svetlana ALEKSENKO, Andrei TIMERBAEV, Christian HARTINGER, Bernhard KEPPLER, Maciej JAROSZ

14.40 – 15.00 DEVELOPMENT OF A NOVEL PASSIVE SAMPLING SYSTEM FOR THE TIME-AVERAGED MEASUREMENT OF ORGANOTIN COMPOUNDS IN AQUATIC ENVIRONMENTS
R. AGUILAR, M. GÓMEZ, M.A. PALACIOS

ROOM C

14.00 – 15.00 **Plasma Application, LA-ICP-MS**
Chair: József POSTA

14.00 – 14.20 ***Invited*** CAN INTERNAL STANDARDISATION IN PLASMA SPECTROCHEMISTRY ASSIST IN IMPROVING CLINICAL AND ENVIRONMENTAL MEASUREMENTS OF TOXIC ELEMENTS?
Yngvar THOMASSEN

14.20 – 14.40 FRACTIONATION OF ELEMENTS FROM AEROSOL, SEDIMENT AND FLY ASH SAMPLES
Zoltán AUGUSZTINY, Klára POLYÁK, József HLAVAY

14.40 – 15.00 A LASER ABLATION ICP-MS SYSTEM FOR THE ANALYSIS OF RADIO-ACTIVE SAMPLES
Marcel GUILLONG, Peter HEIMGARTNER, Ines GÜNTHER-LEOPOLD, Matthias HORVAT, Zlatan KOPAJTIC

15.00 – 15.30 *Coffee break*

ROOM A

15.30 – 16.50 **GD-OES, GD-MS**
Chair: Zdenek WEISS

15.30 – 15.50 INVESTIGATIONS ON THE SPATIAL DISTRIBUTION OF GAS AND ELECTRON TEMPERATURES TOGETHER WITH ATOMIC AND MOLECULAR EMISSION IN THE ELECTROLYTE CATHODE ATMOSPHERIC GLOW DISCHARGE (ELCAD)
P. MEZEI, T. CSERFALVI, L. CSILLAG

15.50 – 16.10 ANALYSIS OF OXIDE LAYERS BY GLOW DISCHARGE OPTICAL EMISSION SPECTROMETRY USING AN ARGON HYDROGEN MIXTURE AS PLASMA GAS
Michael KOESTER

16.10 – 16.30 ELEMENTAL ANALYSIS OF SOLUTION BASED ON PULSED GLOW DISCHARGE - TOFMS. INFLUENCE OF GAS FLOW RATE, POSITIVE DC CATHODE VOLTAGE DISPLACEMENT AND SAMPLER VOLTAGE ON ANALYTICAL PARAMETERS OF THE TECHNIQU
Alexander GANEEV, Sergey POTAPOV, Maxim VORONOV, Anatoly DROBISHEV, Roman TJUKALTZEV, Michail KUZMENKOV

16.30 – 16.50 THE EFFECT OF AR/H2 MIXTURES AS PLASMA GAS ON DIRECT CURRENT AND RADIOFREQUENCY GLOW DISCHARGE - MASS SPECTROMETRY. ANALYSIS OF CONDUCTING AND INSULATING MATERIALS
Armando MENÉNDEZ, Nerea BORDEL, Rosario PEREIRO, Alfredo SANZ-MEDEL

ROOM B

15.30 – 16.50 Food Analysis
Chair: Eric LARSEN

15.30 – 15.50 THE USE OF ICP-HIGH RESOLUTION-MS, AS PART OF A MULTI-TECHNIQUE 'METABOLOMIC' APPROACH, TO INVESTIGATE FOOD PRODUCTION-RELATED PHENOMENA
John LEWIS

15.50 – 16.10 DISTRIBUTION ELEMENTAL PATTERNS AND PROTEIN CHARACTERIZATION IN HUMAN AND FORMULA MILK WHEY AT DIFFERENT LACTATION STAGES OF THE NEWBORN
R. R. de la Flor St. REMY, M. L. FERNÁNDEZ SÁNCHEZ, J. B. LÓPEZ SASTRE, A. SANZ-MEDEL

16.10 – 16.30 DETERMINATION OF IODINE-129 IN MILK BY ICP-MS: PROBLEMS AND SOLUTIONS
Helen J. REID, Mark R. LANDON, Ciaran J. P. O'CONNOR, Barry L. SHARP

16.30 – 16.50 THE ANALYSIS OF DNA BY COLLISION CELL ICP-MS
Peter D. WINSHIP, Barry L. SHARP

ROOM C

15.30 – 16.30 LA-ICP-MS
Chair: József POSTA

15.30 – 15.50 MODIFIED PRESSED POWDER SAMPLE PREPARATION FOR LASER ABLATION INDUCTIVELY COUPLED PLASMA MASS SPECTROMETRY
Mark LANDON, Helen REID, Barry SHARP

15.50 – 16.10 "SOLUTIONS" FOR CALIBRATING LASER ABLATION-ICP-MS
Ciaran O'CONNOR, Barry L. SHARP

16.10 – 16.30 LASER ABLATION ICP-MS U-TH-PB DATING OF COMPLEX ZIRCON: APPLICATION AND LIMITS
Axel GERDES

LOUNGE

17.00 – 19.00 Poster Session 3

GD

W01 THE USE OF DOPPLER BROADENING TO DETERMINE GAS TEMPERATURES IN A GLOW DISCHARGE SOURCE
Petr ŠMÍD, Edward STEERS

W02 SUITABILITY OF COATINGS CONTAINING HYDROGEN AS CRM FOR GDS
Vasile-Dan HODOROABA, Volker HOFFMANN, Wolfgang PAATSCH, Wolfgang BOHNE, Jörg RÖHRICH, Erik STRUB

W03 PERFORMANCE CHARACTERISTICS AND APPLICATIONS OF A NEW GLOW DISCHARGE SECTOR FIELD MASS SPECTROMETER
Joachim HINRICHS, Lothar ROTTMANN, Wolfgang SCHOETTGER, Nicole FRERICHS

GD *(cont.)*

W04 ANALYSIS OF GEL ELECTROPHEROGRAMS AND BLOTTING MEMBRANES VIA SPATIALLY RESOLVED GLOW DISCHARGE OPTICAL EMISSION SPECTROMETRY
Gerardo GAMEZ, Steven J. RAY, Francisco ANDRADE, Michael WEBB, Gary M. HIEFTJE

W05 AN ORIGINAL NUCLEARISATION of a GD/OES
Hervé CHOLLET, Vincent LAVOINE, Jean Charles HUBINOIS, Marie Hélène POINSO

W06 ANALYTICAL APPROACH FOR RESOLVING OF MASS INTERFERENCES IN GDMS
Alexander PIVOVAROV, Karol PUTYERA, Martin KASIK

W07 DIRECT SOLID ANALYSIS OF GLASSES BY RADIOFREQUENCY GLOW DISCHARGE TIME OF FLIGHT MASS SPECTROMETRY
Jorge PISONERO, Beatriz FERNÁNDEZ, Armando MENENDEZ, Nerea BORDEL, Rosario PEREIRO, Alfredo SANZ-MEDEL

W08 A HIGH RESOLUTION CCD DETECTOR SYSTEM FOR GDOES
Roland DORKA, Ruediger MEIHSNER, Michael ANALYTIS

W09 AN ORIGINAL GLOW DISCHARGE HIGH RESOLUTION MASS SPECTROMETER TO ANALYSE ULTRA PURE CONDUCTING AND NO CONDUCTING SOLID MATERIALS
Hugues PREUD'HOMME, Nick McKINNON, Peter ROBINSON

W10 HYDROGEN NEGATIVE ION FORMATION IN HOLLOW CATHODE GLOW DISCHARGE
Veselina GENCHEVA, Renna DJULGEROVA, Valentin MIHAILOV

W11 QUANTITATION OF QUENCHING EFFECTS ON ARGON METASTABLES IN PULSED GLOW DISCHARGE MASS SPECTROMETRY
Daniel FLIEGEL, Detlef GÜNTHER

W12 GLOW DISCHARGE SOURCE ASSOCIATED WITH OPTIC AND MASS SPECTROMETRY
Michel TABARANT, Denis MENUT

W13 PULSED GLOW-DISCHARGE TIME-OF-FLIGHT MASS SPECTROMETRY FOR ELEMENTAL AND MOLECULAR ANALYSIS
M. HOHL, J. MICHLER, T. NELIS, K. FUHRER, M. GONIN, P. WURZ

W14 LAYER-BY-LAYER ANALYSIS OF SEVERAL NEW MATERIALS IN HOLLOW CATHODE DISCHARGE
Renna DJULGEROVA, Valentin MIHAILOV, Veselina GENCHEVA, Zoran Lj. PETROVIC

W15 CATHODE AND ANODE MATERIAL INFLUENCE ON THE ELECTRICAL AND OPTICAL PROPERTIES OF A RADIOFREQUENCY GLOW DISCHARGE USED FOR OPTICAL EMISSION SPECTROSCOPY
Zoheir GHALEM, Laurent THERESE, Philippe GUILLOT, Philippe BELENGUER

W16 SPECTROSCOPIC CHARACTERIZATION BY OPTICAL EMISSION SPECTROMETRY OF LASER INDUCED PLASMAS ASSISTED BY GLOW DISCHARGE SPUTTERING IN CONTINUOUS AND PULSED REGIME
Keith TERESZCHUK, Jose Miguel VADILLO, Javier LASERNA

GD *(cont.)*

W17 ANALYSIS OF ARRAYS OF NI NANOWIRES INTO SELF-ALIGNED TITANIA NANOTUBES BY RADIOFREQUENCY GLOW DISCHARGE–OPTICAL EMISSION SPECTROMETRY
A. MENÉNDEZ, R. PEREIRO, N. BORDEL, V.M. PRIDA, B. HERNANDO, M. HERNÁNDEZ-VÉLEZ, K. PIROTA, M. VÁZQUEZ, A. SANZ-MEDEL

W18 STUDIES ABOUT THE IN-DEPTH PROFILE QUANTIFICATION OF THIN FILMS ON GLASSES BY RADIOFREQUENCY GLOW DISCHARGE-OPTICAL EMISSION SPECTROMETRY
Beatriz FERNÁNDEZ, Nerea BORDEL, Rosario PEREIRO, Alfredo SANZ-MEDEL

W19 MULTIMETAL DETECTOR BASED ON ELCAD OPTICAL EMISSION SPECTROMETRY PRINCIPLE FOR CAPILLARY ANALYTICAL SYSTEMS
T. CSERFALVI, P. MEZEI

W20 RF-GD-OES FOR NON CONDUCTIVE MATERIALS: SOME FEATURES
Philippe LE COUSTUMER, Patrick CHAPON, Celia OLIVERO, Mikael MOTELICA, Fouad AMIN, Arnaud GAUTHIER, Hugues FRANCOIS SAINT-CYR, Cédric LOPEZ

W21 FURTHER INVESTIGATIONS OF THE EFFECT OF MOLECULAR SPECIES ON THE ANALYSIS OF ORGANICS WITH GD_OES
Arne BENGTSON, James OLIVER

W22 USE OF NEW ELECTRICAL SIGNALS FOR QUANTITATIVE MEASUREMENTS OF INSULATING SAMPLES BY RF-GD-OES
L. WILKEN, V. HOFFMANN, K. WETZIG

W23 INTERFACIAL EFFECTS ON THE DEPTH RESOLUTION DURING THE ANALYSIS OF MULTILAYERS METAL COATINGS BY RADIO FREQUENCY GLOW DISCHARGE OPTICAL EMISSION SPECTROSCOPY DEPTH PROFILING
Ramón ESCOBAR GALINDO, Eduardo FORNIES, José María ALBELLA

W24 PULSED HOLLOW CATHODE AS ION SOURCE FOR SOLID STATE SAMPLES - TOFMS ANALYSIS
A. GANEEV, A. DROBYSHEV, S. POTAPOV, M. VORONOV, R. TJUKALTZEV, M. KUZMENKOV

W25 HOLLOW CATHODE ION SOURCE FOR THE ELEMENTAL ANALYSIS OF SOLIDS
George SIKHARULIDZE

W26 A NEW HIGH PRESSURE GLOW DISCHARGE PULSED ATOMIZER FOR ZEEMAN SPECTROMETRY
Alexander GANEEV, Atis SKUDRA, Stanislav SUPRUNOVICH, Natalja ZORINA

W27 ORGANOTIN SPECIATION USING FAST FLOW GLOW DISCHARGE MASS SPECTROMETRY
Karla NEWMAN, Rod S. MASON

W28 CHARACTERIZATION OF SURFACES AND THIN FILMS DOWN TO THE NANOMETER SCALE OF CONDUCTIVE AND NON-CONDUCTIVE MATERIALS BY RF-GD-OES
P. CHAPON, C. OLIVERO

Proteomics

W29 ION PAIRING-REVERSED PHASE CHROMATOGRAPHY COUPLED TO SECTOR FIELD ICP-MS (IP-RPC-ICP-SFMS) FOR THE DETERMINATION OF METAL-BOUND PHYTOCHELATINES (ME-PC) IN SILENE VULGARIS EXTRACTS
Valeria LORETI, Jörg BETTMER

W30 PROTEOMICS WITH SEC-ICP-MS: INCREASING THE CHROMATOGRAPHIC RESOLUTION BY SIGNAL POST-PROCESSING
Alexei PLOTNIKOV, Christian WOLF, Holger BERTELSMANN, Antonios KYRIAKOPOULOS

W31 IDENTIFICATION OF WATER SOLUBLE PROTEINS IN AGARICUS BISPORUS AND LENTINULA EDODES MUSHROOMS BY VARIOUS CHROMATOGRAPHIC AND MASS SPECTROMETRIC METHODS
Kevin M. KUBACHKA, Valeria GERGELY, Péter FODOR, Joseph A. CARUSO

W32 PHOSPHO- AND METALLOPROTEOMICS BY COMBINATION OF MALDI-FTICR-MS AND LA-ICP-MS AFTER 2D GEL ELECTROPHORESIS
J. Susanne BECKER, Miroslav V. ZORIY, Udo KRAUSE-BUCHOLZ, Carola PICKHARDT, Gerhard RÖDEL, Michael PRZYBYLSKI, J. Sabine BECKER

W33 SIMULTANEOUS PHOSPHOR, SULPHUR AND METAL ION SPECIATION IN PROTEINS USING HPLC / SECTOR FIELD ICP-MS
Torsten LINDEMANN, Meike HAMESTER, Lothar ROTTMANN

W34 MULTI-ELEMENT SPECIATION OF PROTEIN-BOUND METAL(LOID)S IN HUMAN BLOOD BY SEC-ICP-MS
Frank HASENAECKER, Roland DIAZ-BONE, Alfred V. HIRNER

W35 RELATIVE QUANTITATION OF PEPTIDES BY DIFFERENTIAL ISOTOPIC TAGGING USING ISOTOPE DILUTION MASS SPECTROMETRY
Pritesh PATEL, E. Hywel EVANS, Richard HANDY, Phil JONES, Peter MARSHALL, Bill LEAVENS

W36 TWO DIMENSIONAL SEPARATION SCHEMES FOR INVESTIGATION OF THE INTERACTION OF AN ANTICANCER RUTHENIUM (III) COMPOUND WITH PLASMA AND CYTOSOL PROTEINS
Michael SULYOK, Stephan HANN, Christian G. HARTINGER, Bernhard K. KEPPLER, Gerhard STINGEDER, Gunda KOELLENSPERGER

W37 DETERMINATION OF PROTEIN PHOSPHORYLATION DEGREE WITH LC-ICP-MS AND LA-ICP-MS: A COMPARISON
Ralf KRUEGER, Wolf D. LEHMANN

W38 HPLC-ICP-MS AND MALDI-TOF / ESI-Q-TOF FOR CHARACTERIZATION OF THE DIFFERENT HUMAN SERUM TRANSFERRIN GLYCOFORMS
M. Estela del CASTILLO BUSTO, María MONTES-BAYÓN, Elisa BLANCO-GONZÁLEZ, Alfredo SANZ-MEDEL

W39 DERIVATISATION OF PEPTIDES WITH A BROMINATED PHOSPHONIUM DERIVATISING REAGENT TO DETERMINE THE EXTENT OF PHOSPHORYLATION USING BROMINE AND PHOSPHORUS ISOTOPE RATIOS
Andrew CARTWRIGHT, E. Hywel EVANS, Phil JONES, Jean-Claude WOLFF

Proteomics *(cont.)*

W40 PARALLEL ICP-MS AND EI-MS DETECTION AFTER GC SEPARATION AS AN UNIQUE TOOL FOR SPECIATION OF ORGANOMETAL(LOID)S IN BIOLOGICAL SAMPLES
Jan KOESTERS, Joerg HIPPLER, Alfred.V. HIRNER

W41 METALLOPROTEIN IDENTIFICATION AND CHARACTERIZATION IN ORANGE JUICE BY 2D-PAGE, ICP-Q-MS AND MASS SPECTROMETRY (Q-TOF-MS)
J.L. GÓMEZ-ARIZA, Mª.J. VILLEGAS-PORTERO, V. BERNAL-DAZA

W42 COMPARATIVE DETERMINATION OF PROTEIN BOUND METAL(OID)S IN HUMAN SERUM AND BLOOD SAMPLES BY NATIVE VS. SDS GEL ELECTROPHORESIS COUPLED WITH LA-ICP-MS
Joachim FELIX, Roland DIAZ-BONE, Alfred V. HIRNER

W43 CHARACTERISATION OF A NEW ANALYTICAL HYPHENATED TECHNIQUE: GC-SPLITTED EFFLUENT-FID/ICP-MS FOR THE DETERMINATION OF PESTICIDES
Márta ÜVEGES, László ABRANKÓ, Péter FODOR

W44 TOWARDS HIGH SENSITIVITY MEASUREMENT OF PHOSPHORYLATED PROTEINS – GEL ELECTROPHORESIS AND FLOW INJECTION–INDUCTIVELY COUPLED PLASMA-MASS SPECTROMETRY
Victoria L. ELLIOTT, Cameron W. McLEOD and Peter S. MARSHALL

W45 QUANTITATIVE METALLOMICS AND TRACER STUDIES ON METALLOPROTEINS IN HUMAN BRAIN SAMPLES BY LA-ICP-MS AND MALDI-FTICR-MS AFTER 2D GEL ELECTROPHORESIS
J. Sabine BECKER, J. Susanne BECKER, Miroslav V. ZORIY, Carola PICKHARDT, Michael PRZYBYLSKI

Laser Ablation

W46 MULTI-PULSE LIPS SPECTROSCOPY USING A PASSIVE Q-SWITCHED ND LASER
Gabor GALBACS, Viktoria BUDAVARI

W47 SAMPLE PREPARATION AND CALIBRATION STRATEGY ON MULTI-ELEMENTAL ANALYSIS OF ORGANIC SAMPLES BY LASER ABLATION-ICP-MS
J.R. CASTILLO, M.S. JIMÉNEZ, M.T. GÓMEZ

W48 MICROLOCAL (15-50 µm) ISOTOPE RATIO MEASUREMENTS OF URANIUM ON BIOLOGICAL SURFACE BY LA-ICP-MS WITH A COOLED LASER ABLATION CHAMBER
Myroslav V. ZORIY, M. KAYSER, A. IZMER, C. PICKHARDT, P. OSTAPCZUK, J.S. BECKER

W49 PREPARATION OF POWDERED SAMPLES FOR LA-ICP-OES
Markéta HOLÁ, Pavel KRÁSENSKÝ, Vítezslav OTRUBA, Viktor KANICKÝ

W50 CHARGE AND TRANSPORT PROPERTIES OF PARTICLES DURING LASER ABLATION SAMPLING
Jitka MIKOVA, Jan HOVORKA, Jan KOSLER

W51 SIGNIFICANCE OF ISOBARIC INTERFERENCES IN HF ISOTOPIC ANALYSIS OF GEOLOGICAL SAMPLES
Jirí SLÁMA, Jan KOSLER

Laser Ablation *(cont.)*

W52 A NEW METHOD FOR THE DETECTION OF PROTEINS BY LA-ICP-MS USING GOLDCLUSTER LABELED ANTIBODIES
Sebastian MUELLER, Roland DIAZ-BONE, Wolfgang GOEDECKE, Alfred V. HIRNER

W53 STUDIES ON ANALYTE RESPONSE AND POLYATOMIC ION FORMATION IN DEPENDENCE ON OPERATING PARAMETERS IN LA-ICPMS
Zhongke WANG, Bodo HATTENDORF, Detlef GÜNTHER

W54 ANALYSIS OF POWDERED TUNGSTEN CARBIDE BY LASER INDUCED BREAKDOWN SPECTROMETRY
Karel NOVOTNÝ, Alice STANKOVA, Vítezslav OTRUBA, Viktor KANICKÝ

W55 DEPTH PROFILING OF ZINC-COATED SHEET USING LASER-INDUCED BREAKDOWN SPECTROSCOPY
Tomas VACULOVIC, Michaela GALIOVA, Karel NOVOTNÝ, Vítezslav OTRUBA, Viktor KANICKÝ

W56 COMPARISONS OF LIBS AND ICP / AES TECHNIQUES
Pascal FICHET, Michel TABARANT

W57 ABLATION STUDIES ON TITANIUM DIOXIDE POWDER SAMPLES WITH TWO DIFFERENT LASER SYSTEMS (193 nm AND 266 nm)
Christian FREI, Detlef GÜNTHER

W58 DEVELOPMENT AND EVALUATION OF LOW PRESSURE LASER ABLATION COUPLED TO ICP-MS
Daniel FLIEGEL, Detlef GÜNTHER

W59 LASER ABLATION ICP-MS IN FORENSIC GLASS ANALYSIS: WAVELENGTH DEPENDENT CHANGES OF REFRACTIVE INDEX OF GLASS FRAGMENTS AFTER LASER ABLATION
S. BECKER, M. DÜCKING, Ch. LATKOCZY, D. GÜNTHER

W60 LA-ICP-MS STUDIES IN NICRALY-BASED COATINGS ON HIGH TEMPERATURE ALLOYS
Andrei V. IZMER, Miroslav V. ZORIY, Carola PICKHARDT, W.J. QUADAKKERS, J. Sabine BECKER

W61 THERMAL IN-LINE SEPARATION OF ELEMENTS IN LASER ABLATION ICPMS – A Rb-Sr CASE STUDY
Bodo HATTENDORF, Marcel GUILLONG, Detlef GÜNTHER

W62 ELEMENTAL MAPPINGS IN MATERIAL SCIENCES - FROM IMAGES TO QUANTITATIVE INFORMATION BY LA-ICP-SF-MS
Christopher LATKOCZY, Yves MÜLLER, Patrik SCHMUTZ, Detlef GÜNTHER

W63 DETERMINATION OF RARE EARTH ELEMENTS IN BONES USING LA-ICP-MS
Susan GRUHL, Abdelouahed DARAOUI, Frank WITTE, Carla VOGT

W64 IN SITU LASER ABLATION SAMPLING FOR INDUCTIVELY COUPLED PLASMA MASS SPECTROMETRY
Martin TANNER, Detlef GÜNTHER

W65 ANALYSIS OF ALUMINA-BASED CATALYSTS BY LA-ICP-AES
C. DUBOIS, N. GILON, C-P. LIENEMANN, J. M. MERMET

Laser Ablation *(cont.)*

W66 LASER ABLATION-INDUCTIVELY COUPLED PLASMA MASS SPECTROMETRY FOR THE DIRECT ANALYSIS OF DIFFERENT PLASTIC MATERIALS
Esperanza GARCIA-RUIZ, Martin RESANO, Frank VANHAECKE

W67 DEVELOPMENTS IN BIOLOGICAL AND ENVIRONMENTAL APPLICATIONS OF LASER ABLATION INDUCTIVELY COUPLED PLASMA MASS SPECTROMETRY (LA-ICP-MS)
Steven F. DURRANT, Neil I. WARD

W68 ELEMENTAL MAPPING OF GUNSHOT RESIDUES VIA LA-ICP-MS
Song Cai WANG, D. TALIB, R. MA, A. COX, C.W. McLEOD, Ruo Kui XING, C. PARK

W69 INTERROGATION OF LASER CAPTURE MICRODISSECTION TISSUE AND MICROTOMED TISSUE SAMPLES BY LA-ICP-MS – A COMPARATIVE STUDY
R.W. HUTCHINSON, A.G. COX, C.W. McLEOD, D.R. HOWLETT, P.S. MARSHALL

W70 GEL ELECTROPHORESIS AND FEMTOSECOND LASER ABLATION – ICP/MS
J.R. CASTILLO, J. GONZALEZ, R.E. RUSSO

Sample Introduction

W71 DIRECT DETERMINATION OF TRACE ELEMENTS IN ALUMINA CERAMIC POWDERS BY INDUCTIVELY COUPLED PLASMA MASS SPECTROMETRY USING ELECTROTHERMAL VAPORIZATION
Birgit U. PESCHEL, Gary M. HIEFTJE, José A.C. BROEKAERT

W72 DETERMINATION OF TRACE METALS IN COAL BY INDUCTIVELY COUPLED PLASMA SPECTROMETRY WITH MICROWAVE-ASSISTED DIGESTION NOT USING A 'TROUBLE MAKER'; HYDROFLUORIC ACID
Tetsuya NAKAZATO, Jie WANG, Kinya SAKANISHI, Osamu YAMADA, Hiroaki TAO, Ikuo SAITO

W73 DIRECT ATOMIC SPECTROMETRIC ANALYSIS OF METAL OXIDE SAMPLES BY CONTINUOUS POWDER INTRODUCTION INTO MICROWAVE INDUCED PLASMA
Krzysztof JANKOWSKI, Adrianna JACKOWSKA, Pawel LUKASIAK

W74 SPECTROSCOPIC DIAGNOSTICS OF A CONTINUOUS POWDER INTRODUCTION MICROWAVE INDUCED PLASMA ATOMIC EMISSION SPECTROMETRY SYSTEM
Adrianna JACKOWSKA, Krzysztof JANKOWSKI

W75 EVALUATION OF CONTINUOUS HYDRIDE GENERATION MICROWAVE INDUCED PLASMA ATOMIC EMISSION SPECTROMETRY SYSTEM FOR SIMULTANEOUS DETERMINATION OF TRACE ELEMENTS IN SOILS
Krzysztof JANKOWSKI, Adrianna JACKOWSKA, Anna FLADER, Katarzyna HAR

W76 A SENSITIVE METHOD FOR ANALYSIS OF HALOANISOLES IN WINES BY ON-LINE EXTRACTION USING PERVAPORATION AND DETERMINATION BY GAS CHROMATOGRAPHY COUPLED TO ICP-MS
J.L. GÓMEZ-ARIZA, T. GARCÍA-BARRERA, F. LORENZO

W77 A NEW FILTRATION DEVICE FOR WATER SUITABLE FOR ULTRA TRACE ELEMENTAL ANALYSIS
Ichiro KANO, Masanori KANAZAWA, Yukio HASHIMOTO

Sample Introduction *(cont.)*

W78 COMPARISON OF SOLID-PHASE MICROEXTRACTION COUPLED WITH GC-MS AND GC-ICP-MS FOR THE DETERMINATION OF ORGANOPHOSPHORUS PESTICIDES IN WATER SAMPLES
Natalia FIDALGO-USED, Elisa BLANCO-GONZÁLEZ, Alfredo SANZ-MEDEL

W79 COMPARISON OF DIGESTION TECHNIQUES FOR DETERMINATION OF IODINE IN MILK BY VAPOUR-GENERATION INDUCTIVELY COUPLED PLASMA - OPTICAL EMISSION SPECTROMETRY
Eva NIEDOBOVÁ, Jirí MACHÁT, Viktor KANICKÝ, Vítezslav OTRUBA

W80 DESIGN AND DEVELOPMENT OF ELECTRODEPOSITION TECHNIQUE FOR SEPARATION AND PRECONCENTRATION OF Co, Ni, Au, Pt, In, Pt IN ENVIRONMENTAL SAMPLES PRIOR TO FAAS AND ICP-AES MEASUREMENTS
Nahid MASHKOURI NAJAFI, Parmiss SHAKERI

W81 USE OF A NOVEL SEQUENTIAL EXTRACTION PROCEDURE WITH CHEMOMETRIC DATA TREATMENT AND ICP-AES ANALYSIS TO ASSESS THE METAL DISTRIBUTION WITHIN THE PHYSICO-CHEMICAL COMPONENTS IN SEDIMENTS FROM THE GALICI
Rebeca SANTAMARÍA-FERNÁNDEZ, Mark R. CAVE, Steve J. HILL

W82 A NOVEL ON-LINE SEQUENTIAL EXTRACTION PROCEDURE FOR METAL PARTITIONING IN SOILS AND SEDIMENTS
Steve J. HILL, Rebeca SANTAMARÍA-FERNÁNDEZ, Mark R. CAVE

EUROPA BOAT

20.00 – 23.00 Banquet *(optional, ticket required)*

Thursday, 3 February 2005

ROOM A

09.00 – 10.00 **Metallomics**
Chair: Zoltán MESTER

09.00 – 09.30 PLASMA SOURCE TECHNIQUES: FROM SPECIATION ANALYSIS TO METALLOMICS
Plenary *Ryszard LOBINSKY, Joanna SZPUNAR*

09.30 – 10.00 HETEROELEMENT SPECIFIC DETECTION OF BIO-MOLECULES USING ICP-MS
Invited *Andreas PRANGE*

10.00 – 10.20 *Coffee break*

ROOM A

10.20 – 11.40 **Speciation-Application**
Chair: Zoltán MESTER

10.20 – 10.40 DEVELOPMENT AND APPLICATION OF ISOTOPIC TAGS FOR INVESTIGATION OF PROTEIN EXPRESSION AND PHOSPHORYLATION USING LC-ICP-MS
E. Hywel EVANS, Andrew J. CARTWRIGHT, Pritesh PATEL, Pete MARSHALL, Jean-Claude WOLFF

10.40 – 11.00 THE ON-LINE COUPLING OF GEL ELECTROPHORESIS (GE) AND INDUCTIVELY COUPLED PLASMA-MASS SPECTROMETRY (ICP-MS)
Wolfram BRÜCHERT, Andreas HELFRICH, Jörg BETTMER

11.00 – 11.20 ACCURATE MEASUREMENT OF ISOTOPE RATIOS FROM MOLECULAR CLUSTERS IN BUTYLTIN MASS SPECTRA
Juris MEIJA, Giuseppe CENTINEO, J. Ignacio GARCIA ALONSO, Alfredo SANZ-MEDEL, Joseph A. CARUSO

11.20 – 11.40 VALIDATION OF SPECTROMETRIC METHODS IN THE FOOD SECTOR
Invited *S. CAROLI, R. CAMMARONE, S. CIARDULLO, A. COLABUCCI, M. D'AMATO, C. FRAZZOLI*

ROOM B

10.20 – 11.20 **Instrumentation**
Chair: Steve HILL

10.20 – 10.40 COMPARISON OF DRC AND HR ICP-MS TECHNIQUES IN THE DETERMINATION OF PLATINUM IN URINE
Sandro SPEZIA, Giovanni FORTE, Beatrice BOCCA, Anna GATTI, Giovanna MINCIONE, Anna RONCHI, Paolo BAVAZZANO, Alessandro ALIMONTI, Claudio MINOIA

10.40 – 11.00 EXPLOITING THE BENEFITS OF MULTI-COLLECTOR ICP-MS FOR NOVEL ISOTOPE DILTUION TECHNIQUES
Ruth HEARN, Peter EVANS

11.00 – 11.20 PLASMA MASS SPECTROMETRY VERSUS THE WORLD
Mike CAMPBELL

ROOM C

10.20 – 11.20 MIP-AES
Chair: Cameron MCLEOD

10.20 – 10.40 INVESTIGATION OF INTERFERENCES CAUSED BY MATRIX ELEMENTS WITH LOW SECOND IONIZATION POTENTIAL IN INDUCTIVELY COUPLED PLASMA-ATOMIC EMISSION SPECTROMETRY
George CHAN, Gary HIEFTJE

10.40 – 11.00 IMPROVING THE PERFORMANCE OF ICP-MS FOR DIFFICULT MATRICES
Mark LANDON, Helen REID, Barry SHARP

11.00 – 11.20 APPLICATION OF MICROWAVE INDUCED PLASMA ATOMIC EMISSION SPECTROMETRY AS ELEMENT SPECIFIC DETECTOR FOR Cr(III)/Cr(VI) SPECATION ANALYSIS
György HELTAI, Balázs FEHÉR, Tibor JÓZSA, Kálmán PERCSICH

ROOM A

11.40 – 12.00 Closing Ceremony