BCEIA 2005

The 11th International Beijing Conference and Exhibition on Instrumental Analysis

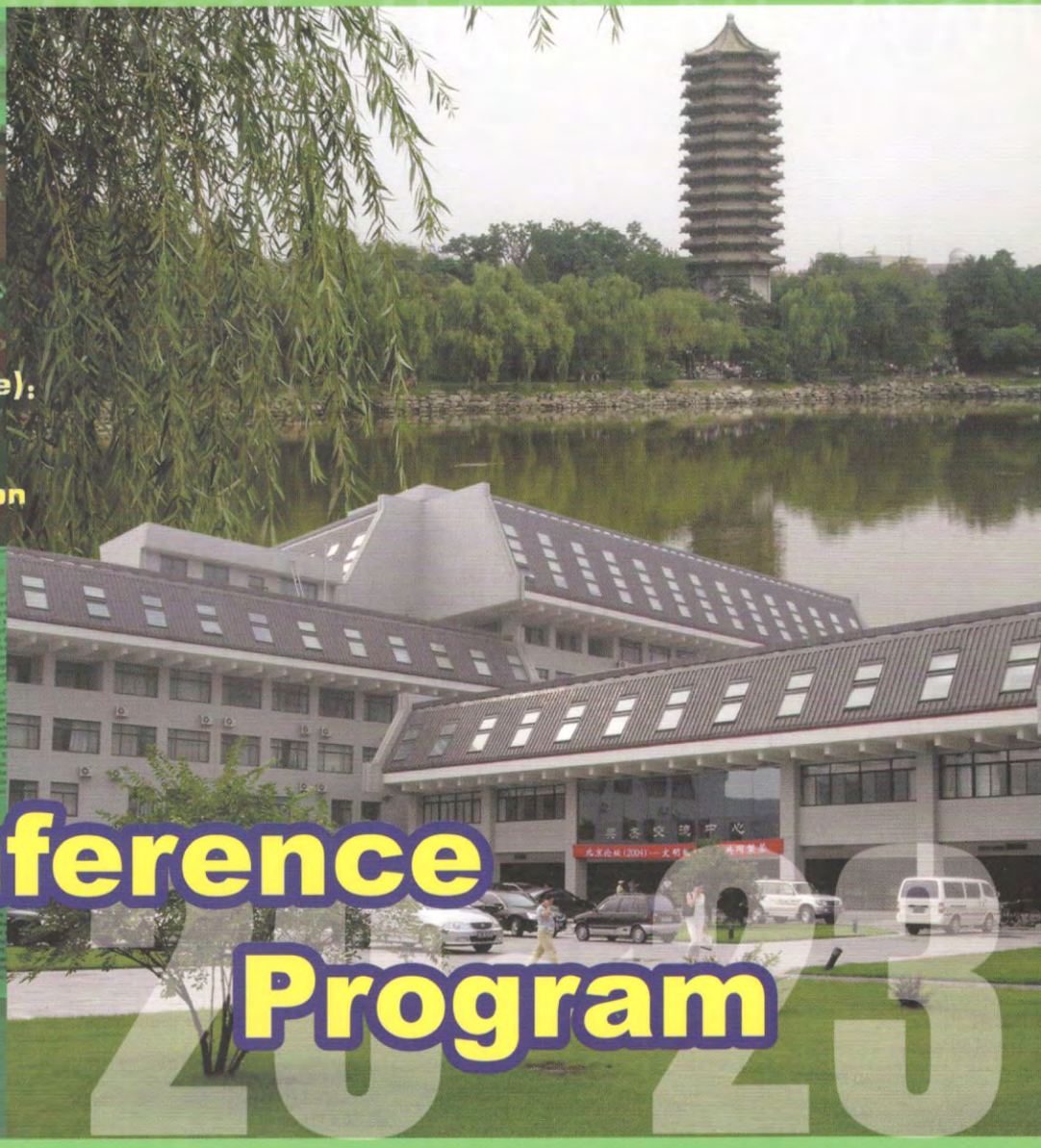


Sponsored by:
The China Association for Instrumental Analysis

Supported by:
The Ministry of Science and Technology, PRC

Undertaking (Conference):
Peking University

International Cooperation Partners:
PITTCON, USA
JAIMA, Japan
IMAG, Germany



Conference Program

The Peking University Yingjie Exchange Center

October 20–23, 2005

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FOREWORD

Welcome to the Eleventh Beijing International Conference and Exhibition on Instrumental Analysis (BCEIA 2005)

Prof. Xiguan MA, Vice-Chairman of the BCEIA Organizing Committee
September 5, 2005

The Eleventh Beijing International Conference and Exhibition on Instrumental Analysis (BCEIA 2005), sponsored by the China Association for Instrumental Analysis and approved by the Ministry of Science and Technology, China, will take place as scheduled on October 20 to 23, 2005 with its conference at Peking University and its exhibition at Beijing Exhibition Center, and with Dr. Yanhua LIU, Vice Minister of the Ministry of Science and Technology, China, as its Congress Chairman, Prof. Peichang LU, Academician, Chinese Academy of Sciences, as its Chairman of Scientific Committee and Mr. Hua YANG, former President of the China Association for Instrumental Analysis, as its Chairman of Organizing Committee.

Beginning from 1985, the BCEIA, a biennial event, has been successively and successfully held for ten times. It is this year the worth celebrating 20th anniversary of BCEIA. Over the past twenty years, we have joyfully seen BCEIA, becoming increasingly successful, having achieved great progress under the support and care from all walks of life at home and abroad, and having made its valuable contribution to promoting the connection between domestic and foreign instrument manufacturers and their users, strengthening the academic exchange between domestic and foreign scientists and pushing forward the development of instrument industry of our country.

BCEIA of this round has the following features:

1. The scale of instrument exhibition larger than any of the previous events, with total of five exhibition halls occupying an area of 14,000 square meters and an increase of 20% over the previous one.
2. The domestic and foreign instrument exhibitors showing very active participation with all the booths basically booked early six months before and with significant increase of exhibitors from Europe, particularly Spain, Germany and UK.
3. Starting from this round, the Conference of BCEIA will be held at Peking University and Tsinghua University alternatively.
4. Closer international communication and cooperation. This year, the PITTCON (Pittsburgh Conference of Analytical Chemistry and Applied Spectroscopy) of the United States, the JAIMA (Japan Analytical Instrument Manufacturer Association) of Japan and the IMAG (Germany International Group of Trade and Exhibition) of Germany have decided to send their delegations to join the BCEIA 2005.

This round of BCEIA Conference will proceed with a plenary session and separate sub-sessions of eight fields of Electron Microscopy & Material Sciences, Mass Spectrometry, Spectroscopy, Chromatography, Magnetic Resonance, Electroanalytical Chemistry, Life Science and Environmental Analysis. The plenary session will feature specially invited review lectures on the foreseeable future of various fields of instrumental analysis given by six internationally prominent scientists. There will be around 400 scholars attending with 459 contributions, one third of which made by foreign counterparts.

With respect to the exhibition on analytical instrument, this year, BCEIA will enjoy unprecedented participation of domestic and foreign exhibitors with larger scale than the previous one. There will be 245 domestic and foreign analytical instrument manufacturers, one third of which being foreign, setting up 430 booths, showing their latest developed high level products, including instruments, devices & materials, agents, softwares and services etc. There will be influential magazines, publishers and web companies on analytical instrument participating. During the exhibition, there will also be fairly large scale "Symposium on applied technology of analytical instrument", "Ceremony of awarding BCEIA gold medal for outstanding home made analytical instruments", "Technical exchange seminar" and "Exhibition on achievement of home made analytical instrument" taking place.

We believe that BCEIA 2005 will be an exceptionally grand occasion with larger scale and higher level. We will be warmly welcoming guests from scientific research organizations, schools of high learning, factories, enterprises and departments of administration of science and technology through out the country to BCEIA 2005 then!

ORGANIZATION

President:

Mr. Yanhua LIU	Vice Minister of Ministry of Science and Technology, PRC

Organizing Committee:

Chairman:

Mr. Hua YANG	Former President of China Association for Instrumental Analysis (CAIA)

Vice Chairman:

Prof. Shunchang WANG	Vice President and Secretary General of CAIA
Prof. Xiguan MA	Standing Member of CAIA
Prof. Peichang LU *	Dalian Institute of Chemical Physics, CAS

Scientific Committee:

Chairman:

Prof. Peichang LU *	Dalian Institute of Chemical Physics, CAS

Vice-Chairman:

Prof. Chaohui YE*	Institute of Physics and Mathematics, Wuhan Branch of CAS

Members:

Prof. Xian CHEN	University of California at Los Angeles
Prof. Zhaolun FANG*	Northeastern University
Prof. Benli HUANG*	Xiamen University
Prof. Fuchu HE*	National Center of Biomedical Analysis
Prof. Guofan JIN*	Tsinghua University
Prof. J-M KAUFFMANN	Free University of Brussels
Prof. Jianhua LIN	Peking University
Prof. Koichi TANAKA	Shimadzu Corporation
Prof. Erkang WANG*	Changchun Institute of Applied Chemistry, CAS
Prof. Fusheng WEI*	China National Environmental Monitoring Center
Prof. Hengqiang YE*	Institute of Metal, CAS
Prof.Yukui ZHANG*	Dalian Institute of Chemical Physics, CAS
Prof. Ze ZHANG*	Beijing Institute of Technology

**Academician, Chinese Academy of Sciences (CAS) or Chinese Academy of Engineering (CAE)*

Program Committee Office:

Organizer:

Prof. Xinxiang ZHANG	Peking University
Prof. Xinrong ZHANG	Spectroscopy, Tsinghua University

Members:

Prof. Zeper ABLIZ	Institute of Materia Medica, CAMS & Peking Union Medical College
Prof. Yi CHEN	Chromatography, Institute of Chemistry, CAS
Prof. Guibin JIANG	Environmental Analysis, Research Center for Eco-Environmental Sciences, CAS
Prof. Zhuoran LIN	Electron Microscopy & Material Sciences, Institute of geology, China Seismological Bureau
Prof. Xiaohong QIAN	Life Science, National Center of Biomedical Analysis Beijing
Prof. Bin XIA	Magnetic Resonance, Peking University
Prof. Xiurong YANG	Electroanalytical Chemistry, Changchun Institute of Applied Chemistry, CAS

Academician, Chinese Academy of Sciences (CAS) or Chinese Academy of Engineering (CAE)

技术交流日程表 SEMINAR SCHEDULE

10月20日 下午

公司名称	交流内容	讲演人	交流厅号
通微（上海）分析技术有限公司 Unimicro (Shanghai) Technologies Co., Ltd.	1. 加压毛细管电色谱技术及应用	1. **阎超 博士** 美国通微技术股份有限公司董事长兼CEO 中科院大连化物所 研究员 博士生导师	A
	2. 加压毛细管电色谱最新进展	2. **黄晓晶 博士** 通微（上海）分析技术有限公司 应用研发部经理	
	3. 快速微径液相色谱	3. **王秀丽** 通微（上海）分析技术有限公司 市场部经理	
	4. 中低压制备色谱	4. **王秀丽** 通微（上海）分析技术有限公司 市场部经理	
大连华洋分析仪器有限公司 DHS instrument	1. 圆二色光谱仪的最新应用进展 The New Application of Circular Dichroism	1. 齐爱华 总经理 Ms. Jenny Qi *13: 30*	B
	2. 手性拆分液相色谱系统 Chiral separation HPLC system	2. 李荣兴 先生 Mr. Max Lee *14: 10*	
	3. 显微红外在生产检测之应用 Micro FT/IR in QC	3. 李荣兴 先生 Mr. Max Lee *15: 00*	
	4. 快速动力学分析在生命科学领域的应用 Rapid Kinetics Application in life sciences	4. 齐爱华 总经理 Ms. Jenny Qi *15: 30*	
热电（上海）科技仪器有限公司 Thermo Electron (Shanghai) Technologies & Instruments Co. Ltd.	2005年度新产品发布会		1

10月21日 上午

公司名称	交流内容	讲演人	交流厅号
天美公司/Ciphergen	表面增强蛋白芯片（SELDI-TOF）质谱系统在肿瘤早期诊断中应用	Dr. Martin Verhoef	A
Renishaw plc, 雷尼绍（香港）有限公司	Development of Laser Micro-Raman new technique and applications 激光显微拉曼光谱技术的新发展及其应用	杨延勇 博士	B
慕尼黑展览（上海）有限公司 Munich Trade Fairs (Shanghai) Co., Ltd.	新闻发布会		1

10月21日 下午

公司名称	交流内容	讲演人	交流厅号
岛津国际贸易（上海）有限公司 SHIMADZU INTERNATIONAL TRADING(SHANGHAI)CO., LIMITED	GC、HPLC 最新分离技术的介绍 ——重点介绍光学异构体的分析、糖、高分子分析用聚合物柱、GC 毛细管柱——		A
	New Developments in Column Technology	RESTEK Corporation Dr. Eberhardt Kuhn	
大连依利特分析仪器有限公司 Dalian Elite Analytical Instruments Co., Ltd.(DEAIC)	Enhanced Sensitivity and Quantitation by Obtaining Symmetrical Peak Shapes	Doolan Kevin Internation Sales Manager Thermo Electron	B
沃特斯中国有限公司／活德国际贸易（上海）有限公司 Waters China Limited	Waters 分析技术系统解决方案	舒　放	1
	Waters UPLC™: 重新定义分离科学	安　蓉　女士	
	Waters 质谱技术最新进展	蒋宏键　先生	
	数据管理，实验室面临的新挑战	郭正非　先生	
	第二代杂化颗粒柱技术: 连接液相色谱科技的今天和未来	吴园生　先生	

10月22日 上午

公司名称	交流内容	讲演人	交流厅号
北京瑞多科技发展有限公司 Beijing R&D Technology Co., Ltd.	关于快速气相色谱-----电子鼻技术。	刘金中总经理和林博士	A
德国耶拿分析仪器股份公司 Analytik Jena AG	原子吸收光谱的最新技术革命-----连续光源原子吸收及其应用	Mr.Werner Schrader 德国耶拿分析仪器股份公司　副总裁	B
	应对 RoHS 指令的快速解决方案	赵泰先生 德国耶拿分析仪器股份公司　中国首席代表	
Seastar Chemicals Inc.	Techniques and Tools for Trace Metal Analysis	**Shelley McIvor** Trace Metal Analytical Chemist/Consultant, Seastar Chemicals Inc.	1

10月22日 下午

公司名称	交流内容	讲演人	交流厅号
大赛璐化学工业株式会社 Daicel Chemical Industries,Ltd.	手性色谱柱的开发前沿及在手性制药领域中的应用 Frontier of Chiral Columns and Application For Pharmaceutical Industry	潘立瑞　高级研究员，博士	A
杭州英谱科技开发有限公司 Hangzhou Empower Science and Techn. Co.	毛细管多维液相色谱技术及应用 Nano-HPLC Technology and Instrumentation for Multi-Dimensional Complex Sample Applications	胡韶明 Hu Shaoming	B

10月23日 上午

公司名称	交流内容	讲演人	交流厅号
北京明尼克分析仪器设备中心	New advance of detection and monitor of trace pollutant in environment and ambient air by auto-capillary GC 国际环境和室内空气中痕量污染成分自动毛细柱色谱、痕量检测、监测技术的新进展	Dr. Frank Dorman, Manager R&D Department, Restek Corporation Dr. Frank Amiet, Presedent & CEO, ChromatoTec Inc.	A
Ulvac-PHI,INC.	最新纳米表面分析装置（AES,XPS,TOF - SIMS,D-SIMS）发展动向以及在材料研发和故障分析中的应用	王道元　工学博士 亚洲课课长兼 Senior Lab Scientist	B
北京佳仪分析设备有限公司 JAI-CHINA Co., Ltd.	居里点裂解技术的应用 Curie Point Pyrolysis application	金熹高教授（Xigao Jin)中科院化学所教授 大栗直毅博士(Dr.Naoki Oguri）日本分析工业株式会社董事长	1

第十一届 BCEIA 期间“分析仪器应用技术交流会”大会报告题目及日程

Symposium on Technology in Analytical Instruments

一. 综合报告 Comprehensive Reports（10月20日下午）

主持人：阎成德教授　　地点：第五会议室

时 间 Time	报告人 Speaker	单 位 Unit	题 目 Topic
13:00-13:10	王顺昌教授 Prof.Wang shunchang	中国分析测试协会 The China Association for Instrumental Analysis	开幕词 Opening speech
13:10-13:40	Prof. Fu-Tyan Lin Dr. Fu-Mei Lin Dr. Jane N Chen	美国匹兹堡会议代表团 Delegation of PITTCON	分析化学与应用光谱学的匹兹堡会议——57年的历史与展望 The Pittsburgh Conference on Analytical Chemistry and Applied Spectroscopy-57 Years and Beyond
13:40-14:10	张　泽院士 Prof. Ze Zhang	北京工业大学 Beijing University of Technology	磁隧道结超薄膜材料的电子全息研究 Holography Study on Magnetic Tunneling Junction Ultra Thin Films
14:10-14:40	金钦汉教授 Prof. Qinhan Jin	吉林大学 Institute of Miniature Analytical Instrumentation, College of Chemistry, Jilin University; Jilin Province Research Center of Engineering and Technology for Spectral Analytical Instruments, Jilin University	几种有广阔应用前景的分析新技术 A Few Novel Promising Analytical Techniques
14:40-15:10	王海舟教授 Prof. Wang Haizhou	国家钢铁材料分析中心 Central Iron and Steel Research Institute	原位统计分布分析技术 Original Position Statistic Distribution Analysis - New Analytical Method in the Research and Quality Evaluation of Process Metallurgy and metal materials
15:10-15:40	江桂斌教授 Prof. Guibin Jiang	中科院生态环境研究中心环境化学与生态毒理学国家重点实验室 State Key laboratory of Environmental Chemistry and Ecotoxicology, Research Center for Eco-Environmental Sciences, Chinese Academy of Sciences	有机金属化合物形态分析 Speciation Analysis of Organometallic Compounds

二. 石油化工 Petroleum and Chemical industry（10月21日上午）

主持人：苏焕华教授　地点：第四会议室

时 间 Time	报告人 Speaker	单 位 Unit	题 目 Topic
9:00-9:30	杨海鹰教授 Prof. Yang Haiying	中石化石油化工科学研究院 Research Institute of Petroleum Processing, SINOPEC	石油和石化分析中气相色谱技术的应用与发展探讨 Application and Development of Gas Chromatography Technology in Petrochemical Analysis
9:30-10:00	管振喜博士 Dr. Guan Zhenxi	Agilent 公司 Agilent Technologies Co., Ltd.(China)	Agilent 微流路二维气相色谱（中心切割）技术在复杂石化分析中的应用 Agilent Micro Fluidic 2D GC (Heart Cutting)for the analysis of individual components in complex petrochem samples
10:00-10:30	杜　岩博士 Dr. Du Yan	AC 分析控制公司 AC Analytical Controls BV	炼油石化工业标准进展 Recent Developments in Standard Test Methods For Fuels
10:30-11:00	陈宇东博士 Dr. Cheng YuDong	Waters 公司 Waters China Ltd.	气相色谱串联质谱在石油勘探中生物标志物的应用 Characterization of Biomarker in Crude Oils by GC/MS/MS
11:00-11:30	袁洪福教授 Prof. Yuan Hongfu	中石化石油化工科学研究院 Research Institute of Petroleum Processing, SINOPEC	高效近红外光谱分析技术与展望 Prospects for High Throughput Analytical Technique of Near Infrared Spectroscopy

三. 材料 Materials（10月21日下午）

主持人: 孙泽明教授　　地点: 第四会议室

时 间 Time	报告人 Speaker	单 位 Unit	题 目 Topic
13:00-13:30	张　中教授 Prof. Zhang Zhong	国家建材分析测试中心 China Building Materials Academy	现代分析测试技术在建筑材料研发与生产中的应用 Application of modern testing technologies in research, development andmanufacturing of building materials
13:30-14:00	金熹高教授 Prof. Xigao Jin	中科院化学所 State Key Laboratory of Polymer Physics and Chemistry, Institute of Chemistry, The Chinese Academy of Sciences	裂解色谱分析高分子材料 Pyrolysis GC-MS and Polymer Analysis
14:00-14:30	谢国清博士 Dr. Xie Guo Qing	Millipore 公司 Millipore China Limited	超纯水在 ICP-MS 等仪器分析中的应用 Water Purification Technologies and Ultrapure Water for the Application of ICP-MS
14:30-15:00	陈玉红博士 Dr. Chen Yuhong	Agilent 公司 Agilent Technologies Co., Ltd.(China)	ICP-MS 技术在高纯材料分析中的应用 The application of Agilent ICP-MS in the high purity materials analysis fields
15:00-15:30	伍　星教授 Prof. Wu Xing	国家有色及电子材料测试中心 Beijing General Research Institute for Non-ferrous Metals	微柱分离 ICP-MS 测定高纯稀土中痕量稀土杂质研究 Micro-column Separation-ICP-MS Determination of Trace Rare Earth Impurities in High Purity Rare Earth Matrix

四. 药物与生化 Medicine and Biochemistry（10月21日上午）

主持人: 张学敏教授　　地点: 第五会议室

时 间 Time	报告人 Speaker	单 位 Unit	题 目 Topic
9:00-9:30	杨松成教授 Prof. Song-Cheng Yang	国家生物医学分析中心 National Center of Biomedical Analysis	质谱在重大疾病诊断中的应用 Application of Mass Spectrometry to Disease diagnosis
9:30-10:00	安　蓉博士 Dr. An Rong	Waters 公司 Waters China Ltd.	超高效液相色谱（UPLC）：重新定义液相色谱 Waters Ultra Performance LCTM: Separation Science Redefined
10:00-10:30	潘峰云博士 Dr. Pan Fengyun	岛津公司 Shimadzu International Trading(Shanghai) Co.,Ltd.	利用在线去蛋白系统测定直接进样方式的血浆血清中药物含量 Direct Injection of Plasma and Serum for the Determination of Drug Compounds Using On-line Deproteination System (Co-Sense for BA System)
10:30-11:00	张庆合博士 Dr. Qinghe Zhang	大连依利特公司 Dalian Elite Analytical Instruments Co., LTD.(DEAIC)	二维液相色谱仪器系统及应用 Instrument and Applications of Comprehensive Two-dimentional Liquid Chromatography
11:00-11:30	牛映斗教授 Prof. Yingdou Niu	北京东西电子 Beijing East & West Analytical Instruments, Inc. (Beijing East & West Electronics Institute)	原子吸收用高精度石墨炉分析系统 High-accuracy Graphite Furnace Analysis System for AAS

四. 药物与生化 Medicine and Biochemistry（10月21日下午） 主持人：李 侬教授 地点：第五会议室

时 间 Time	报告人 Speaker	单 位 Unit	题 目 Topic
13:00-13:30	刘霁欣博士 Dr. Liu Jixin	北京吉天仪器有限公司 Beijing Titan instrument company	氢化物发生原子荧光在生物样品测定和形态分析中的应用 Application of hydride generation-atomic fluorescence spectrometry: quick determination of lead in blood and arsenic speciation analysis
13:30-14:00	李 浪博士 Dr. Li Lang	戴安公司 Dionex China Ltd	新型纳升级液相色谱（Nano-HPLC）及其应用 New technic and application of Nano LC
14:00-14:30	谭 虎博士 Dr. Tan Hu	Millipore 公司 Millipore China Limited	超纯水在 LC-MS 等仪器分析中的应用 Water Purification Technologies and Ultrapure Water for the Application of LC-MS
14:30-15:00	王 颖博士 Dr. Wang Ying	Agilent 公司 Agilent Technologies Co., Ltd.(China)	液相色谱／电喷雾－飞行时间质谱在药物分析中的应用 HPLC/ES-TOF applications in pharmaceutical analysis
15:00-15:30	张金兰博士 Dr. Zhang jin lan	国家药物及代谢产物分析中心 National Research Center for Analysis of Drugs and Metabolites	中草药代谢研究 Metabolism of Traditional Chinese Medicine

五. 营养与食品安全 Nutrition and Safe of Food（10月22日上午） 主持人：蒋士强教授 地点：第五会议室

时 间 Time	报告人 Speaker	单 位 Unit	题 目 Topic
9:00-9:30	曹 喆博士 Dr. Cao Zhe	Agilent 公司 Agilent Technologies Co., Ltd.(China)	保留时间锁定和解卷积报告软件在食品、环境分析中的应用 Retention time locking and deconvolution reporting software applications of food safety and environmental analysis
9:30-10:00	谭 虎博士 Dr. Tan Hu	Millipore 公司 Millipore China Limited	超纯水在 LC-MS 等仪器分析中的应用 Water Purification Technologies and Ultrapure Water for the Application of LC-MS
10:00-10:30	梁 峰博士 Dr. Liang Feng	Agilent 公司 Agilent Technologies Co., Ltd.(China)	液相色谱／质谱技术在农药及兽药检测中的应用 LC/MS applications on pesticide residue and veterinary drug residue analysis
10:30-11:00	李月琪博士 Dr. Li Yueqi	岛津公司 Shimadzu International Trading(Shanghai) Co.,Ltd	对食品中还原糖高灵敏、高选择的检测方法 Selective and sensitive method for the determination of reducing sugar in food sample
11:00-11:30	董方霆博士 Dr.Fang-Ting Dong	国家生物医学分析中心 National Center of Biomedical Analysis	保健品中未加申明的西药检测 Rapid Determination of uncleared Medicine in Hypoglycaemic Capsules of Chinese Herbal Formulae

五. 营养与食品安全 Nutrition and Safe of Food（10月22日下午） 主持人：汪正范教授 地点：第五会议室

时 间 Time	报告人 Speaker	单 位 Unit	题 目 Topic
13:00-13:30	庞国芳教授 Prof.GUO-FANG PANG	秦皇岛进出口检验检疫局 Qinhuangdao Entry-Exit Inspection and Quarantine Bureau	农产品中 400 多种农药残留同时检测技术与四项国家标准的研究 Study on Analysis Technique and Four National Standard of P.C. China for Simultaneous Determination of More Than 400 Pesticide Residues in Agricultural Products
13:30-14:00	蒋宏健博士 Dr. Jiang HongJian	Waters 公司 Waters China Ltd.	UPLC™-MS-MS 能降低违禁物的检出限吗？ Can UPLC™/MS/MS reduce the Limit of Detection (LOD) level of contraband?
14:00-14:30	马 利博士 Dr. Ma Li	岛津公司 Shimadzu International Trading(Shanghai) Co.,Ltd.	食品中砷的形态分析技术最新进展 A survey of arsenic species in food
14:30-15:00	克利姆博士 Dr. Kliment Moshkin	Lumex 公司 Dr. Kliment Moshkin	分子荧光法用于测定食品中的苯并芘、黄曲霉毒素、硝苯胺类、镉、铜、铅、锌、锡、硒。 Determination of aflatoxins, benz[a]pyrene, nitrosamines, selenium and tin in food and feed stuff by use of HPLC with fluorometric detector
15:00-15:30	关亚风教授 Prof. Yafeng Guan	中科院大连化物所 Dalian Institute of Chemical Physics, Chinese Academy of Sciences	几种固态萃取技术在农产品、食品安全检测中的应用 Novel Types Solid Phase micro-Extraction and Their Application in Environmental and Food Analysis

六 生态与环境资源 Ecology, Environment and Resources（10月22日上午）

主持人：傅若农教授　　地点：第四会议室

时 间 Time	报告人 Speaker	单 位 Unit	题 目 Topic
9:00-9:30	刘文齐教授 Prof. Wenqi Liu	中国科技大学理化科学中心 Center for physical ,University of Science and Technology of China	原子荧光光谱分析在极地环境研究中的应用 The application about hydride generation atomic flourescence spectrometry in polar environment and safe of food and drug
9:30-10:00	景士廉教授 Prof. Shilian Jing	北京东西电子 Beijing East & West Analytical Instruments, Inc. (Beijing East & West Electronics Institute)	便携式气相色谱仪及其应用 Features of various portable GC (General introduction of portable GC)
10:00-10:30	李中玺教授 Prof. Li Zhong Xi	北京海光仪器公司 Beijing Haiguang Instrument Co.	断续流动在线分离富集－蒸汽发生原子荧光光谱法测定复杂环境样品中的痕量镉 The Discontinuous flow (Intermittent flow) Separation and Enrichment--Determination of Cd in the Complicated Sample by Steam-Generation Atomic Fluorescence Spectroscopy
10:30-11:00	秦亚萍博士 Dr. Qin Yaping	岛津公司 Shimadzu International Trading(Shanghai) Co.,Ltd.	应用 Compound Composer-GCMS 同时分析数据库快速筛查环境中的 600 种污染物 Fast screening of 600 kinds of pollutant in environmental by application Compound Composer-GCMS simultaneity analysis database
11:00-11:30	牟世芬教授 Prof. Mou Shi-fen	戴安公司 Dionex China Ltd.	21 世纪的新技术－只用水的离子色谱 New technic for Century 21th----Reagent Free Ion Chromatogram

六. 生态与环境资源 Ecology、Environment and Resources（10月22日下午）

主持人：李玉武教授　　地点：第四会议室

时 间 Time	报告人 Speaker	单 位 Unit	题 目 Topic
13:00-13:30	宋顶海高工 Eng. Song Ding Hai	北京科创海光仪器公司 Beijing Kechaung Haiguang Instrument Co., Ltd	ICP-AES 法测定岩石中的铍、铬、锰、钒、锆 ICP-AES Determination of Be、Cr、Mn、V and Zr Content in Rocks Samles
13:30-14:00	谢国清博士 Dr. Xie Guo Qing	Millipore 公司 Millipore China Limited	超纯水在 ICP-MS 等仪器分析中的应用 Water Purification Technologies and Ultrapure Water for the Application of ICP-MS
14:00-14:30	陈登云博士 Dr. Chen Dengyun	Agilent 公司 Agilent Technologies Co., Ltd.(China)	ICP-MS 联机技术在环境、食品及生化领域中的应用 The hyphenated technologies of Agilent ICP-MS for the speciation analysis in the environmental, food safety and biochemical applications
14:30-15:00	齐文启教授 Pro. Qi Wenqi	中国环监总站 China National Environmental Monitoring Center	内分泌干扰物及其监测技术 Endocrine interferrnt and its Monitor technique
15:00-15:30	黄玉茹教授 Pro. Huang Yuru	国家环境分析中心 National Research Center for Environmental Analysis and Measurement	难降解有机化合物分析技术 Analytical Techniques in Environmental Monitoring of Persistent Organic Pollutants (POPs)

AGENDA OF PLENARY LECTURES
Site: Sunny Hall

Oct. 20, 2005 AM (Thursday)

Presiding: Prof. Yuanhua SHAO

8:30-8:40		Address on Behalf of Peking University by Jianhua LIN
8:40-8:50		Opening Speech by Peichang LU
Presiding		**Prof. Erkang WANG**
9:00-9:45	B1	New Developments in Biological Mass Spectrometry : Ion/ion Reactions and Their Application to the Analysis of Biopolymer Mixtures Prof. Scott A. MCLUCKEY Purdue University, USA
9:50-10:10		**Coffee Break**
Presiding		**Zhaolun FANG**
10:10-10:55	C1	Metallomics as Integrated Biometal Science Prof. Hiroki HARAGUCHI Nagoya University, Japan
11:00-11:45	D1	Molecular Imprinting: Applications in Chromatography Prof. Klaus MOSBACH Lund University, Sweden

Oct. 21, 2005 AM (Friday)

Presiding Prof. Yukui ZHANG

8:30-9:15	A1	How to Reveal the Structural Details not Seen on the Electron Micrographs Prof. Fanghua LI Institute of Physics, Chinese Academy of Science, China
9:20-10:05	E1	Beyond 3D Structure: Insights from NMR into Protein Function and Flexibility Prof. Peter E. WRIGHT The Scripps Research Institute, USA
10:10-10:55		**Coffee Break**
Residing		**Prof. J-M KAUFFMANN**
11:00-11:45	F1	Organized Layered Interfaces for Sensoric and Molecular Machinery Application Prof. I. WILLNER Hebrew University Jerusalem, Israel

AGENDA OF SESSIONS
A ELECTRON MICROSCOPY & MATERIAL SCIENCES
China – Japan – Korea Joint Symposium on Advanced Electron Microscopy Incorporated

<table>
<tr><th>Date</th><th>Time</th><th colspan="2">Location & Activities</th></tr>
<tr><td>Oct.19
(Wed.)</td><td>9:00-
21:00</td><td colspan="2">Lobby, Beijing Yingjie Exchange Center, Peking University
Registration</td></tr>
<tr><td rowspan="2">Oct.20
(Thu.)</td><td>AM.</td><td colspan="2">Beijing Yingjie Exchange Center, Peking University
Opening Speech: Peichang LU
Address on behalf of Peking University: Jianhua LIN
BCEIA 2005 General Plenary Session
Presiding: Erkang WANG
Zhaolun FANG B1, C1, D 1</td></tr>
<tr><td>PM</td><td colspan="2">Exhibition Visiting</td></tr>
<tr><td rowspan="4">Oct.21
(Fri.)</td><td>AM</td><td colspan="2">Beijing Yingjie Exchange Center, Peking University
BCEIA 2005 General Plenary Session
Presiding: Yukui ZHANG
J-M KAUFFMANN A1, E1, F1</td></tr>
<tr><td colspan="2">VIP Room I (first floor of the center)</td><td>Corridor outside the VIP Room I (Poster Session)</td></tr>
<tr><td>PM</td><td>Presiding: Lian-Mao PENG (including opening remarks)
Kunio TAKAYANAGI
A3, A4, A5, A6, A2, A7, A8, A13, A21, A22</td><td rowspan="3">A33
A30
A31
A18
A19
A28
A41</td></tr>
<tr><td rowspan="2">Oct.22
(Sat.)</td><td>AM</td><td>Presiding: Yoshitsugu TOMOKIYO
Jing ZHU
A10, A11, A12, A14, A15, A16, A17</td></tr>
<tr><td>PM</td><td>Presiding: Chan Gyung PARK
Huamin ZOU
A9, A42, A27, A20, A32,A25, A26, A23, A24, A34</td></tr>
<tr><td rowspan="2">Oct.23
(Sun.)</td><td>AM</td><td>Presiding: Hu-Chul Lee
Lian-Mao PENG (including closing remarks)
A35, A36, A38, A37, A39, A40, A29</td></tr>
<tr><td>PM</td><td colspan="2">Conference Closed</td></tr>
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AGENDA OF SESSIONS
B MASS SPECTROMETRY

Date	Time	*Location & Actives*
Oct.19 (Wed.)	9:00-21:00	*Lobby, Beijing Yingjie Exchange Center, Peking University* ***Registration***
Oct.20 (Thu.)	AM	*Beijing Yingjie Exchange Center, Peking University* *Opening Speech: Peichang LU* *Address on behalf of Peking University: Jianhua LIN* *BCEIA 2005 General Plenary Session* *Presiding: Erkang WANG* *Zhaolun FANG B1,C1,D1*
	PM	*Exhibition Visiting*
Oct.21 (Fri.)	AM	*Beijing Yingjie Exchange Center, Peking University* *BCEIA 2005 General Plenary Session* *Presiding: Yukui ZHANG* *J-M KAUFFMANN A1,E1,F1*
	Meeting Room No.1 Second Floor Corridor (Poster Session)	
	PM	*Sub-session: OPENING ADDRESS* *Presiding: Mitsuo TAKAYAMA and Shuying LIU* *B02, B14, B15, B03, B09, B16*
Oct.22 (Sat.)	AM	*Presiding: Zongwei CAI and Armand LATTES* *B06, B12, B20, B19, B04, B05, B17*
	PM	*Presiding: Mutian WU and Christopher TYE* *B08, B10, B24, B07, B11, B21, B25*
Oct.23 (Sun.)	PM	*Presiding: Zhili LI and Chinkai MENG* *B18, B13, B26, B22, B23*
	PM	*Conference Closed*

AGENDA OF SESSIONS

C SPECTROSCOPY

Date	Time	Location & Activities
Oct.19 (Wed.)	9:00-21:00	Lobby, Beijing Yingjie Exchange Center, Peking University **Registration**
Oct.20 (Thu.)	AM	Beijing Yingjie Exchange Center, Peking University Opening Speech: Peichang LU Address on behalf of Peking University: Jianhua LIN BCEIA 2005 General Plenary Session Presiding: Erkang WANG Zhaolun FANG B1, C1, D 1
	PM	Exhibition Visiting
Oct.21 (Fri.)	AM	Beijing Yingjie Exchange Center, Peking University BCEIA 2005 General Plenary Session Presiding: Yukui ZHANG J-M KAYFFMANN A1, E1, F1
	Meeting Room No.8 Second Floor Corridor (Poster Session)	
	PM	Sub-session :OPENING ADDRESS Presiding: Norio TERAMAE A. SANZ-MEDEL C2, C10, C11, C12, C13
Oct.22 (Sat.)	AM	Presiding: Bin HU, Qiuquan WANG C4, C14, C5, C17, C18,
	PM	Presiding: Jinming LIN, Norio TERAMAE C6, C19, C20, C21, C7, C22, C23, C24
Oct.23 (Sun.)	AM	Presiding: Ronghua YANG, Huimin MA C8, C25, C9, C26, C27
	PM	Conference Closed

AGENDA OF SESSIONS
D CHROMATOGRAPHY

<table>
<tr><th>Date</th><th>Time</th><th colspan="2">Location & Activities</th></tr>
<tr><td>Oct.19
(Wed.)</td><td>9:00-
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<tr><td rowspan="2">Oct.20
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Opening Speech: Peichang LU
Address on Behalf of Peking University: Jianhua LIN
BCEIA 2005 General Plenary Session
Presiding: Erkang WANG
Zhaolun FANG B1, C1, D 1</td></tr>
<tr><td>PM</td><td colspan="2">Exhibition Visiting</td></tr>
<tr><td rowspan="4">Oct.21
(Fri.)</td><td>AM</td><td colspan="2">Beijing Yingjie Exchange Center, Peking University
BCEIA 2005 General Plenary Session
Presiding: Yukui ZHANG
J-M KAUFFMANN A1, E1, F1</td></tr>
<tr><td colspan="2">Press Hall (first floor of the center)</td><td>Corridor outside the Press Hall (Poster Session)</td></tr>
<tr><td>PM</td><td colspan="2">Presiding: Yukui Zhang, Nobuo Tanaka
D2, D3, D4,D5,D6, D7, D8, D9, D10</td></tr>
<tr><td rowspan="2">Oct.22
(Sat.)</td><td>AM</td><td colspan="2">Presiding: Michael .J. SCHÖNING & Yin Fa MA
Werner ENGEWALD & A. CIFUENTES
D11, D12,D13,D14,D15,D16,D17, D18</td></tr>
<tr><td>PM</td><td colspan="2">Presiding: Da Yong CHEN & Yi CHEN
David GRAINGER & Chao YAN
D19, D20, D21, D22,D23,D24,D25,D26</td></tr>
<tr><td rowspan="2">Oct.23
(Sun.)</td><td>AM</td><td colspan="2">Presiding: Hu Wei LIU & Guo Wang XU
D27,D28,D29,D30,D31,D32,D33,D34</td></tr>
<tr><td>PM</td><td colspan="2">Conference Closed</td></tr>
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Time: Oct. 21, 2005
15:30-17:00
Abstract No.
D35~D103

AGENDA OF SESSIONS

E MAGNETIC RESONANCE

Date	Time	Location & Activities
Oct.19 (Wed.)	9:00-21:00	Lobby, Beijing Yingjie Exchange Center, Peking University **Registration**
Oct.20 (Thu.)	AM.	Beijing Yingjie Exchange Center, Peking University Opening Speech: Peichang LU Address on Behalf of Peking University: Jianhua LIN BCEIA 2003 General Plenary Session Presiding: Erkang WANG Zhaolun FANG B1, C1, D 1
	PM	Exhibition Visiting
Oct.21 (Fri.)	AM	Beijing Yingjie Exchange Center, Peking University BCEIA 2003 General Plenary Session Presiding: Yukui ZHANG J-M KAUFFMANN A1, E1, F1
	Meeting Room No.3 Second Floor Corridor (Poster Session)	
	PM	Sub-session :OPENING ADDRESS Presiding: Bin XIA E3, E4, E5, E7
Oct.22 (Sat.)	AM	Presiding: Changwen JIN E6, E8, E9, E12, E13, E49,
	PM	Presiding: Ping ZHOU, Huiru TANG E10, E11, E14, E15, E16, E17, E18, E48 Conference Closed

AGENDA OF SESSIONS

F ELECTROANALYTICAL CHEMISTRY

Date	Time	Location & Activities
Oct.19 (Wed.)	9:00-21:00	Lobby, Beijing Yingjie Exchange Center, Peking University **Registration**
Oct.20 (Thu.)	AM	Beijing Yingjie Exchange Center, Peking University Opening Speech: Peichang LU Address on behalf of Peking University: Jianhua LIN BCEIA 2005 General Plenary Session Presiding: Erkang WANG Zhaolun FANG B1, C1, D 1
	Second Floor : Meeting Room No.2	
	PM	Sub-session :OPENING ADDRESS Presiding: F.I.Willner, R. Yu F3, F11,F14,F31,F15, F4
Oct.21 (Fri.)	AM	Beijing Yingjie Exchange Center, Peking University BCEIA 2005 General Plenary Session Presiding: Yukui ZHANG J-M KAUFFMANN A1, E1, F1
	Meeting Room No.2 Second Floor Corridor (Poster Session)	
	PM	Presiding: H. H. GIRAULT, H. JU F5,F6,F21,F29,F20,F13 Presiding: R. BALDWIN, X. LIN F7,F18,F24
Oct.22 (Sat.)	AM	Presiding: A. Bond, J. KONG F9, F63, F19, F23 Presiding: I.TANIGUCHI, X. YANG F2, F25, F26
	PM	Presiding: J. M. KAOFFMAN Lianghong GUO F10, F28, F32, F17 Presiding: P. UNWIN, L.MAO F16, F33, F27, F30
Oct.23 (Sun.)	PM	Exhibition Visiting
	p.m.	Conference Closed

AGENDA OF SESSIONS
G LIFE SCIENCE

<table>
<tr><th>Date</th><th>Time</th><th colspan="2">Location & Activities</th></tr>
<tr><td>Oct.19
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Opening Speech: Peichang LU
Address on Behalf of Peking University: Jianhua LIN
BCEIA 2005 General Plenary Session
Presiding: Erkang WANG
Zhaolun FANG B1, C1, D 1</td></tr>
<tr><td>PM</td><td colspan="2">Exhibition Visiting</td></tr>
<tr><td rowspan="4">Oct.21
(Fri.)</td><td>AM</td><td colspan="2">Beijing Yingjie Exchange Center, Peking University
BCEIA 2005 General Plenary Session
Presiding: Yukui ZHANG
J-M KAUFFMANN A1, E1, F1</td></tr>
<tr><td colspan="2">Meeting Room No. 4 (Second Floor)</td><td>Corridor outside the Meeting Room (Poster Session)</td></tr>
<tr><td>PM</td><td>Presiding: Siwi LIU
G1, G2, G3,G4,G5</td><td rowspan="3">G21~G41</td></tr>
<tr><td rowspan="2">Oct.22
(Sat.)</td><td>AM</td><td>Presiding: Cornelius E. UBOH
Lawrence R. SOMA
G6, G7, G8, G9, G10, G11</td></tr>
<tr><td>PM</td><td>Presiding: Qinhua Cindy RU
James J. BAO
G12, G13, G14, G15, G16,G17,G18,G19,G20
Conference Closed</td></tr>
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AGENDA OF SESSIONS
H ENVIRONMENTAL ANALYSIS

<table>
<tr><th>Date</th><th>Time</th><th colspan="2">Location & Activities</th></tr>
<tr><td>Oct.19
(Wed.)</td><td>9:00-
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Opening Speech: Peichang LU
Address on Behalf of Peking Unviersity: Jianhua LIN
BCEIA 2005 General Plenary Session
Presiding: Erkang WANG
Zhaolun FANG B1, C1, D 1</td></tr>
<tr><td>PM</td><td colspan="2">Exhibition Visiting</td></tr>
<tr><td rowspan="5">Oct.21
(Fri.)</td><td>AM</td><td colspan="2">Beijing Yingjie Exchange Center, Peking University
BCEIA 2005 General Plenary Session
Presiding: Yukui ZHANG
J-M KAUFFMANN A1, E1, F1</td></tr>
<tr><td colspan="2">Meeting Room No. 6 (Second Floor)</td><td>Second Floor Corridor
(Poster Session)</td></tr>
<tr><td>PM</td><td>Presiding: Guibin JIANG
Purnendu K. (Sandy) DASGUPTA
H24, H60, H53, H14, H43, H28</td><td rowspan="3">H15, H63, H47, H01, H13, H06, H19, H35, H48, H20, H25, H49, H50, H45, H36, H02, H08, H03, H16, H54, H17, H04, H55, H65, H56, H09, H57, H05, H30, H29, H18, H33, H38, H39, H34, H40, H10, H46, H58, H42, H44</td></tr>
<tr><td>AM</td><td>Presiding: Jan Åke JÖNSSON
K.W. Michael SIU
H62, H07, H64, H37, H26, H31, H23, H11</td></tr>
<tr><td>Oct.22
(Sat.)</td><td>PM</td><td>Presiding: Yifan LI
Jinming LIN
H22, H12, H51, H59, H41, H32, H21
Conference Closed</td></tr>
</table>

SCHEDULE OF SESSIONS
ELECTRON MICROSCOPY
Chairman: Prof. Lian-Mao PENG

Welcome to
The China – Japan – Korea Joint Symposium
on Advanced Electron Microscopy
incorporated in
BCEIA 2005

THE SYMPOSIUM
Incorporated in the Electron Microscopy & Material Sciences Sub-session under **BCEIA 2005**, **The China-Japan-Korea Joint Symposium on Advanced Electron Microscopy** is initiated by Prof. Lian-Mao Peng (Peking University, China), Prof. Y. Tomokiyo (Kyushu University, Japan) and Prof. Dongwha Kum (KIST, Korea) and sponsored by **Chinese Electron Microscopy Society**. The symposium is welcoming to the participation of all colleagues from other countries.

SCOPE
The workshop is intended to provide an international forum to bring together researchers involved in developing the advanced microscopy, investigating "hot spot" materials, including nanomaterials, biomaterials, high-Tc superconductor etc., and studying microstructure and defects in alloys and ceramics.

ORAL SESSION

Oct. 21, 2005 PM (Friday)

Site: **VIP Room I**
Chair: **Lian-Mao PENG** (including opening remarks)

1:30 A3 Electron Microscopy for Post-Nanotechnology
Kunio TAKAYANAGI (Invited)

2:00 A4 In-situ Nanofabrication of Position and Size Controlled Structures with Electron Microscopes
Kazuo FURUYA (Invited), Kazutaka MITSUISHI, Masayuki SHIMOJO*, Minghui SONG, Miyoko TANAKA and Masaki TAKEGUCHI

2:30 A5 Patterned Nanoclusters in the Doped Perovskite Oxide Films
Xiuliang MA (Invited)

3:00 A6 Novel Carbon Nanostructures Synthesized by Arc-discharge in Solution
Junjie GUO [1], Xiaomin WANG [1], Tianbao LI [1], Xuguang LIU [2], Bingshe XU

3:15-3:30 **Coffee break**

Chair: **Kunio TAKAYANAGI**

3:30 A2 In Situ Fabrication, Manipulation and Property Measurements of Nanostructures
Lian-Mao PENG (Invited)

4:00 A7 Effect of Nano-SiC Addition on Microstructure and Superconducting Property of MgB_2
T. YOSHIDOME[1], Y. TOMOKIYO[1] (Invited), H. SOSIATI[2], S. HATA[1], N. KUWANO[3], A. MATSUMOTO[4], H. HATAKEYAMA[4], H. KITAGUCHI[4], H. KUMAKURA[4]

4:30 A8 TEM Tomographic Observation of Ordered Particles in Ni-Based Ordering Alloys
Yoshitsugu TOMOKIYO[1] (Invited), Kousuke KIMURA[1], Takao HORIUCHI[2], Satoshi HATA[1] and Syo MATSUMURA[2]

4:45 A13 Structural Characterisation of Semiconductor Quantum Dots Nanostructures: A Study Using Different Electron Microscopy Techniques
Dan ZHI[1], Paul A. MIDGLEY[1], Bruce A. JOYCE[2], Don W. PASHLEY[3], Tim S. JONES[4], Andrew L. BLELOCH[5], Peter J. GOODHEW[5,6]

5:00 A21 Microstructure Investigation on TiAl alloy by Electropulsing
Jingping CUI, Manling SUI, Douxing LI

5:15 A22 Microstructure Study of $Ti_{65}Fe_{35}$ Alloy with High Strength and Ductility
Bingbing SUN, Yanling WANG, Jian XU, Manling SUI

Oct. 22, 2005 AM (Saturday)

Site: **VIP Room I**
Chair: **Yoshitsugu TOMOKIYO**

8:30 A10 Observation of Phase Separation and Deformation Behavior in Metallic Glasses
Hye Jung CHANG, Byoung Joo PARK, and Do Hyang KIM (Invited)

9:00 A11 The State-of-the-art Electron Microscopy for Development of New Semiconductor Materials
Se Ahn SONG[1] (Invited), H. BAIK[1], H. JEONG[2], C. LANG[3] and D.J.H.COCKAYNE[3]

9:30 A12 EM Studies of Misfit Strain and Structure Evolution of Self-assembled InAs/GaAs Quantum Dot Heterostructures
Hyung Seok KIM[1], Ju Hyung SUH[1], Chan Gyung PARK[1*] (Invited), Sang Jun LEE[2], Sam Gyu NOH[2], Jin Dong SONG[3], Yong Ju PARK[3], Won Jun CHOI[3] and Jung Il LEE[3]

10:00-10:15 **Coffee break**

Chair: **Jing ZHU**

10:15 A14 Grain Boundary Precipitation During Maraging of Fe-Mn-Ni Alloys
Yoon Uk HEO, Miyoung KIM and Hu-Chul LEE(Invited)

10:45 A15 Characterization of Biological Nanocomposites Using Transmission Electron Microscopy
Gyeung-Ho KIM(Invited) and Dong-Wha KUM

11:15 A16 Cross-sectional Structure and Phases of Thermal Barrier Coating Layer in High Temperature Resistant Alloys
Y. WANG, T. SUDA, S. HAYASHI, S. OHNUKI, T. NARITA

11:30 A17 JEOL JEM-2100f (S)TEM and Its Applications in Material Characterization
Jian-Guo ZHENG

Oct. 22, 2005 PM (Saturday)

Site: **VIP Room I**
Chair: **Chan Gyung PARK**

1:30 A9 In-situ Observation of Hydride Decomposition and Formation in TEM
S. OHNUKI (Invited), K. HAMADA, K. YASHIKI, T. SUDA

2:00 A42 Electron Holography Study of Barrier Shapes of Double Barrier Magnetic Tunnel Junctions
Yong WANG[1], Zhongming ZENG[1], Xiufeng HAN[1] and Ze ZHANG[2]

2:30 A27 Transmission Electron Microscopy Investigations on Layered Hexagonal Cobalt Oxides
HUAIXIN YANG, J.Q. LI*, Y.G. SHI, R.J. XIAO, X. LIU, C.J. NIE, H.F. TIAN

2:45 A20 Martensitic Transition in the $CO_{39}Ni_{33}Al_{28}$ Shape Memory Alloys
Haiying WANG[1], Z.H. LIU[2], Y.G. WANG[1], X.F. DUAN[1], and G.H. WU[2]

3:00 A** Effect of Substrate Topography on Growth of Nano-branched Structure in an Electron-beam-induced Deposition Process
Minghui SONG, Kazutaka MITSUISHI, Kazuo FURUYA

3:15-3:30 **Coffee break**

Chair: **Huamin ZOU**

3:30 A32 Cs-corrected HRTEM and Advanced STEM of Nano-structures and Interfaces
Nobuo TANAKA(Invited)

4:00 A25 Precipitation Behavior of VC Carbide in HSLA Steel
Shijian YAN*, Xiaoping LIU and Wenhuai TIAN

4:15 A26 Lithium Ordering in Llayered Li_xCoO_2 ((0.5<x≤1) with $R\bar{3}m$ Symmetry
X. LIU[1], S. J. YAN[1], H. X. YANG[2], Y. G. SHI[2], W. F. TIAN[2], W. H. TIAN[1] and J.Q. LI[2]

4:30 A23 Magnetic Property Studies of Fe-encapsulating Onion –like Fullerenes

Xiaomin WANG[1], Junjie GUO [1], Xuguang LIU [2], Husheng JIA [1], Bingshe XU [1]

4:45 A24 Structural Characters of Atomic Cluster Center and AB-initio Calculation in 5F Al-Co-Ni Decagonal Quasicrystal
Shupeng SONG[1,2], Renhui WANG[1, 2], Jianian GUI[1, 2], Liu HUIJUN[1], Jianbo WANG[1,2]

5:00 A34 HRTEM Study on Stacking Disordering in Cu_2O Quantum Dots Deposited on Multiwall Carbon Nanotubes
Jianbo WANG, Luying LI, Zhe LIU, Renhui WANG

Oct. 23, 2005 AM (Sunday)

Site: VIP Room I
Chair: Hu-Chul Lee

8:30 A35 HVEM Researches in the Korea Basic Science Institute (KBSI): Electron Tomography to Electron Crystallography
Youn-Joong KIM(Invited), Hee-Seok KWEON, Young-Min KIM, Jin-Kyu KIM, Jong-Man JEUNG

9:00 A36 Electron Microscopic Tomography with Ultra-HVEM
Akio TAKAOKA(Invited), Hirotaro MORI

9:30 A38 Multi-type Diffraction Patterns from an Individual SWCNT
Jiong ZHANG and Jing ZHU (Invited)

10:00-10:15 Coffee break

Chair: Lian-Mao PENG (including closing remarks)

10:15 A37 Determination of Bonding Charge Density in AlPdMn Icosahedral Quasicrystal by Quantitative CBED
Huamin ZOU[1,2](Invited), Fengmei YU[1], Aihua FANG[1],Jun Wang[1], Jianbo WANG[1,2], Renhui WANG[1,2]

10:45 A39 Valence Electron Distribution of Perovskite $CaCu_3Ti_4O_{12}$ by Quantitative Electron Diffraction
Lijun WU, Jincheng ZhENG, Yimei ZHU and Jonathan HANSON

11:00 A40 Sample Preparation Techniques and Gloss Phenomena in Atomic Force Microscopy*
Jie ZHU[1], SUN Run-guang[1], GAO Mei[2]

11:15 A29 Quantitative Characterization of Cross-Section Shape of Dumbbell-like Fiber by Image Analysis
Zhengmin LI[1], Min TAN[2]

POSTER SESSION

Oct. 21, 2005 PM (Friday) –Oct. 23, 2005 AM (Sunday)
Site: Corridor outside VIP Room 1

A33 HRTEM Study of Interface in $Ti_{46}Al_8Nb1B$
Ningan XU[1], Xingfang WU[1], Hui JIANG[2], Shicheng MU[3], Dawei ZHANG[3]

A30 Determination of Size Distribution of Spaces among Dispersed MBS Phases in PVC by TEM Image Analysis
Zhengmin LI[1], Min TAN[2], Jiliang LIU[1], Zhiwei CHEN[1], Jialiang LI[1], Liu FENG[1]

A31 Microscopic Study of ZnS/Zn_2SnO_4 Cables
Ying LI, Chunna YANG, Xiuliang MA

A18 TEM Observation of La-based Bulk Metallic Glass Composite
Hua GUO[1], Manling SUI[1], Yi LI[2]

A19 The Study of the Adsorption of Heavy Metal Salts onto Weakly Basic Anion Exchangers by Inductive Coupled High Frequency Plasma(ICP)
WU Guoqi[1,2], LING Daren[1], Wolfgang H. HOELL[3]

A28 Fabrication of DBSA-doped Polyaniline Nanorods by Interfacial Polymerization
Dongxue HAN [1], Qixian ZHANG [1], Hongyu GUAN [2] and Li NIU [1]

A41 Critical Dimension Measurement Using New Scanning Mode and Aligned Carbon Nanotube SPM Tip
Toshiya NISHIMURA, Masatoshi YASUTAKE, Kazutoshi WATANABE, Sigeru WAKIYAMA

SCHEDULE OF SESSIONS
MASS SPECTROMETRY

ORAL LECTURES

2005-10-21 PM (Friday)
Site: Meeting Room No.1
Presiding: Mitsuo TAKAYAMA and Shuying LIU

1:30 B02 Analysis of Biological Noncovalent Complexes by Mass Spectrometry
Shuying LIU (keynote)

2:00 B14 Detection of Carboxyl-THC in Hair Using a Novel Nanoscale LC/MS/MS Technique
Michael C. ZUMWALT

2:20 B15 Development of Generic Approaches to Reduce Matrix Effect in LC-MS/MS Bioanalysis
Yuhui YANG

2:40-2:50 **Coffee Break**

2:50 B03 Integrated Analysis of Endocrine Disrupting Chemicals Using In-source Fragmentation, Collision-Induced Dissociation and Metastable Ion Decay in Negative-Ion Mass Spectrometry
Mitsuo TAKAYAMA (keynote)

3:20 B09 Weak Molecular Interactions and Mass Spectrometry
LATTES Armand

3:40 B16 Improving Productivity with Synchronous SIM/Scan
Chinkai MENG

2005-10-22 AM (Saturday)
Site: Meeting Room No.1
Presiding: Zongwei CAI and LATTES Armand

8:30 B06 Transition Metal Isotope Geochemistry and Cosmochemistry
Xiangkun ZHU (keynote)

9:00 B12 A New Glow Discharge Sector Field Mass Spectrometer for the Analysis of Highpurity Metals and Alloys
Meike HAMESTER

9:20 B20 Syringe Driven Chelating Resin-Packed Minicolumn for Determination of Trace Metals in Natural Water by ICP-MS
Yanbei ZHU

9:40 B19 Determination of Boron in Various Samples Using Inductively Coupled Plasma Mass Spectrometry
Hongxia YANG

10:00-10:10 **Coffee Break**

10:10 B04 LC/MS Based Metabonomic Study of Aristolochic Acids in Rat
Zongwei CAI (keynote)

10:40 B05 Clinical Mass Spectrometry : How Far the Way to Patients ?
Kaihua WEI (keynote)

11:10 B17 3-Hydroxycoumarin as a New Matrix for DNA Analysis by MALDI-TOFMS
Huimin DENG

2005-10-22 PM (Saturday)
Site: Meeting Room No.1
Presiding: Mutian WU and Christopher TYE

1:30 B08 Insight to the Effect of Bound Ligands on the Tetrameric Enzyme Using an Electrospray Ionization Mass Spectrometry
Zhili LI (keynote)

2:00 B10 Inductively Coupled Plasma Mass Spectrometry (ICP-MS) as a Complementary Method for the Characterization of Biomolecules
Christopher TYE

2:20 B24 Atmospheric Pressure Laser Ionization (APLI) Mass Spectrometry for Measurement of Aromatic Hydrocarbons
Oliver J. SCHMITZ

2:40-2:50 **Coffee Break**

2:50 B07 Detection of Doping with rhEPO
Mutian WU (keynote)

3:20 B11 On-line Sample Preparation and LC/MS/MS Analysis of Nitrofuran Metabolites In Animal and Animal Products
Jerry ZWEIGENBAUM

3:40 B21 Enhanced Dynamic Range and Improved Mass Accuracy for Proteomics Analysis Using a Hybrid Linear Ion TRAP-FTICR Mass Spectrometer
Thomas MOEHRING

4:00 B25 Tools for Evaluation and Quality Control of the NIST/NIH/EPA Mass Spectral Library
Anzor MIKAIA

2005-10-23 AM (Sunday)
Site: Meeting Room No.1
Presiding: Zhili LI and Chinkai MENG

8:30 B18 Structural Features of the Argininamide Binding DNA Aptamer Studied with ESI-FTMS
Xinhua GUO

8:50 B13 Determination of EU-Banned Disperse Dyes by LC/MSD TOF
Yanyan FANG

9:10 B26 The Differentiation of Flavonoid Isomers by Using Positive and Negative Ion Electrospray Ionization Tandem Mass Spectrometry
Ablajan KEYUME

9:30 B22 Development of a TOF Version (Time of Flight) of the Desktop MiniSIMS: Instrument Design and Applications
J.E. CANTLE

9:50 B23 LTQ-Orbitrap – A Novel Mass Spectrometer and Its Application Examples
Helmut MUENSTER

POSTER SESSION

2005-10-21 PM
Site: Second Floor Corridor

B27 Many-Particle Simulation for Ion Loss During Ion Excitation and Detection in a Fourier-Transform Ion Cyclotron Resonance Mass Spectrometer
Makoto FUJIWARA

B28 Determination of Total Arsenic in Algae by ICP-MS
Jun FANG

B29 Determination of Bismuth in Blood Plasma by Inductively Coupled Plasma Mass Spectrometry
Min ZHU

B30 Application of Direct Infusion Electrospray Ionization Quadrupole Time-Of-Flight Mass Spectrometry in Qualitative Analysis of Sixteen Compounds from Traditional Chinese Medicine
Qiande LIANG

B31 Identification and Structural Studies of Flavone Glycoside and Aglycone from ShanTangPing by HPLC-MS
Yongqian ZHANG

B32 Analysis of Pesticide Residues in Vegetable by GC-MS-MS
LingTONG

B33 Structural Analysis of Strychnos Alkaloids by Using ESI-FT-ICR-MS^n
Jing YAN

B34 Comparative Analysis Of Proteomes For Chemoresistance In Human Ovarian Adenocarcinoma Cell Line, coc1/ddp Using 2D-gel SDS-page and MALDI-TOF-MS
Lei LV

B35 Hydrolysis of Ginsenoside Under Various pH Values Monitored by Electrospray Ionization Tandem Spectrometry
Xu ZHANG

B36 Study of Chemoresistance in Human Leukemia Using Proteome Analysis
Xiaoyan QIU

B37 Analysis Anionic Surfactants Mixtures by FTICR Mass Spectrometry with Eletrospray Ionization
Cunyu YAN

B38 The Influencing Factors of The Deconvolution Ability of AMDIS in Pesticides Residue Analysis
Weiguo ZHANG

B39 The Relative Intensity of Molecular Ion $M^{+\bullet}$ in FAB-MS Could Reflect the Antioxidant Activity of Phenolic Compounds and Their Derivatives
FenYANG

B40 Observation of the Characteristic Aggregation of Organic Salt in Solution by Using Cold-Spray Mass Spectrometry
Ping GENG

B41 Trace Analysis Of Atrazine Residue In Soil Using GPC Clean up and GC-MS-MS Determination
Xinzhong ZHANG

B42 Direct MALDI-MS Analysis of Proteins Isolated by Liquid-Phase Isoelectric Focusing Electrophoresis
Ning LIU

B43 Fragmentation Pathways of Tanshinones by ESI-FT-ICR-MS
Huilin LI

B44 DNA Adducts as Biomarkers for Toxicological Study of Aristolochic Acids in Rat
W. Chan

B45 Ion-Ion Reaction for Charge Reduction of Biopolymers at Atmospheric Pressure
Huanwen CHEN

B46 Characterization of Metabolites of Sipi In Rat Urine by Liquid Chromatography-Mass Spectrometry
Peng ZHANG

B47 Sensitive Liquid Chromatography–Tandem Mass Spectrometry Method for The Determination of irbesartan In Human Plasma
Xin GUAN

B48 Determination of Tropisetron in Human Plasma by Liquid Chromatography With Atmospheric Pressure Chemical Ionization Tandem Mass Spectrometry
Xiaoyan LI

B49 Determination of Ribavirin in Human Plasma by Sensitive Liquid Chromatography Tandem Mass Spectrometry
Hongmei YANG

B50 Sensitive Liquid Chromatography-Tandem Mass Spectrometry Method for the Determination of Domperidone in Human Plasma
Hualing YU

B51 Determination of Uranium Isotopic Ratios in Simulated Urine
Tao ZHOU

B52 Detection of Corticosteroids, Anabolic Steroids and B2-Agonist in Athens Doping Control Lab, During Athens 2004 Olympic Games Using Ion Trap Mass Spectrometers
Michael C.ZUMWALT

B53 Analysis of Essential Oil from Amomi by GC-MS
Huiqin WU

SCHEDULE OF SESSIONS
SPECTROSCOPY

CHAIRMAN: Prof. Xinrong ZHANG

Atomic spectroscopy session

Oct.21, 2005 PM (Friday)

Chair: Prof. Norio TERAMAE (Tohoku University, Japan)

1:00 C2 Prof. A. SANZ-MEDEL (University of Oviedo, Spain) (Invited Lecture)

1:30 C10 Investigating the Distribution of Trace Elements in Root-like and Rootstalk-like Dried Medicinal Herbs by Using ICP-MS with ORS
Yanze WANG (王艳泽)

1:50 C11 Simulation of Diffusion of Metal Ion in Resin with Computer - Phenomenological Analysis of the Diffusion Process
Guoqi Wu (吴国琪)

2:10 ~ 2:40 Coffee Break & Poster Session

Chair: Prof. A. SANZ-MEDEL (University of Oviedo, Spain)

2:40 C12 A Terrestrial Plant (Moso Bamboo Shoot) That Transforms Inorganic Arsenic into Organic Arsenic
Rui ZHAO (赵蕊)

3:00 C13 A Newly Developed Upstream Electrothermal Va-Porization Device for Direct Solid Sampling
Gerd HERMANN (German)

Oct. 22. 2005 AM-PM (Saturday)

Chair: Prof. Bin HU (Wuhan University, P. R. China)

8:30 C4 UV/TiO_2 Photocatalytical Redox and Its Application to Elemental Speciation Being Used as an Effective Interface between High Performance Liquid Chromatography Coupled with Atomic Florescence Spectrometry
Prof. Qiuquan WANG(Xiamen University, P. R. China) (Invited Lecture)

9:00 C14 Matching XRF and XRD Solutions with Analytical Needs for Cleaner, Safer and Healthier Products and Materials
Ravi Yellepeddi (Thermo Electron Corporation)

9:20~9:50 **Coffee Break & Poster Session**

Chair: Prof. Qiuquan WANG (Xiamen University, P. R. China)

9:50 C5 Liquid Phase Microextraction Combined with Electrothermal Vaporization ICP-MS for Trace/Ultratrace Elements and Their Speciation Analysis
Prof. Bin HU (Wuhan University, P. R. China) (Invited Lecture)

10:20 C17 Determination of Trace Elements in Metal Material by ICP-AES
Shan JI (纪杉)

10:40 C18 High Performance CCD-based OES Spectroscopy for Metal Analysis
Emile Muller (Thermo Electron Corporation)

Molecular spectroscopy session

Chair **Prof. Jinming LIN (Tsinghua University, P. R. China)**

1:30 C6 Nucleobase Recognition Using Fluorescent Ligands and Oligo-DNA Duplexes Containing an Abasic-Site
Prof. Norio TERAMAE (Tohoku University, Japan)(Invited Lecture)

2:00 C19 Laboratory Method on Antioxidant Capability Measurement
Li Na (李娜)

2:20 C20 Phosphorescence Nanoclinic Part 2: Estimation of Hormone Level of Endometrium Cancer Patient by Image Immunoassay
Hong-Sheng MAO

2:40 C21 Effects of High Temperature Onlocal Anesthetics Determined by High Performance Liquid Chromatography – Ultra Visual Detector
Qinhua Cindy RU

3:00~3:30 **Coffee Break & Poster Session**

Chair **Prof. Norio TERAMAE (Tohoku University, Japan)**

3:30 C7 Determination of 17beta-Estradiol in Environmental Water Using Chemiluminescence Immunoassay Method
Prof. Jinming LIN (Tsinghua University, P. R. China) (Invited Lecture)

4:00 C22 Possibilities of Slab Optical Waveguides as Detectors for Flow Analysis
Kin-ichi TSUNODA

4:20 C23 Backbone Dynamics of E. Coli HPPK and Its Complex with an ATP Analogue
Ewen LESCOP (French)

4:40 C24 Differentiation of Cholesterol, Elastin and Collagen through Blood with Near-Infrared Spectroscopy
Bin DAI

Oct. 23. 2005 AM (Sunday)

Chair **Prof. Ronghua YANG (Peking University, P. R. China)**

8:30 C8 Spectroscopic Probes with Cleavable Active Bonds
Prof. Huimin MA (Institute of Chemistry CAS, P. R. China) (Invited Speaker)

9:00 C25 High Sensitivity Probing of Biomolecular Activities with Fourier Transform Surface Plasmon Resonance (FT-SPR)
Eric JIANG (Thermo Electron Corporation)

9:20~ 9:50 **Coffee Break & Poster Session**

Chair **Prof. Huimin MA (Institute of Chemistry CAS, P. R. China)**

9:50 C9 Highly Selective Recognition of Copper Ion by Spiropyran
Prof. Ronghua YANG (Peking University, P. R. China) (Invited Lecture)

10:20 C26 Development of an Aerosol Chemiluminescent Detector Coupled to Capillary Electrophoresis for Saccharides Analysis
Guangming HUANG

10:40 C27 Fluorescent Sensing of proton and Anions by Simply Synthesized Dyes
Yu XIANG (Aijun TONG)

POST SESSION

C28 Determination of Trace Calcium, Magnesium, and Sodium in High-Purity Lead by FAAS
Huachang LI (李华昌)

C29 Determination of Trace Arsenic, Antimony, and Bismuth in High-Purity Zinc by HG-AFS
Huachang LI (李华昌)

C30 Determination of Trace Amount of Cu, Zn, Se, Sb, Te, Pd AND Au in Silver Metal by ICP-MS
Xianjin FENG (冯先进)

C31 Determination of Metallic Elements in Traditional Chinese Medicines by FAAS
Wei ZHANG (张薇)

C32 Chemical Vapor Generation of Cu: Optimization of Generation Media
Shukun XU (徐淑坤)

C33 Study on the X-Ray Spectral Distribution after Attenuated by Filters in Theory
Xiaoyuan HAN (韩小元)

C34 Determination of Impurities in Silicon Carbide by Slurry Introduction ICP-OES
Zheng WANG (汪正)

C35 Speciation of Selenium in Se-Enriched Yeast by Ion Pairing High Performance Liquid Chromatography Coupled with Hydride Generation-Atomic Fluorescence Spectrometry
Jianhua QIU (邱建华)

C37 Cytosol Targetable, Long-Wavelength and Ratiometric Fluorescent Ca^{2+} Indicator STDIn
XiaolingZHANG(张小玲)

C38 Electrochemiluminescence of $Ru(bpy)_3^{2+}$ Immobilized in the Gallery of Gamma-Zirconium Phosphate
Xianbo SHI （史现博），Minghui XIANG (相明辉), Na LI (李娜)

C39 Intercalation of Metalloporphyrins into Layered Zirconium Phosphates and Its Catalytic Application
Haiyan WANG, Na LI

C40 Photoacoustic Linearization: Principle and Applications to Continuous Scan and Step-Scan FT-IR Photoacoustic Spectroscopy
Eric JIANG

C41 FTIR, SEM, and Energy Dispersion X-Ray Analyses of Pine Pollen Samples
Zhuoyong ZHANG(张卓勇)

C42 Quantitative Prediction of Active Constitutes in Rhubarb by NIR and RBF Beural Networks
Xiaohui YU(于晓辉)

C43 Preparation of Monodisperse Nanogold Colloids Using Gallic Acid and Application in Colorimetric Polynucleotide Detection
Wenxing WANG(王文星)

C44 Determination of Iodine in Food by Sequential Injection Analysis with Chemiluminescence Detection
Chunying GAO (高春英)

C45 Simultaneous Synchronous Fluorescence Determination of Carbaryl, Propoxur and Carbofuran with Multivariate Calibration Methods
Yongnian NI (倪永年)

C46 Solvent Effects on infrared Spectroscopy of 17β-Hydroxy-17methyl-2-oxa-5α-androstan-3-one in Binary Solvents
Yaqin LIU (刘雅琴)

C47 Study on Solvent-Solute Interaction of Butyl Acrylate in Organic Solvents by FTIR
Hui ZHANG (张辉)

C48 Solvent Effect on the Spectral Characteristics of 5,10,15,20-Tetrakis(p-hydroxyphenyl)-21H,23H-Porphine in Basic Dime-thylformamide + Water Mixed Solvents
Hongwei GUO (郭红卫)

C49 Speciation of Mercury in Biological and Environmental Samples by Using HPLC Coupled with AFS Through A Novel T_iO_2/UV Photocatalytical Device
Yanmin YIN (尹燕敏)

C50 Spectrophotometric Determination of Aluminum by B-Cyclodextrin and Surfactant Enhancing Effect
Fengchao SUN

C51 Electrostatic Collection of Atmospheric Aero-Sols for Direct Solid Sampling Analyses
Gerd HERMANN

C52 Fluorescent Recognition of SCN^- Anion Based on the Porphyrin/Porphyrin Cobalt (Ⅱ) Self-assembly System
Ronghua YANG (杨荣华)

C53 Layer-by-layer Self-Assembly of Multilayer Films Containing DNA and Polybrene: Their Characteristics and Interactions with Small Molecules
Bing YU

C54 Investigation of the Inclusion Behavior of A–Naphtholphthalein with β-CD and HP-β-CD
Zhongping LI (李忠平)

C55 SERS of 4-Mercaptopyridine SAMS in Sandwich Structure Fabricated on Glass
Yuling WANG (王玉玲)

C56 Preparation of Nanogold with Dendrimer and Its Conjunction with DNA
Yingxin GE (葛颖新)

C57 Direct Aqueous Synthesis of High Quality Cysteamine-Stabilized CdTe Nano crystals
Jie CAO (曹璨)

C58 β-Cyclodextrin Inclusion Resin for the Adsorption of Palladium
Hailing LIU

C59 Highly Selective Recognition of Copper Ion by Spiropyran
Na SHAO

C60 Solvent Effects on Infrared Spectroscopy of Nethyl-2,3-dioxo-piperazine in Single Solvents
Zhengru WEN

C61 Atomization of Hydride with a Low Temperature, Atmospheric Pressure Dielectric Barrier Discharge and its Application to Arsenic Speciation with Atomic Absorption Spectrometry
Zhenli ZHU

SCHEDULE OF SESSIONS

CHROMATOGRAPHY

ORAL LECTURES

Oct. 21, 2005 PM (Friday)
Site: Press Hall
Presiding: Yu Kui ZHANG & Nobuo TANAKA

13:00-13:30	D2	High Peak Capacity HPLC Separations by Using Monolithic Silica Columns Nobuo TANAKA **(Keynote)**
13:30-13:40	D3	On-Line Simultaneously Deproteinization and Enrichment of Drugs on the Weak Cation-exchange Monolithic Column Geng Liang YANG
13:40-13:50	D4	The Study of Bioodor Fingerprint Characteristics Using Solid Phase Microextraction Gong Ke LI, Zhuomin ZHANG
13:50-14:00	D5	HPLC Column Selectivity Options for the Analysis of Complex Samples Wu CHEN
14:00-14:30	D6	Multidimensional Liquid Phase Based Separation Technique and Its Application in Proteome Study Yu Kui ZHANG **(Keynote)**
14:30-14:40	D7	Evaluation and Characterization of HPLC Columns with Sub-Critical End-Cappings Yu Hui YANG
14:40-14:50	D8	The Preparation and Characterization of β-Cyclodextrin Derivated Ovalbumin Used as Chiral Selector in Capillary Electrochromatography Rong Ji DAI
14:50-15:00	D9	Capillary Electrophoresis of Aminosaccharides Dansylated by the Assistance of Microwave Li QI
15:00-15:30	D10	Surface Chemistry for Molecular Recognition and Sensing Ming Di YAN **(Keynote)**
15:30-17:00		**Poster Session**

Oct. 22, 2005 AM-PM (Saturday)
Site: Press Hall
Presiding: Michael .J. SCHÖNING & Yin Fa MA

8:30—9:00 D11 The Latest Developments on Silicon-Based Field-Effect (Bio-)Chemical Sensors
Michael .J. SCHÖNING **(Keynote)**

9:00—9:10 D12 Study on Electrochemical Profiles of Traditional Chinese Medicines by Ce-Ad
Qing Cui CHU, Jiang Nong YE

9:10—9:20 D13 Accumulation of Neurotransmitters I Rat Uring with Solid-phase Extraction Followed by HPLC-ECD Determination
Feng QU

9:20- 9:50 D14 Single Molecule Immunoassay through Single Molecule Electrophoresis
Yin Fa MA **(Keynote)**

9:50-10:10 **Coffee Break**

Presiding: Werner ENGEWALD & A. CIFUENTES

10:10-10:40 D15 Capillary Electrophoresis with Mass Spectometry and Laser Induced Fluorescence Two Powerful Techniques for Bioanalytical Chemistry
A. CIFUENTES **(Keynote)**

10:40-11:10 D16 Advantages of LC-Chip Ion Trap Mass Spectrometry Compared to Nano-LC-Ion Trap Mass Spectrometry for Metabolite Identification
Robert SOLAZZO

11:10—11:20 D17 Rapid Determination of Additives in PVC Plastic by Online GPC-GC/MS
Hai Xia ZHOU

11:20—11:30 D18 On-Line Coupling of SPE-HPLC-MS/MS for Fast Trace Analysis of Pesticides in Drinking and Surface Water
Werner ENGEWALD **(Keynote)**

Presiding: Da Yong CHEN & Yi CHEN

13:00-13:30	D19	Fast Capillary Electrophoresis Approaches Yi CHEN **(Keynote)**
13:30-13:45	D20	Determination of Trace Sulfur in Light Hydrocarbon Streams Using Dual Channel New Flam Photometric Detector Roger FIROR, Chun Xiao WANG
13:45-13:55	D21	Development of New Separation Media for HPLC and Sample Preparation Qun Jie WANG
13:55-14:25	D22	New Technologies for Differential Proteomics Da Yong CHEN **(Keynote)**
14:25-14:45		**Coffee Break**

Presiding: David GRAINGER & Chao YAN

14:45-15:15	D23	Pressurized Capillary Electrochromatography Coupled with ESI-MS and Its Applications in Biotechnology Chao YAN **(Keynote)**
15:15-15:25	D24	Replica Multichannel Polymer Chips for High-Throughput Analysis of Bio-Polymer Fu Quan DANG
15:25-15:35	D25	Practical System Optimization for Achieving the Maximum Performance of High Speed and High Resolution in Modern HPLC Michael WOODMAN
15:35-16:05	D26	Bioanalytical Challenges in the Microarray Space: Metrics, Meaning, and Money David GRAINGER **(Keynote)**

Oct.23,2005 AM (Sunday)
Site: Press Hall
Presiding: Hu Wei LIU & Guo Wang XU

8:30—9:00 D27 Metabonomics Applications in Disease Biomarker Discovery and Safety and Efficacy Assessments of Traditional Chinese Medicines Based on GCXGC-TOF MS and UPLC-Q-TOF MS^n
Guo Wang XU **(keynote)**

9:00—9:10 D28 Managing Spreadsheets in a Regulated Environment
Susanne KRAMER

9:10—9:20 D29 Separation Sciences in Specialty Chemicals R&D
Ping LI

9:20—9:30 D30 A New Method to Simulate the Oxidative Deamination of Amines by Monoamine Oxidase in Capillary Column Chromatography
Yan Qing LIU,Yu Lin DENG

9:30-10:00 D31 Screening of Affinity Ligands for Affinity Chromatography
Guo Quan LIU **(Keynote)**

10:00-10:20 **Coffee Break**

10:20-10:30 D32 The Impact of Low Level Organics on HPLC and LC-MS Baselines of Ultrapure Water
Stéphane MABIC

10:30-10:40 D33 The Stability and Characteristics of the *o*-Phth-Alaldehyde Derivatives of Amino Acids and Amines, the Role of the Sh-Group Containing Additive Regarding Optimum Analytical Conditions & Derivatization-Mechanism: LC/MS, LC/DAD/FL Study
Ibolya Molner PERL

10:50-11:20 D34 Analysis of Phospholipid Species in Peritoneal Surface Layer by Liquid Chromatography - Electrospray Ionization Tandem Mass Spectrometry
Hu Wei LIU **(Keynote)**

POSTER SESSION

D35 Use of An Improved Version of C8+SCX Mixed-Mode Solid Phase Extraction Material For Clean Extraction and Recovery of Basic, Zwitterions, Neutral and Acidic Compounds from Biological Fluids
Yuhui YANG

D36 Analysis of Oxalic Acid in Terramycin by Ion Chromatography
Li JIA(贾丽)

D37 Simulated Determining of Enantiomeric Excess of Methionine and Tryptophan By CAE
Jun WANG(汪俊)

D38 Determination of the Multiresidue of Organochlorine Pesticides in Vegetables and Tea by SPE and HPLC
Xuehan CAI(蔡雪寒)

D39 The Determination of Monacolin k in Functional Red Yeast Rice by HPLC
Xuexin GU(谷学新)

D40 Next Generation C18 Columns for Modern Reversed Phase HPLC
Lixin YAO(姚立新)

D41 A New Family of Reversed Stationary Phases for Modern High Performance Liquid Chromatography
Lixin YAO(姚立新)

D42 A Novel C18 Phase for Polar And Basic Compounds of Reversed Phase HPLC
Lixin YAO(姚立新)

D43 Analysis of Suspended Matters in Jet Fuel
Lixin YAO(姚立新)

D44 Analysis of Polycyclic Aromatic Heterocycles in Crude Oil Based on Ligand Exchange Chromatography
Xiaolan ZENG(曾小岚)

D45 GC Analysis VOCs of Indoor Air Quality with Thermal Desorption
Xiaolan ZENG(曾小岚)

D46 From Micrograms to Grams: HPLC Preparative Scale-up for Complex Mixtures and Degradation Products Using Small Particle Sobents
Wu CHEN

D47 "Plug & Play": Fast and Ultra Fast Separations Using 3.5 μm Rapid Resolution and 1.8 μm Rapid Resolution High Throughput Columns
Wu CHEN

D48 Separation and Determination of Five Enkephalin-Related Peptides by CZE -AD
Sheyue YAO(姚射月)

D49 Determination of Alkaloids in Strychnos Nux-Vomical.by Nonaqueous Capillary Electrophoresis
Hongxia LI(李洪霞)

D50 Development of On-Line De-Saltation System for LC/MS Identification
Jianguo YAO(姚建国)

D51 Determination of Pyrethrin Residues in Vegetable by High Performance Liquid Chromatography with UV Detection
Qiaoyan GONG(龚巧燕)

D52 A Novel Method for the Preparation of Octyl Bonded Styrene-Divinylbenzene HPLC Packings
Yumin ZUO(左育民)

D53 Enantioseparation of a Novel Organic Phosphonate Derivative on DMB Chiral Stationary Phase
Baoxi SHEN(沈报春)

D54 Enantioseparation of Triazole Fungicides on Tartardiamide DMB Chiral Stationary Phase
Xuejun ZHANG(张雪君)

D55 Enantioseparation of Propranolol Using (2R,3R)- Tartrate as CMPA by HPLC
Juanjuan CHEN(陈娟娟)

D56 Pressurized Electrochromatography Coupled with Laser Induced Fluorescence Detector for Analysis of Fitc- Labeled Aliphatic Amines
Xiaojing HUANG(黄晓晶)

D57 Non-gel Electrophoresis of DNA fragments with Uncoated Capillary and Field Amplification
Zhiyong WU(吴志勇)

D58 LAB-ON-CHIP Capillary Electrophoresis Device for Budget-Conscious Application
Werner HOFFMANN

D59 Protecting Intellectual Property with Legally-binding Digital Signatures and the Safe Standard
Susanne KRAMER

D60 Determination of the Boiling Range Distribution of Petroleum Products Using Simulated Distillation System
Chunxiao WANG(王春晓)

D61 Separation and Determination the Three Compoundsin the Seeds of Trigonella Foenum Graecum
Duanhua HUANG(黄端华)

D62 Organophosphorus Pesticides Detected and Separated in Vegetable by SPE-HPLC
JInquan CHEN(陈金泉)

D63 Determination of Tobacco-Specific N-Nitrosamines and Study on Their Split Peak Phenomenon by Liquid Chromatography -Electrospray Ionization-Mass Spectrometry
Chenchen LI

D64 Study on Competition Mechanism between β-Cyclodextrin and SDS in the Separation of Aristolochic Acid I and II
Wei LI

D65 Analysis of Andrographolides and Their Metabolites by Liquid Chromatography-Mass Spectrometry
Hao DI

D66 Determination of Phospholipids by Capillary Electrophoresis with Indirect Ultraviolet Detection
Juan DONG

D67 Separation of Hydrophobic Solutes by Micellar Electrokinetic Chromatography Using Cation Surfactants
Suxuan GONG

D68 Quantitative Analysis and Fragmentation Pathways of Hexanitrostilbene by LC-ESI-MS
Xiaofang FU

D69 Fragmentation Study and Analysis of Benzoylurea Insecticides and Their Anlogs by Liquid Chromatography-Mass Spectrometry
Xia YANG

D70 Separation of Tramadol Enantiomers by Capillary Electrophoresis Using Highly Sulfated Cyclodextrins
Alireza SHAFAATI

D71 The Determination of Algae Chlorophylls in Drinking Water by HPLC
Rongji DAI(戴荣继)

D72 The Synthesis and Applications of Molecular Imprinting Chiral Separation Functional Monomer
Liqiang SU(苏立强)

D73 A Novel Reversed-Phase C18 Column for Separation of Highly Polar Compounds Under Highly Aqueous Mobile Phase Conditions without Phase Collapse
Chao ZHANG(张超)

D74 Non-aqueous Capillary Electrophoresis Separation of Three para-Tertbutyl Calixarenes
Shusheng ZHANG(张书胜)

D75 Separation of Somatropin and Its Degredation Products by HPLC Using a Reversed Phase Polymeric Column
Reza ABOOFAZELI

D76 Investigation of Phase Behavior and Extraction of Papaverine Based on PEG-$(NH_4)_2SO_4$ Aqueous Biphasic System
Qing CAO

D77 Molecularly Imprinted Silica with Wormlike Pores Prepared by Using Ionic Liquid as Solvent for Biochemical Separation
Chiyang HE

D78 Extraction of Morphine and Its Analogues Using Aqueous Two-phase System of Poly(Ethylene Glycol) and Salt
Shehong LI

D79 Extraction of Testosterone and Epitestosterone in Human Urine by 2-Propanol-Salt-Water System
Hailing LIU

D80 Molecularly Imprinted Silica Film Coating on Silver Colloid for Selective Recognition of Testosterone
Yuanyuan LONG

D81 Chiral Separation of M_2O_7 With Monolithic Columns of Molecularly Imprinted Polymers
Zhiwei LI(李志伟)

D82 Estimation of Octanol-Water Partition Coefficients by Biopartitioning Micellar Chromatography
Hongying JIA (贾宏瑛)

D83 Chemically p-Tert-butyl-calix[8]Arene-Bonded Monolithic Silica Column for HPLC
Junfa YIN (尹俊发)

D84 Stacking of FMOC-Derivatized Amino Acids by Dynamic pH Junction in Capillary Electrophoresis
Yanli HAN (韩彦丽)

D85 Investigation of Protein Immobilizated Magnetic Beads by Capillary Zone Electrophoresis
Mingyi XIE (谢明一)

D86 Resolving Protein Charge Ladders Produced by Cyanuric Chloride Derivatives Using Capillary Electrophoresis
Zhenming GUO (郭振朋)

D87 Sensitive Detection of Small Ions by Electromagnetic Field-enhanced Resonant Light-Scattering
Zhiqiang HAN (韩志强)

D88 Chiral Separation of Amino Acids Derivatized with 9-Fluorenylmethyl Chloroformate by Capillary Electrophoresis Using Mixed Selectors of β-Cyclodextrin and Sodium Taurodeoxycholate
Fang CHEN(陈方)

D89 Study on the Specific Interactions between Sense snd Antisense Peptides of Human Interferon-B Based on the Degeneracy of Antisense Peptides by Affinity Chromatography
JiaLUO (罗佳)

D90 New Method for HPLC Separation and Fluorescence Detection of Malondialdehyde in the Normal Human Plasma
Jianjun MAO (毛建军)

D91 Study on the Interaction between Benzylamine and Benzaidehyde with Liposome by Ce
Hong LI (厉红)

D92 Study on the Interaction of DAT With DA and Its Inhibitor by Liposomes Ce
Jing JIANG (江晶)

D93 A New Method to Simulate the Oxidative Deamination of Amines by Monoamine Oxidase in Capillary Column Chromatography
Peixiang MA (马培翔)

D94 Comparison of Two Kinds of Solid Phase Extraction Sorbents for Dopamine Extraction in Biological Samples
Wan WANG (王婉)

D95 A New Extraction Technique: Vacuum Microwave Assisted Extraction
Junxia WANG(汪军霞)

D96 β-Cyclodextrin Inclusion Resin for the Adsorption of Palladium
Hailing LIU

D97 Gas Chromatography Analysis of the Gas of the Biomass Gasification Experiment in Supercritical Water
Jingchang WANG

D98 The Use of Sub 2μ Particles to Achieve Enhanced Resolution and Speed
M. WOODRUFF

D99 Matching Water Quality and Detection Limits
Stéphane MABIC

D100 Ion Removal: Assessment of Various Water Purification Technologies
Elodie CASTILLO

D101 The Synthesis and HPLC Application of a Novel Substituted β-Cyclodextrin
Aiqin LUO (罗爱芹)

D102 Synthesis of Molecularly Imprinted Polymer with Aciclovir as Template and Its Molecular Recognition Function
Yafei WANG(王亚飞)

D103 Development a Rapid HPLC Method for Determination of Gliclazide in Human Plasma Using A Monolithic Column
Afshin ZARGHI

SCHEDULE OF SESSIONS
MAGNETIC RESONANCE

PLENARY LECTURES

2005-10-21 PM (Friday)
Site: Meeting Room No.3
Presiding: Bin XIA

13:30	**E3**	Protein-Protein Interaction Studied by NMR Yunyu SHI (keynote)
14:05	**E4**	NMR : A Tool for Biology Eric GUITTET(keynote)
14:40-14:50		**Coffee Break**
14:50	**E5**	NMR Studies of Structural Intermediates in Cytochrome *c* Folding Hong CHENG(keynote)
15:25	**E7**	Solution Structures and Backbone Dynamics of Arsenate Reductase from *Bacillus Subtilis:* Reversible Conformational Switch Associates with Arsenate Reduction Changwen JIN (keynote)
16:00		**POSTER**

2005-10-22AM (Saturday)
Site: Meeting Room No.3
Presiding: Changwen JIN

8:30	**E6**	Backbone Dynamics of E. Coli HPPK and Its Complex with an ATP Analogue Studied by ^{15}N NMR Relaxation. Ewen LESCOP
8:55	**E13**	Molecular Aspects of Diseases and Traditional Chinese Nedicines-An NMR-Based Metabonomics Perspective Huiru TANG
9:20	**E12**	Millisecond Timescale Conformational Exchanges of SARS-CoV Nsp9 Protein Yunfei HU

9:45-10:05 **Coffee Break**

10:05 **E9** An Efficient NMR Approach Applicable to Biomolecular Structure Characterization
Ping ZHOU

10:30 **E8** Advances in Instrumentation and Methods for Carbon-13 Detected NMR Spectroscopy of Proteins and Nucleic Acids
Clemens ANKLIN

10:55 **E49** Two-dimensional Hadamard Spectroscopy
Eriks Kupce

2005-10-22 PM (Saturday)
Site: Meeting Room No.3
Presiding: Huiru TANG

13:30 **E11** Solid-State $^{15}N/^{1}H$ Chemical Shift Correlation Experiments of Aligned Samples at High Fields
Riqiang FU

13:55 **E10** NMR Detection of Nitrogen Containing Compounds
Zhiwei DENG

14:20 **E48** Quaternary Carbon Analysis for Lube Base Oils by NMR
Jing WANG, Research Institute of Petroleum Processing

14:45 **E15** Plasma Metabolic Characteristics of SAM MICE Studied by NMR Based Metabonomics
Xianzhong YAN, Beijing Institute of Pharmacology and Toxicology

15:10-15:30 **Coffee Break**

15:30 **E14** Neurochemical Changes in Prefrontal Cortex and Hippocampus of Rat Induced by Chronic Morphine Administration and Withdrawal Studied by High Resolution ^{1}H NMR Spectroscopy
Hongchang GAO, Wuhan Institute of Physics and Mathematics,

15:55 **E16** The Metabolic Profiles of Serum for Nephrotoxin Treated Rats by NMR-Based Metabonomic Approach
Xiaoyu ZHANG, Changchun Institute of Applied Chemistry

16:25 **E17** Continuous-Flow Hyperpolarized ^{129}Xe NMR for the Characterization of Materials and Processes
Weiping ZHANG, Dalian Institute of Chemical Physics

16:50 **E18** NMR Spectroscopic-Based Metabonomic Investigation on the Acute Biochemical Effects Induced by $CE(NO_3)_3$
Peiqiu LIAO, Changchun Institute of Applied Chemistry

POSTER SESSION

E19 Comparison of Biochemical Effects for Rare Earths by NMR-Based Metabonomic Approach
Zhongfeng LI (李中峰)

E20 Microstructure of A Novel Acrylamide/Methacrylic Acid Template Copolymer in Aqueous Solution
Aihong LIU(刘爱红)

E21 In Situ High-pressure NMR Observations on Formation and Dissociation of Methane Hydrate Confined in The Channels of Mesoporous SBA-15
AibingCHEN (陈爱兵)

E22 A Multinuclear Solid-State NMR Study on the Activation Process of Mo/HZSM-5 Catalyst for The Methane Dehydroaromatization
Yan ZHEN(郑珩)

E23 Structure Elucidation of Isomeric Compounds with 2D NMR Technology
Zijiang JIANG (蒋子江)

E24 Solid State NMR Study on Synthesis of $AlPO_{4-5}$
Jun XU (徐君)

E25 Solid State NMR Studies on Acidity of Mesporous $MoOx-ZrO_2$ and $WOx-ZrO_2$ Materials
Jun XU (徐君)

E26 Quantitative Measurement of CP-MAS Spectra in Solid-State NMR
Guangjin HOU (侯广进)

E27 Solid State NMR Studies of Methanol-to-Aromatics over Silver Exchanged HZSM-5 Zeolites
Lindan ZENG (曾丹林)

E28 Optimization of Parameters in Quantitative DEPT(Q-DEPT) Experiment
Bin JIANG (蒋滨)

E29 Segmentation and 3D Reconstruction of Animal Liver Vessels Based on MR Imaging
Yajun WU (伍亚军)

E30 Correction In MR Renography: Semi-Automated Image Analysis
Jinqiang JIN (何金强)

E31 Improving Signal Intensity Curve of Myocardial Perfusion Based on Level Set Registration Method
Ke ZhANG (张珂)

E32 NMR Study on the Conformation of Valsartan and Related Compounds
Fang LI (李芳)

E33 Metabolic Characteristic of Rat Brain in The Early Stage of Temporal Lobe Epilepsy Using ^{1}H MAS-NMR
Huilang LIU (刘慧浪)

E34 Molecular Motions in Semi-Crystalline Phb And P(HB_HV) as Studied by Soild State NMR
Limin ZHANG (张利民)

E35 More Evidences for the Folding-Unfolding Mechanism for the Thrombin-Binding DNA Aptamer d(GGTTGGTGTGGTTGG)
Huili LIU (刘惠丽)

E36 Nmr Studies of Wines: Determination of Compounds and Geographical Origin
Yuanyuan DU (杜媛媛)

E37 NMR Studies of Poplar Glutaerdoxin C1---A Connection between Glutaredoxin and Iron-Sulfur Protein
Yingang FENG(冯银刚)

E38 Structure, Function and Dynamics Studies of S-BCCP
Gaofeng CUI (崔高峰)

E39 Solution Structure of A Bacilus Subtilis Acylphosphatase
Jicheng CUI (胡继承)

E40 Study On Structure And Functions Of SARS 3C-like Protease
Nan ZHONG

E41 Solution Structures of an Arsenate Reductase from Bacillus Subtilis in Reduced and Oxidized States
You LI

E42 NMR Study of Human Phosphohistidine Phosphatase (PHPT1)
Weibin GONG

E43 Solution Structure of A New Thioredoxin-Like Protein YKUV from Bacillus Subtilis
Xinxin ZHANG

E44 Solution Structure of a Low Molecular Weight Protein Tyrosine Phosphatase from Bacillus Subtilis
Huimin XU

E45 Backbone Dynamics of Arsenate Reductase from Bacillus Subtilis in Reduced and Oxidized States
Xianrong GUO

E46 Detection of Lung Cancer and Breast Cancer Using ^{1}H-NMR-based Metabonomics
Tao WANG

E47 Investigation of the "Induced" Brönsted Acid Sites in Microporous Hy Zeolite by Solid State NMR Spectroscopy
Wei HU

SCHEDULE OF SESSIONS

ELECTROANALYTICAL CHEMISTRY

ORAL LECTURES

OCTOBER 20, 2005 p.m. 1:00 – 5:00 (Thursday)
Site Meeting Room No.2
Presiding: F. I. Willner, R. Yu

1:00-1:30 F3

ENHANCING THE BIOCOMPATIBILITY AND ANALYTICAL PERFORMANCE OF IN VIVO ELECTROCHEMICAL SENSORS USING NITRIC OXIDE RELEASING/GENERATING POLYMERS
Mark E. MEYERHOFF

1:30-1:50 F11

NADH BIOSENSOR AND ITS USE AS PLATFORM FOR MULTIPLE AND DIVERSIFIED DEHYDROGENASE BIOSENSORS
Simona SERBAN and Nabil El MURR

1:50-2:10 F14

A FLUORESCEIN-LABELED BETA-LACTAMASE MUTANT FOR HIGH-THROUGHPUT SCREENING OF BACTERIAL BETA-LACTAMASES AGAINST BETA-LACTAM ANTIBIOTICS
Kwok-Yin WONG and Yun-Chung LEUNG

2:10-2:30 F31

VOLTAMMETRIC BEHAVIOR OF EPINEPHRINE AT OVEROXIDIZED POLYPYRROLE MODIFIED ELECTRODES AND VOLTAMMETRIC DETERMINATION
Guofang ZUO Xiuhui LIU Hongde LIU Yan ZHANG Limin ZHANG and Xiaoquan LU*

2:30-3:00 F15

ELECTROCATALYSIS OF O2 AND H2 AT NANOSTRUCTURED ASSEMBLES OF Pt NANOPARTICLES, Pt ULTRATHIN FILMS AND HYBRID COMPLEX FILMS
Shaojun DONG

3:00-3:30 F4

MONITORING NEUROTRANSMISSION AND INTEGRATED COUPLING IN BRAIN
C. Amatore

OCTOBER 21, 2005 p.m. 1:00-3:30(Friday)
Site Meeting Room No.2
Presiding: H. H. Girault, H. Ju

1:00-1:30 F5

NEW ELECTROCHEMICAL INSIGHTS GAINED FROM USE OF FOURIER TRANSFORM BASED INSTRUMENTATION

Alan M. BOND

1:30-2:00 F6

Integrated On-Chip Electrochemical Detection and Sample Processing at High Surface Area Microfabricated Electrodes

R.P. Baldwin*, R. Pai, L. Sztaberek, D.B. Franco, K.M. Walsh, R.S. Keynton, J.F. Naber

2:00-2:20 F21

ION CHANNEL BEHAVIOR OF A TETRA-(N-HEXADECYLPYRIDINIURNYL)PORPHYRIN AND N-HEXADECYLAMINE FABRICATED HYBRID BILAYER MEMBRANE ON GLASSY CARBON ELECTRODE

Xiangqin LIN and Yongxin LI

2:20-2:40 F29

PROBING THE ELECTRIC FIELD AT THE END-CHANNEL OF A CAPILLARY ELECTROPHORESIS USING COUPLING MODE OF SECM

Xing-Hua XIA*, Kang WANG, Jingjuan XU and Ting ZHOU

2:40-3:00 F20

SYNTHESIS OF BIMETALLIC CORE-SHELL NANOPARTICLES AND MAGNETIC-SILICA NANOCOMPOAITE MATERIALS

Xiurong YANG*, Lei Qian

3:00-3:30 F13

ELECTROCHEMICAL BIOSENSORS FOR PHENOLS: THE ENZYME IMMOBILIZATION AND INTERFACE FABRICATION USING NANOPARTICLES AND SOL-GELS

Ruqin YU*, Zhimin LIU, Yingfeng LI and Guoli SHEN

3:30-3:45 Recess

Presiding:R. Baldwin, X. Lin

3:45-4:15 F7

ELECTROCATALYTIC OXIDATION OF SUGARS AT AG AD-LAYER MODIFIED AU(111) AND AU(100) ELECTRODES IN ALKALINE SOLUTIONS

Isao Taniguchi,* Yasuhiro Nonaka, Changchun JIN and Tadashi Sotomura#

4:15-4:35 F18

CONTACTLESS CONDUCTIVITY DETECTION AND POLYMER CHIPS – AN APPROACH TO MINIATURIZED CAPILLARY ELECTROPHORESIS AT LOW COSTS

Werner HOFFMANN[1], Holger MÜHLBERGER[2], Andreas GUBER[2], Bob GAŠ[3]

4:35-4:55 F24

DETERMINATION OF ARISTOLOCHIC ACID I AND II IN DIFFERENT PART OF *ARISTOLOCHIA DEBILIS SIEB. ET ZUCC.* PLANT USING CAPILLARY ZONE ELECTROPHORESIS WITH ELECTROCHEMICAL DETECTION

Xiaoguang ZHOU[1], Chunying ZHENG[2], Jinying SUN[1] and TianyanYOU[1*]

OCTOBER 22, 2005 a.m. 8:30 – 11:30(Saturday)
Site Meeting Room No.2
Presiding: A. Bond, J. Kong

8:30-9:00 F9

ELECTROANALYTICAL APPROACH TO PROTEOMICS

Jean-Pierre ABID, Loïc DAYON, Jean-Olivier GAMBY, Jacques JOSSERAND, Hoang Tram LAM, Niels LION, Andrea LIONELLO, Christophe ROUSSEL and Hubert H. GIRAULT

9:00-9:30 F63

Single-Walled Carbon Nanotubes: Novel Materials for Electrochemistry and Templates for Metal Nanoparticle Formation

Thomas M. Day, Virginia Ruiz, Neil R. Wilson, Julie V. Macpherson Patrick R. Unwin

9:30-9:50 F19

DETERMINATION OF AMINOHETEROCYCLE AND AZABICYCLE IN GLICLAZIDE BULK BY CAPILLARY ELECTROPHORESIS WITH AMPEROMETRIC DETECTION

Qingjiang WANG, Jin LV, Xiang CHEN, Pingang HE and Yuzhi FANG

10:50-10:10 F23

ELECTROCHEMISTRY AND ELECTROANALYTICAL APPLICATIONS OF CARBON NANOTUBES

Kuanping GONG, Shaoxiang XIONG and Lanqun MAO*

10:10-10:25 Recess

Presiding: I.Taniguchi, X. Yang

10:25-10:55 F2

BIOSENSORS IN DRUG DISCOVERY AND DRUG ANALYSIS

Jean-Michel KAUFFMANN

10:55-11:05 F25

AMPEROMETRIC FLOW-INJECTION DETECTION OF ORGANOPHOSPHOROUS INSECTICIDE

Vivek Babu KANDIMALLA and Huangxian JU*

11:05-11:35 F26

IMMUNOASSAY BASED ON MICROELECTRODE ARRAY FOR HIGHTHROUGHPUT SCREENING OF BIOMARKERS

Mianhong SHI[1], Youyuan PENG[1], Jia ZHOU[2], Song ZHANG[1], Yipin HUANG[2], Baohong LIU[1] and Jilie KONG[1]*

OCTOBER 22, 2005 p.m. 1:30 -5:00(Saturday)
Site Meeting Room No.2
Presiding: J. M. Kaoffman Lianghong Guo

1:30-2:00 F10

ENVIRONMENTAL ANALYTICAL METHOD DEVELOPMENT

Huijun ZHAO, Richard JOHN and Peter TEASDALE

2:00-2:20 F28

APPLICATIONS OF RTILS ON ELECTRODERIVATIZATION OF SWNTS AND THE POLYELECTROLYTE-SUPPORTED RTILS

Yuanjian ZHANG, Yanfei SHEN, Qixian ZHANG and Li NIU*

2:20-2:40 F17

DETERMINATION OF DIFFUSION COEFFICIENT OF LITHIUM IN SILICON BY THE USE OF LI+ SENSITIVE W/WO3 ELECTRODE

Tsutomu TAKAMURA[1], Junji SUZUKI[2], Kazutaka YOSHIMURA[2] and Kyoichi SEKINE[2]

2:40-3:10 F16

Capillary Electrophoresis with Electrochemiluminescence Detection-Techniques and RELATED Applications

Erkang WANG

3:10-3:25 Recess
Presiding: P. Unwin, L.Mao
3:25-3:45 F33

GLUCOSE SENSORS BASED ON IMMOBILIZATION OF GLUCOSE OXIDASE AND QUARTERNIZATION OF CHITOSAN MULTILAYERS BY LAYER-BY-LAYER TECHNIQUE

Haibin SHI [1], Jing Li [1], Baoyan WU [1], Jiadong HUANG [1], Jun-ichi ANZAI [2], Tetsuo OSA [2] and Qiang CHEN [1] *

3:45-4:05 **F27**
INDIRECT DETERMINATION OF SERUM CALCIUM BY ELECTROCHEMILUMINESCENCE AND FLOW INJECTION
Lihong SHI, Xiaoqing LIU, Haijuan LI and Guobao XU*

4:05-4:25 **F30**
FABRICATION OF NANOWIRES BY AFM
Zhuang LI

POSTER

Oct. 21 Pm. 16:00-18:00

F32 ELECTROCHEMICAL DISPLACEMENT ASSAY FOR POLYCYCLIC AROMATIC HYDROCARBONS ON DNA FILM ELECTRODE
Chao LI, Mingyuan WEI, Qin ZHANG and Lianghong GUO*

F34 TUDY ON A HIGHLY-SENSITIVE GLUCOSE BIOSENSOR BASED ON SOL-GEL COMBINED WITH MILTI-WALLED CARBON NANOTUBES MODIFIED ELECTRODE
Jiadong HUANG [1],Jing LI [1], Baoyan WU [1], Haibin SHI [1], Jun-ichi ANZAI [2], Tetsuo OSA [2] and Qiang CHEN [1] *

F35 LAYER-BY-LAYER ASSEMBLED CARBON NANOTUBE MULTIPLAYER FILM AND ITS ELECTROCATALYSIS FOR CYSTEINE
Xu CHEN, Yi YANG and Mingyu DING*

F36 DETERMINATION OF EPINEPHRINE IN THE PRESENCE OF ASCORBIC ACID ON PYROLYTIC GRAPHITE ELECTRODES
Xiuhui LIU and Xiaoquan LU*

F37 PREPARATION AND ITS PROPERTIES OF NANOSTRUCTURE ANATASE TIO2 BY USING ROOM-TEMPERATURE IONIC LIQUIDS AS TEMPLATE SOLVENT
Yang Liu[1 2] and Xiurong Yang [1] *

F38 LECTROCHEMICAL GENERATION OF CONDUCTING POLYMER MICRO-RINGS
Jixia SONG[1,2], Qixian ZHANG [2], Dongxue HAN [2], Li NIU *[2] and Liping GUO *[1]

F39 ASSEMBLY OF PHOSPHOPOLYOXOMETALATES ON CARBON NANOTUBES PASTE ELECTRODE AND ITS ELECTROCATALYTIC BEHAVIORS TO BROMATE
Jianying QU[†,‡], Xiangqin ZOU[†,‡], Baifeng LIU[†] and Shaojun DONG[†,‡*]

F40 ELECTRODERIVATIZATION OF SWNTS AT A ROOM-TEMPERATURE IONIC LIQUID SUPPORTED THREE-DIMENSIONAL NETWORK ELECTRODE
Yuanjian ZHANG, Yanfei SHEN, Qixian ZHANG and Li NIU*

F41 ELECTROANALYSIS OF DOPAMINE IN ASCORBIC ACID ON BORON-DOPED DIAMOND ELECTRODE
Mingli LI[1], Guohua ZHAO[2] and Yuan QI[2]

F42 COPPER HEXACYANOFERRATE MULTILAYER FILMS ON GLASSY CARBON ELECTRODE MODIFIED WITH 4-AMINOBENZOIC ACID IN AQUEOUS SOLUTION
Guocheng YANG, Yan SHEN, Mingkui WANG, Baifeng LIU and Shaojun DONG*

F43 POLYELECTROLYTE-SUPPORTED IONIC LIQUID AS CATALYST FOR THE ELECTROCHEMICAL OXIDATION OF NADH
Yanfei SHEN, Yuanjian ZHANG, Qixian ZHANG and Li NIU*

F44 ON-LINE CLEAN-UP BY COLUMN SWITCHING LIQUID CHROMATOGRAPHY ATMOSPHERE PRESSURE CHEMICAL IONIZATION TRAP MASS SPECTROMETRY FOR QUANTIFICATION OF AMYGDALIN AND QUALITATIVE ANALYSIS OF ITS METABOLITES IN RABBIT SERUM
Xinfeng ZHAO[1], Xiaohui ZHENG1*, Jianbin ZHENG[1], Zhongqiu WANG[2] and Xin ZHAO[2]

F45 STUDY OF DNA/SMALL MOLECULE INTERACTION BY DNA FILM ELECTROCHEMISTRY
Mingyuan WEI, Chao LI and Lianghong GUO*

F46 ELECTROANALYSIS OF HEMOGLOBIN ON NANOSIZED COHCF MODIFIED ELECTRODE
Meichuan LIU, Yuezhong XIAN, Li ZHANG, Yuxiao CHENG and Litong JIN*

F47 SELECTIVE DETERMINATION OF TRYPTOPHAN BY USING A MODIFIED CARBON PASTE E1ECTRODE
Zhidong CHEN, Hui WANG, Wanqiang HE and Qimeng ZHANG

F48 GLASSY CARBON CERAMIC COMPOSITE ELECTRODES
Danzi SUN [a, b] and Guoyi ZHU [a] *

F49 FORMATION OF CUHCF NANOPARTICLE IN THE POLY(AMIDOAMINE) DENDRIMER AND ITS ELECTROCATALYSIS TOWARDS OXIDATION OF NO2-
Junhua YUAN, Qixian ZHANG and Li NIU *

F50 IMMOBILIZATION OF DNA ON 11-MERCAPTOUNDECANOIC ACID MODIFIED GOLD (111) SURFACE FOR ATOMIC FORCE MICROSCOPY IMAGING
Yonghai SONG, Zhuang LI*, Zhiguo LIU, Gang WEI, Li WANG and Lanlan SUN

F51 SOLUTION-PHASE SYNTHESIS OF ZNO NANOPARTICLES ON AU SPHERES
Lanlan SUN, Gang WEI, Yonghai SONG, Zhiguo LIU, Li WANG and Zhuang LI*

F52 FORMATION OF COPPER NANOSTRUCTURES VIA DIP-PEN NANOLITHOGRAPHY
Li WANG, Hualan ZHOU, Gang WEI, Zhiguo LIU, Yonghai SONG, Lanlan SUN and Zhuang LI*

F53 PH AND DNA MEDIATED FORMATION OF POLYANILINE/GOLD NANOWIRE AND THE MEASURMENT OF ITS CONDUCTIVITY
Gang WEI, Zhiguo LIU, Yonghai SONG, Li WANG, Lanlan SUN and Zhuang LI*

F54. INTERACTIONS BETWEEN α-ACTININ AND NEGATIVELY CHARGED LIPIDS MEMBRANE INVESTIGATED BY SURFACE PLASMON RESONANCE
Aixue Li[1, 2] and Xiurong Yang[1]*

F55. IONIC LIQUID AND HP-β-CD MODIFIED CAPILLARY ZONE ELECTROPHORESIS TO SEPARATE HYPEROSIDE, LUTEOLIN AND CHLOROGENIC ACID
Yueling WANG, Jun ZHANG, Xiangjun LI, Zhongbo HU and Zhuobin YUAN*

F56 SENSITIVE DETECTION OF URIC ACID AND ADENINE AT CARBON NANOTUBES-IONIC LIQUID GEL MODIFIED ELECTRODE

Yifang ZHAO, Tianle YE, Qiankun ZHUANG* and Zhiwei ZHU*

F57. PHOTOELECTROCHEMICAL DETECTION OF CHEMICALLY DAMAGED DNA ON RU(BPY)$_3$-MODIFIED TIN OXIDE NANOPARTICLE ELECTRODE

Minmin LIANG and Lianghong GUO

F58.ELECTROCHEMICAL PREPARATION OF WELL-DISPERSED POLYANILINE/CARBON NANOTUBE/GOLD AND POLYANILINE/CARBON NANOTUBE COMPOSITES

Zhijuan WANG, Liansheng JIAO, Qixian ZHANG and Li Niu* (1page)

F59. SYNTHESIS GOLD NANOPARTICLES EMBEDDED IN POLYELECTROLYTE MULTILAYERS FILM

Hongjun CHEN, Yuling WANG, Shaojun DONG* and Erkang WANG*

F60. STUDY THE INTERACTION OF BOVINE SERUM ALBUMIN WITH INDO 1 USING FLUORESCENCE TECHNIQUES ASSISTED BY ABSORPTION SPECTRUM

Haixin BAI [1 2] and Xiurong YANG [1 *]

F61. STUDIES ON THE INHIBITION OF THE GROWTH KINETICS OF LACTOBACILLUS BY STREPTOMYCIN WITH THE HELP OF CHMOMETRICS

Xiaolei Wang[1 2] Fan Yang[1] Yongnian Ni [2] and Xiurong Yang [1 *]

F62 DETERMINED THE MOISTURE CONTENT IN THIOALCOHOLS BY THE KARL FISCHER COULOMETRY

Tiejin YANG[1], Guangcheng WEI [1], Shiyi Zhu [1], Weibing ZHANG [2]

SCHEDULE OF SESSIONS
LIFE SCIENCE

ORAL LECTURES

2005-10-21 PM (Friday)
Site: Meeting Room No.4
Presiding: Siqi LIU

13:30 **G1** Towards Comprehensive Proteomic Analysis of Complexes, Organelles and Cells
John R. YATES

14:10 **G2** A Novel Approach for Purification of Complement Component 3 from Human Plasma
Yan REN, Zhuowei WANG, Ji XIA, Liang LIN, Ningzhi XU and Siqi LIU

14:40 **G3** Ontology-Based Genome Annotation, Comparison, and Pathway Identification
Tao CAI, Xizeng MAO and Liping WEI

15:10 **G4** MS and Informatics Strategies for Biomarker Discovery in Human Plasma
Leo BONILLA

15:40 **G5** Membrane-raft Proteome from Human HCC Huh7 Harboring Hepatitis C Virus Subgenomic Replicon
Caiyun FANG, Zhigang YI, Feng LIU, Qingping LIU, Haojie LU, Zhenghong YUAN and Pengyuan YANG

2005-10-22 AM (Saturday)
Presiding: Cornelius E. UBOH

8:30 **G6** Fighting Drug Use in Sports in The 21st century: Interfacing Chemistry to the rules of sport
Cornelius UBOH, Lawrence SOMA, Fuyu GUAN, Yi LUO, Wojciech KARPIESIUK and Thomas TOBIN

9:00 **G7** Capability of Ti(IV)-Porphyrin Reagent for the Determination of Trace Components in Human Serum
Kiyoko TAKAMURA

9:30 **G8** Tryptic Digestion of Glycoproteins with Intact Disulfide Bonds at Very Low Concentrations
Fuyu GUAN

10:00-10:30 **Coffee Break**

Presiding: Lawrence R. SOMA

10:30 **G9** Pharmacokinetic and Pharmacodynamic Models for the Study of Drugs of Abuse and Therapeutic Medications in the Equine Racing Industry
Lawrence R. SOMA, Cornelius E. UBOH , Fuyu GUAN, Yi LUO, Peter J. MOATE and Raymond C. BOSTON

11:00 **G10** Study of DNA/Small Molecule Interaction by DNA Film Electrochemistry
Liang-Hong GUO, Mingyuan WEI and Chao LI

11:30 **G11** Wavelet Frequency Spectrum and Its Application in Processing Nucleic Acid Sequence
Hongde LIU , Lan WANG, Limin ZHANG and Xiaoquan LU

2005-10-22 PM (Saturday)
Presiding: Qinhua Cindy RU

3:30 **G12** Comprehensive Serum Proteome Profiling of Breast Cancer with the Application of Multi-Dimensional Protein Identification Technology
Qinhua Cindy RU, Luwang Andy ZHU, Jordan SILBERMAN and Craig SHRIVER

13:50 **G13** Determination of Peroxynitrite Based on Peroxidase-oxidase Oscillation
Hongmei WANG, Jing XU, Mei SHAO, Zhihong LIU, Zhixin LIN and Ruxiu CAI

14:10 **G14** The Protection of NADH Against Hela Cells Apoptosis Induced by Sodium Selenite
Ju LIANG, Yi-yao YANG, Zhi-hong LIU, Ru-xiu CAI, Xin LIU , Yun-jun MEI and Peng SHEN

14:30 **G15** Different Immunoaffinity Strategies to Characterize the Human Plasma Proteome
Yan GONG, Bing YANG, Wantao YING, Yun CAI and Xiaohong QIAN

14:50-15:20 **Coffee Break**

Presiding: James J. BAO

15:20 **G16** Tackling the Bottleneck in Proteomics: Novel Approaches to the Separation, Transfer, and Identification of Proteins
James J. BAO, Dawei ZHOU, Huaifeng WANG and Yaoqing D. LIU

15:40 **G17** The Secretory Proteomes of Human Lung M-BE Cells at the Different Passages
Xiaomin LOU, Ting XIAO, Kang ZHAO, Shaokun SHU, Shujun CHENG, Yanning GAO, Siqi LIU and Ningzhi XU

16:10 **G18** Fluorescence Properties of Nanocrystalline Titania Sols and Its Application for Pharmaceutical Analysis
Yanting LI, Yunqing WANG, Cuihong SONG, Yu WEI, Yongju WEI and Yuzhu HU

16:30 **G19** Studying on Temperature-Dependent Glucokinase of *Thermoanaerobacter Tengcongensis* In vivo
Zhong QIAN, Jingqiang WANG, Xiaomin LOU, Chuanqi ZHOU, Bo MENG, Quanhui WANG, Yanhe MA and Siqi LIU

16:50 **G20** Comparison of Mitochondrial Proteomes from Different Mouse Tissues
Yuan WANG, Liang SHI, Jun ZHANG, Xiaomin LOU, Na LI, Shaokun SHU, Xishu CHEN, Kang ZHAO, Ningzhi XU and Siqi LIU

POSTER SESSION

Date: Oct. 21, 2005, 4:00-6:00 PM (Friday)
Site: Second Floor Corridor

G21 Two-dimensional Electrophoresis of Proteins by Linking an IEF Process in an IPG with Capillary Electrophoresis
Dawei ZHOU, Haiyong WANG, Huaifeng WANG, Yugao GUO, Ruijuan YUAN and James BAO

G22 Synchronous Fluorescence, UV-Visible Spectrophotometric and Voltammetric Study of the Competitive Interaction of $[Cu(Phen)_2]^{2+}$ and Neutral Red with DNA
Yongnian NI, Daiqin LIN and Serge KOKOT

G23 Fluorescence Quenching Mechanism of Magnolol in Organic Solvents
Hongmei LI, Yunqing WANG and Yuzhu HU

G24 Biomarkers of Alcohol Administration to Horses by High Performance Liquid Chromatography-Tandem Mass Spectrometry
Yi LUO , Cornelius UBOH , Lawrence SOMA and Fuyu GUAN

G25 Determination of Heteroelements in Proteins Using HPLC Sector-Field ICP-MS
Meike HAMESTER

G26 Increasing Coverage and Confidence in Protein Identifications from Complex Samples Using Microfluidic Nano LC/MS/MS
Shuolin SONG, Christine A. MILLER, Bryan D. MILLER, David M. HORN, Frank E. KUHLMANN, and Michael J. MANFREDI

G27 Using Normalized Cross-Correlation to Optimize Peptide Identification Shoutgun Proteomics
Bing YANG, Wantao YING, Yan GONG, Yangjun ZHANG, Yun CAI, Hongye DONG and Xiaohong QIAN

G28 Phosphoproteomics Analysis of Proteins from Human Liver
Shaohui SUI, Jinglan WANG, Jinfeng LIU, Zhuang LU, Yun CAI, Yangjun ZHANG and Xiaohong QIAN

G29 Comparison of four Recombination Human Erythropoietin Pharmaceutical Products by Matrix-Assisted Laser Desorption/Ionization Linear Time-Of-Flight Mass Spectrometry
Zhuang LU, Jingquan DAI, Jinglan WANG, Yangjun ZHANG, Wantao YING, Yun CAI and Xiaohong QIAN

G30 The Strategy Combined Cicat and MALDI-TOF-TOF for Proteome Quantitative
Qingfang MENG Yangjun ZHANG, Chunxi ZHOU, Yun CAI and Xiaohong QIAN

G31 Proteomic Analysis of the Membrane Proteins in *Alkalimonas amylolytica*
Bo MENG, Jingqiang WANG, Caifeng ZHAO, Xishu CHEN, Kang ZHAO, Quanhui WANG, Ningzhi XU, Yanhe MA, and Siqi LIU

G32 A Novel Approach for Purification of Complement Component 3 from Human Plasma
Yan REN, Zhuowei WANG, Ji XIA, Liang LIN, Ningzhi XU and Siqi LIU

G33 A New Method of Sample Preparation on Anchorchip for High-Throughput Determination of MALDI-TOF Spectrometry
Liang SHI, Xumin ZHANG, Peter ROEPSTORFF and Siqi LIU

G34 The Distribution of two Aldo-Keto Reductases in the Mouse
Shuyang TU, Haidan SUN, Ji XIA, Na LI, Xiaomin LOU, Shaokun SHU, Kang ZHAO, Ningzhi XU, and Siqi LIU

G35 The Membrane of *Alkalimonas Amylolytica* N10 Expressed at Different pH Environment
Quanhui WANG, Zhong QIAN, Bo MENG, Jingqiang WANG, Kang ZHAO, Siqi LIU and Yanhe MA

G36 Discovery of Biomarkers for Gastric Cancer: A Proteomic Analysis of Gastric Tissues in Ten Cases
Jun ZHANG, Na LI, Kang ZHAO, Shaokun SHU, Ningzhi XU, Siqi LIU and Youyong LU

G37 Cloning, Expression, and Characterization of the Temperature-Tolerated 6-Phosphofructokinase from *Thermoanaerobacter Tengcongensis*
Chuanqi ZHOU, Jingqiang WANG, Zhong QIAN, Bo MENG, Quanhui WANG, Yanhe MA and Siqi LIU

G38 A Powerful Systematic Method for Discovering Low-Abundance Ligands for PDZ Domain
Eli SONG

G39 Concanavalin a Captured Glycoproteins in Healthy Human Urine
Linjie WANG, Shuzhen WU, Xiaorong WANG and Youhe GAO

G40 Prediction of Domain-Ligand Interactions Using Machine Learning Approaches
Ling ZHANG, Chen SHAO and Youhe GAO

G41 Studying Erbin PDZ Binding Properties and Its Potential Ligands with Yeast Two-Hybrid Method
Shijuan GAO, Sucan MA, Ling ZHANG and Youhe GAO

SCHEDULE OF SESSIONS
ENVIRONMENTAL ANALYSIS

PLENARY LECTURES

2005-10-21 PM (Friday)
Site: Meeting Room No.6
Presiding: Guibin JIANG

13:30		Opening Address	
13:40	**H24**	Perchlorate, Where from, Wherein and What about it? Purnendu K. (Sandy) DASGUPTA	**Page 1**
14:20	**H60**	Sources, Atmospheric Transport and Fates of Pops in China Yifan LI	**Page 3**
15:00-15:20		**Coffee Break**	

Presiding: Purnendu K. (Sandy) DASGUPTA

15:20	**H53**	Indirect Indicators of Vitellogen in Chinese Loach (*Misgurnus angaillicaudatus*) Exposed to 17 β -Estradiol Xuefei LU, Maoyong SONG, Jing SHAO, Qunfang ZHOU and Guibin JIANG	**Page 54**
15:40	**H14**	Occurance and Elimination of Hazardous Substances in Municipal Wastewater Treatment Plants Hans FAHLENKAMP, Alfred GOLLOCH, Christoph B. HANNICH, Tobias NÖTHE and Thomas RIES	**Page 18**
16:00	**H43**	The Study of High Performance Organic Adsorbents Applied to Potable Water Advanced Treatment by SPME/GC/MS Yongjie ZHENG, Dezhi SUN, Xin ZHAO	**Page 114**
16:20	**H28**	Biotools for Detection of Organophosphorus and Carbamate Insecticides: from Research to Application T. RUYSSCHAERT, D. FOURNIER, S. EREMIA and J-L. MARTY	**Page 63**
16:30		**POSTER**	

2005-10-22 AM (Saturday)
Presiding: Jan Åke JÖNSSON

8:30	**H62**	Combined Ion-Mobility and Mass-Spectrometry Investigations of Metallothionein Complexes Using a Tandem Mass Spectrometer with a Segmented Second Quadrupole K.W. Michael SIU	**Page 5**
9:10	**H07**	Development a Simple and Efficient Master Replication Technique for Fabrication of Polymeric Microdevices Haifang LI, Jinming LIN	**Page 39**
9:30	**H64**	Performance Results for a New Purge and Trap Sample Concentrator; Eclipsing Old-Style Technology Laura CHAMBERS, Michael L. DUFFY	**Page 8**
9:50	**H37**	A New Kinetic Method for Detecting Phenoxyl Free Radicals Generated in Enzyme Reaction Jing XU, Xinguo WU, Ruxiu CAI and, Wei YAN	**Page 93**

10:10-10:30 COFFEE BREAK

Presiding: K.W. Michael SIU

10:30	**H26**	Determination of Iodine Species in Gaseous and Particulate Phases of the Coastal Atmosphere Hongwei CHEN, Rolf BRANDT, Rolf BANDUR and Thorsten HOFFMANN	**Page 12**
10:50	**H31**	Continuous, Real-Time Monitoring of Chemical Warfare Agents with High Sensitivity by Atmospheric-Pressure Chemical-Ionization/Mass Spectrometry Naoya EZAWA, Hidehiro OKADA, Yasuaki TAKADA, Akihiko OKUMURA, Izumi WAKI, Yasuo SETO, Isaku OHSAWA, Hisashi MARUKO and Hiroshi SEKIGUCHI	**Page 16**
11:10	**H23**	Rapid, Sensitive Detection of Polybrominated Diphenyl Ethers by Gas Chromatography Coupled to ICP-MS Steve WILBUR, Emmett SOFFEY, Fred FRYER, Christopher TYE	**Page 83**
11:30	**H11**	Development of a Micro-Plate Magnetic Chemiluminescence Enzyme Immunoassay (Mmcleia) for Rapid and High- Throughput Analysis of 17β-Estradiol in Water Samples Lixia ZHAO, Jinming LIN	**Page 109**

2005-10-22 PM (Saturday)
Presiding: Yifan Li

13:30	**H27**	Equilibrium Sampling Through Membranes (ESTM) for Determination of Freely Dissolved Fractions of Organic and Inorganic Pollutants Jan Åke JÖNSSON, Jingfu LIU, Philipp MAYER	**Page 2**
14:10	**H66**	Ion Chromatography – a Reliable and Accurate Way of Measuring Ionic Constituents in Environmental and Food Samples Joachim WEISS	**Page120**
14:50	**H52**	Electrochemical Preparation of Polyaniline/Ag Sol Coating on a Stainless-Steel Wire and Its Application in SPME Jianxia LU, Minjia HUANG, Zongshan ZHAO and Guibin JIANG	**Page 53**

15:10-15:30 COFFEE BREAK
Presiding: Jinming LIN

15:30	**H22**	Using Automated GC/MS Deconvolution Reporting Software to Find Trace Targets in Complex Matrices Chin-Kai MENG, Xiaofei PING	**Page 56**
15:50	**H12**	Flame Atomic Absorption Spectrometric Detemination of Chromium(VI) and Total Chromium in Water Samples by FI On-Line Preconcentration System Using Knotted Reactor Waraporn SOM-AUM	**Page 69**
16:10	**H51**	Equilibrium Sampling Through Membranes (ESTM) of Ionized Organic Acids Using Carrier-Facilitated Hollow Fiber Supported Liquid Membrane Jingfu LIU, Jan Åke JÖNSSON, Philipp MAYER and Guibin JIANG	**Page 46**
16:30	**H59**	Measurements of Carbonyl Compounds in Beijing Ambient Air Xiaobing PANG, Yujing MU	**Page 59**
16:50	**H41**	A Method for the Analysis of Polybrominated Diphenyl Ethers in Environmental Samples by Large-Volume Injection GC/Negative Chemical Ionization Low-Resolution MS Yuli ZHAO, Limin YANG, Qiuquan WANG	**Page 110**
17:10	**H32**	Global Diffuson Process Of Pollutants: The Role Played By The Marine Aerosol And The Sea-Surface Microlayer R. FUOCO, S. GIANNARELLI, Y. WEI, C. ABETE and M. TERMINE	**Page 26**

17:30 **H21** NELAC: ISO-based Environmental Testing Laboratory Standards for the United States **Page 37**
Carl KIRCHER, Stephen ARMS, Lara AUTRY

POSTER SESSION

2005-10-21 p.m.
Site: Second Floor Corridor

H15 Determination of Tetracyclines by Integrated Pulsed Amperometric Waveform Following HPLC **Page 6**
Yu-e CAI, Yaqi CAI, Shifen MOU and Yiqiang LU

H63 Volatile Petroleum Hydrocarbons by Purge and Trap **Page 9**
Laura CHAMBERS, Michael L. DUFFY

H47 Influences of Different Environment Conditions on Methylation Reaction of Tin(Ⅱ) with Methyl Iodide **Page 10**
Baowei CHEN, Ruiqiang YANG, Qunfang ZHOU, Jiyan LIU and Guibin JIANG

H01 Automatic, On-Line Monitoring of the Organic Pollutants in the Seawater Using the Home-Made Luminometer **Page 14**
Xianglei CHENG, Lixia Zhao, Jinming LIN

H13 Flocculation-ultrasonic Assisted Extraction and Solid Phase Clean-Up for the Determination of 16 Polycyclic Aromatic Hydrocarbons in Wastewater **Page 19**
Shunli FAN, Jinming LIN

H06 Determination of Benzenediols and 1,2,4-Benzenetr-Iol Using Liquid Chromatography with Potassium Permanganate Chemiluminescence Detection **Page 20**
Shunli FAN, LiKe ZHANG, Jinming LIN

H19 HRGC/MS Analysis Polychorinated Dibenzo-P-Dioxins and Dibenzofurans in Dicamba and 2,4-D **Page 22**
Liping FANG, Minghui ZHENG, Bing ZHANG, Ke XIAO, Lirong GAO and Wenbin LIU

H35 Determination of Environmental Pollutants by Novel SPME Coatings Coupled with GC-FID **Page 24**
Yueli FU, Yuling HU, Gongke LI

H48 Determination of Total Mercury, Methylmercury and Ethylmercury in Selected Chinese Coal Mines **Page 27**
Erle GAO, Bin HE, Lina LIANG and, Guibin JIANG

H20 Polychlorinated Dibenzo-P-Dioxins and Dibenzofurans in Sediments and Water from Dongting Lake in China **Page 30**
Lirong GAO, Minghui ZHENG, Xingru ZHAO, Bing ZHANG, Wenbin LIU

H25 A Mini Review on the Progress of the Synthesis and Analysis of Polymeric Hydroxyl-Aluminum in Aquatic Solution **Page 32**
Weiying HAN, Yuesheng XIE, Qiang MIAO and Shuping BI

H49 A Mass Spectrometry Platform for High-throughput Screening of Enzyme Inhibitor **Page 34**
Ligang HU, Songyun XU, Chensong PAN, Hanfa ZOU and Guibin JIANG

H50 Evaluate the Impacts of Some Environmentally Relevant Parameters on the Availability of Bisphenol a with Negligible Depletion SPME-HPLC **Page 36**
Xialin HU, Jingfu LIU, Jinfeng PENG and Guibin JIANG

H45 Evaluation of Multi-walled Carbon Nanotubes as a New Adsorbent for Collecting Volatile Organic Compounds in Ambient Air **Page 41**
Lin LI, Jiemin LIU, Jinxia ZHANG and Meijuan WEN

H36 Photoelectrochemical Detection of Chemically Damaged DNA on Ru(bpy)3-modified Tin Oxide Nanoparticle Electrode **Page 43**
Minmin LIANG, Lianghong GUO

H02 Rapid Determination of Residual Pesticides in Agricultural Products Using Online GPC- GC/MS **Page 47**
Libin LIU, Yuki HASHI, Yaping QIN, Haixia ZHOU and Jinming LIN

H08 Chemiluminescence Study on Peroxymonocarbonate and EU(Ⅱ)-EDTA **Page 49**
Meilin LIU, Xianglei CHENG, Jinming LIN

H03 Simultaneous Determination of Carbamate and Oganophosphous Pesticides in Vegetables and Fruits By Liquid Chromatography-Mass Spectrometry **Page 51**
Min LIU, Yuki HASHI, Yuanyuan SONG and Jinming LIN

H16 Direct Determination of Selenoamino Acids by Anion-Exchange Chromatography and Integrated Pulsed Amperometric Detector **Page 57**
Shumin MO, Lina LIANG, Yaqi CAI, Shifen MOU and Meijuan WEN

H54 Determination of Some Organic Pollutants in Environmental Samples by Liquid-Phase Microextraction Coupled with Liquid Chromatography **Page 61**
Jinfeng PENG, Jingfu LIU, Guibin JIANG

H17 The Study of Novel Simplified Column-Switching Technology for the Determination of Trace of Bromate in the Presence of High Concentration Matrices **Page 66**
Yali SHI, Yaqi CAI, Jingsheng LIU and Shifen MOU

H04 On-line Concentration of Polycyclic Aromatic Hydrocarbons with B-Cyclodextrin Modified Micellar Electrokinetic Chromatography Using Sweeping and Field-Enhanced Sample Injection **Page 71**
Guanqun SONG, Jinming LIN

H55 Measurement of Estrogenic Activity in River Sediments Using an ER-Mediated Receptor Cell Bioassay **Page 73**
Maoyong SONG, Xuefei LU, Guibin JIANG, Paul K.S. LAM and John P. GIESY

H65 The Influences of Phenol Destruction by Supercritical Water Oxidation **Page 75**
Jingchang WANG, Zhiyi LI, Xuewu LIU, Taliang YUAN and Ping ZANG

H56 Cloud Point Extraction Coupled with HPLC-UV for the Determination of Phthalate Esters in Environmental Water Samples **Page 77**
Ling WANG, Yaqi CAI, Bin HE, Yawei WANG, Chungang YUAN, Dazhong SHEN and Guibin JIANG

H09 Selective Determination of Bisphenol a (BPA) in Water by a Reversible Fluorescence Sensor Using Pyrene/Dimethyl β-Cyclodextrin Complex **Page 80**
Xu WANG, Jinming LIN

H57 Determination of Polybrominated Diphenyl Ethers in Sewage Sludge in China **Page 82**
Yawei WANG, Qinghua ZHANG, Hanxia LIU and Guibin JIANG

H05 Determination of 17beta-estradiol in Environmental Water Using Chemiluminescence Immunoassay Method **Page 84**
Danning WU, Lixia ZHAO, Jinming LIN

H30 Enrichment of Nicosulfuron, Thifensulfuron-Methyl and Metsulfuron-Methyl Using Carbon Nanotubes Packed Cartridge and their Ananlysis by High Performance Liquid Chromatography **Page 87**
Junping XIAO, Weidong WANG, Qingxiang ZHOU

H29 Development of Rapid Determination Method of Phenolic Compounds in Water Samples Using Alternating-Current Oscillopolarographic Titration **Page 89**
Junping XIAO, Qingxiang ZHOU, Xiaoyuan FAN, Huahua BAI and, Haijing DUAN

H18 Typical Dioxin Concentrations in Soils From Chinese Schistosomiasis Areas **Page 91**
Ke XIAO, Xingru ZHAO, Lirong GAO, Wenbin LIU, Bing ZHANG and Minghui ZHENG

H33 Progress on Electrokinetic Remediation Combined with Bioremediation for Contaminated Soils **Page 95**
Quan XU, Xiaocheng LU, Luhong CHEN and Shuping BI

H38 Determination of Complexing Capacity and Lability of Soluble Cadmium (II) Complex in Freshwater on a Kinetic Method by Dithiozone Extraction **Page 97**
Limin YANG, Zhixing NI, Xiaobo LI and Qiuquan WANG

H39 Measurement and Analysis of Air Pollutants in Underground Building **Page 99**
Rong YANG, Jianhua LIU, Songmei LI and Xuanjun WANG

H34 Applications of PSA and Dual-Layer SPE Cartridges For Cleanup of Agricultural Extracts **Page101**
Yuhui YANG

H40 Simultaneous Determination of Chromium(III) and Chromium(VI) by Ion Chromatography with Inductively Coupled Plasma-Mass Spectrometry **Page103**
Qi YAO, Zigang XU, Yan ZHU and Min ZHU

H10 Chiral Gel-Electrochromatography Separation in a Polydimethylsiloxane Microfluidic Device **Page105**
Hulie ZENG, Jinming LIN

H46 Determination of Volatile Organic Compounds in Indoor Air by Thermal Desorption and Gas Chromatography **Page107**
Jinxia ZHANG, Jiemin LIU, Lin LI and Meijuan WEN

H58 The Preparation of a New Coating on the Stainless Fiber for SPME and Its Application on the Extraction of the Derivant of Aniline **Page112**
Zongshan ZHAO, Minjia HUANG, Guibin JIANG, Jingtian HU and Jiyan LIU

H42 High Efficiency Organic Adsorbents for Advanced Treatment of Potable Water **Page116**
Yongjie ZHENG, Feng XU, Dezhi SUN

H44 A Sequential Injection Method for the Edetermination of Magnesium in Serum and Water Samples **Page118**
Hua ZHOU,Shihua FAN, Naizhi WANG



Welcome to

BCEIA 2007

第十二届北京分析测试学术报告会及展览会

The 12th International Beijing Conference and Exhibition on Instrumental Analysis

to be held on October
2007
in Beijing, China