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Foreword

Welcome to the Fourteenth Beijing Conference and Exhibition on Instrumental Analysis (BCEIA 2011)

Prof. Shunchang Wang

Chairman, Organizing Committee

Vice President, BCEIA 2011

September 15, 2011

The Fourteenth Beijing Conference and Exhibition on Instrumental Analysis (BCEIA 2011), sponsored by the China Association for Instrumental Analysis and approved by the Ministry of Science and Technology, China, will take place as scheduled on Oct. 13 to 16, 2011 with its conference at Beijing Central Garden Hotel and its exhibition at Beijing Exhibition Center, and with Dr. Weizhong Wang Vice Minister of the Ministry of Science and Technology, PRC, as its President, Prof. Fuchu HE, Academician, Chinese Academy of Sciences, as its Chairman of Scientific Committee.

Beginning from 1985, the BCEIA, a biennial event, has held successively and successfully twelve times. It is this year the worth celebrating 26th anniversary of BCEIA. We have joyfully seen overcoming the global economic crises influence China's economic development still keeps going up with more quick speed and analytic instrument market shows itself better trend still. BCEIA is becoming increasingly successful, having achieved great progress under the support and care from in full sail at home and abroad, and having made its valuable contribution to promoting the connection between instrument manufacturers and their users, strengthening the academic exchange between scientists and pushing forward the development of analytical instrument industry.

BCEIA 2011 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, Electro-analytical Chemistry, Life Science and Environmental Analysis. The theme of BCEIA 2011 will be "Analytical Sciences for Innovated Society". The plenary session will feature specially invited review lectures on the future of various fields of instrumental analysis given by nine internationally prominent scientists. There will be scholars from 19 countries and regions attending with 512 contributions, 146 of which made by foreign scholars.

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 11 exhibition halls, standard booth 765, and 19,410 square meters, and 378 instrument manufacturers from 16 countries and regions, of which: 96 foreign exhibitors, booth 255; 282 domestic exhibitors, booth 510 to display the latest, high-level products, including: instruments, equipment, reagents, software and services. Well-known analytical instruments magazines, publishers and online media will also be participating. During the exhibition, there will also be taking place "Symposium on applied technology of analytical instrument", "Ceremony for awarding BCEIA gold medal for outstanding homemade analytical instruments and for CAIA award issue" and "Technical exchange seminar" etc.

We believe that BCEIA 2011 will be a grand occasion with larger scale and higher level. We will be warmly welcoming guests from research institutes, universities, factories, enterprises, and departments of administration of science and technology throughout the country to BCEIA 2011 then!

BCEIA 2011 ORGANIZATION

President of BCEIA 2011

Dr. Weizhong WANG

Vice-Minister of the Ministry of Science and Technology, PRC

Vice-Presidents of BCEIA 2011

Prof. Ze ZHANG*

Zhejiang University

Prof. Shunchang WANG

Vice President of CAIA

Prof. Fuchu HE*

Beijing Proteome Research Center

Prof. Yuying ZHANG

General Secretary of CAIA

Organizing Committee of BCEIA 2011

Chairman

Prof. Shunchang WANG

Vice President of CAIA

Vice Chairman

Prof. Yuying ZHANG

General Secretary of CAIA

Prof. Qiankun ZHUANG

National Natural Science Foundation of China

Prof. Hongmei LI

National Institute of Metrology, China

Prof. Xiguan MA

Standing Member of CAIA

Prof. Yulin DENG

Beijing Institute of Technology

Prof. Xiaohong QIAN

Beijing Proteome Research Center

Members

Prof. Xiaogang CHU

Chinese Academy of Inspection and Quarantine

Prof. Lianghong GUO

Research Center for Eco-Environmental Sciences, CAS

Prof. Dapeng YU

Peking University

Prof. Xiaodong HAN

Beijing University of Technology

Prof. Jinying LI

Chinese Mass Spectrometry Society

Prof. Zeper ABLIZ

Chinese Academy of Medical Sciences

Prof. Xinrong ZHANG

Tsinghua University

Prof. Jinming LIN

Tsinghua University

Prof. Guowang XU

Dalian Institute of Chemical Physics, CAS

Prof. Maili LIU

Wuhan Institute of Physics and Mathematics, CAS

Prof. Bin XIA

Peking University

Prof. Yuanhua SHAO

Peking University

Prof. Lanqun MAO

Institute of Chemistry, CAS

Dr. Xuefei LV

Beijing Institute of Technology

Ms. Xiuli BI

Exhibition Affair Manager, CAIA

Ms. Su-an JIANG

Office Manager, Dept of Conference & Exhibition, CAIA

Prof. Zhengfan WANG

Consultative Committee, CAIA

Mr. Yang SONG

Consultative Committee, CAIA

Ms. Lili FAN

Consultative Committee, CAIA

Ms. Bitao YIN

Consultative Committee, CAIA



Scientific Committee of BCEIA 2011

Chairman

Prof. Fuchu HE* Beijing Proteome Research Center

Vice Chairman

Prof. Yukui ZHANG* Dalian Institute of Chemical Physics, CAS

Prof. Guibin JIANG* Research Center for Eco-Environmental Sciences, CAS

Members

Prof. Liang LI	University of Alberta, Canada
Prof. K. W. Michael SIU [#]	York University, Canada
Prof. Fusheng WEI*	China National Environmental Monitoring Center
Prof. Guofan JIN*	Tsinghua University
Prof. Knut W. URBAN	Institute of Solid State Research and Ernst Ruska Center for Microscopy and Spectroscopy with Electrons, Helmholtz Research Center Jülich, Germany
Prof. Hengqiang YE*	Institute of Metal, CAS
Prof. Ze ZHANG*	Zhejiang University
Prof. R. Graham COOKS	Purdue University, USA
Prof. Shuying LIU	Changchun Institute of Applied Chemistry, CAS
Prof. Reinhard NIESSNER	Technical University of Munich, Germany
Prof. Benli HUANG*	Xiamen University
Prof. Antonius KETTRUP	Technische Universität München, Germany
Prof. Peizhang LU*	Dalian Institute of Chemical Physics, CAS
Prof. Edward S. YEUNG	Iowa State University, USA
Prof. Nobuo TANAKA	Kyoto Institute of Technology, Japan
Prof. Yunyu SHI*	China University of Science and Technology
Prof. X. Chris LE [#]	University of Alberta, Canada
Prof. Er kang WANG*	Changchun Institute of Applied Chemistry, CAS
Prof. Hongyuan CHEN*	Nanjing University
Prof. Hubert H. GIRAULT	Ecole polytechnique fédérale de Lausanne, Switzerland

Scientific Committee Working Group

Convenors

Prof. Xiaohong QIAN (Analytical Techniques in Life Sciences)
Prof. Yulin DENG (Analytical Techniques in Life Sciences)

Members

Prof. Xiaogang CHU	(Analytical Techniques in Life Sciences)
Prof. Lianghong GUO	(Environmental Analysis)
Prof. Dapeng YU	(Electron Microscopy & Material Sciences)
Prof. Xiaodong HAN	(Electron Microscopy & Material Sciences)
Prof. Jinying LI	(Mass Spectrometry)
Prof. Zeper ABLIZ	(Mass Spectrometry)
Prof. Xinrong ZHANG	(Optical Spectroscopy)
Prof. Jinming LIN	(Optical Spectroscopy)
Prof. Guowang XU	(Chromatography)
Prof. Maili LIU	(Magnetic Resonance)
Prof. Bin XIA	(Magnetic Resonance)
Prof. Yuanhua SHAO	(Electroanalytical Chemistry)
Prof. Lanqun MAO	(Electroanalytical Chemistry)

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

[#] Fellow of the Royal Society of Canada

AGENDA OF PLENARY LECTURES

Time: Oct. 13, 2011 PM (Thursday)

Location: Central Garden Function Hall, Central Garden Hotel

Chairman: Prof. Ze ZHANG

- | | | |
|---------------------------------|----|--|
| 13:30-13:40 | | Opening Speech by Prof. Fuchu HE |
| 13:40-13:50 | | Opening Speech by Dr. Weizhong WANG |
| 13:50-14:35 | G1 | ROLE OF ADVANCED MEASUREMENT IN ADDRESSING NEW FOOD SAFETY ISSUES
Dr Derek CRASTON
The Government Chemist and Director, LGC Science & Technology, UK |
| 14:35-15:20 | A1 | NANOGENERATORS AND PIEZOTRONICS: IMPACT OF PIEZOELECTRIC NANOMATERIALS TO ENERGY SCIENCE AND ELECTRONICS
Prof. Zhonglin WANG
Georgia Institute of Technology, USA |
| 15:20-15:35 | | Coffee Break |
| Chairman: Prof. Fuchu HE | | |
| 15:35-16:20 | H1 | ENVIRONMENTAL NANOTECHNOLOGY FOR A SUSTAINABLE FUTURE
Prof. Wunmi A. SADIK
Department of Chemistry, State University of New York at Binghamton, USA |
| 16:20-17:05 | F1 | IMAGING AND DETECTING ELECTROCHEMICAL CURRENT OPTICALLY
Prof. Nongjian TAO
Arizona State University, USA |
| 17:05-17:50 | G2 | PROTEOME SEPARATION AND IDENTIFICATION IN CHINA
Prof. Pengyuan YANG
Fudan University, China |



第十四届北京分析测试学术报告会及展览会

Time: Oct. 14, 2011 AM (Friday)

Location: Central Garden Function Hall, Central Garden Hotel

Chairman: Prof. Pengyuan YANG

8:30-9:15 B1 HIGH ENERGY COLLISIONS ON TANDEM
TIME-OF-FLIGHT MASS SPECTROMETERS
Prof. Robert J. COTTER
Johns Hopkins University School of Medicine, USA

9:15-10:00 C1 FUNCTIONAL DNA SENSORS FOR PORTABLE
INSTRUMENTAL ANALYSIS OF A BROAD RANGE OF
TARGETS IN ENVIRONMENTAL MONITORING AND
MEDICAL DIAGNOSTICS
Prof. Yi LU
Departments of Chemistry, Biochemistry, Bioengineering and
Materials Science and Engineering, University of Illinois at
Urbana-Champaign, USA

10:00-10:15 **Coffee Break**

Chairman: Prof. Pengyuan YANG

10:15-11:00 D1 HIGH-PERFORMANCE COLUMNS FOR HPLC AND
THEIR OPERATION CONDITIONS
Prof. N. TANAKA
GL Sciences, Inc., and Kyoto Institute of Technology, Japan

11:00-11:45 E1 MACROMOLECULAR CROWDING & PROTEIN
CHEMISTRY: VIEWS FROM INSIDE & OUTSIDE CELLS
Prof. Gary J. PIELAK
The University of North Carolina at Chapel Hill, USA

11:45-12:30 F2 COUPLING AMPEROMETRY AND TOTAL INTERNAL
REFLECTION FLUORESCENCE MICROSCOPY FOR
MONITORING EXOCYTOSIS OF SINGLE VESICLES
Prof. Christian AMATORE
Ecole Normale Supérieure, France

AGENDA OF SESSIONS

A. ELECTRON MICROSCOPY&MATERIAL SCIENCES

Date	Time	Location & Activities	
Oct. 12 (Wed.)	8:00-24:00	Lobby, The Central Garden Hotel Registration	
Oct. 13 (Thu.)	AM 9:00-11:30	BCEIA2011 Exhibition Visit Location: Beijing Exhibition Center	
	PM 13:30-17:50	Central Garden Function Hall, Central Garden Hotel Opening Speech by Prof. Fuchu HE and Dr. Weizhong WANG BCEIA2011 General Plenary Session Chairman: Prof. Ze ZHANG and Prof. Fuchu HE G1, A1, H1, F1, G2	
	PM 18:30-20:30	Welcoming Banquet Location: Four Points by Sheraton Beijing, Haidian Hotel	
Oct. 14 (Fri.)	AM 8:30-12:30	Central Garden Function Hall, Central Garden Hotel BCEIA2011 General Plenary Session Chairman: Prof. Pengyuan YANG B1, C1, D1, E1, F2	
	PM 14:00-17:00	Oral Presentation Location: Room 202, Central Garden Function Hall, Central Garden Hotel A2, A3, A4, A5, A6, A7	Posters Location: 2 nd Floor of the Central Garden Hotel A24-A28
Oct. 15 (Sat.)	AM 8:30-11:30	Oral Presentation Location: Room 202, Central Garden Function Hall, Central Garden Hotel A8, A9, A10, A11, A12, A13	
	PM 14:00-17:00	Oral Presentation Location: Room 202, Central Garden Function Hall, Central Garden Hotel A14, A15, A16, A17, A18, A19	
Oct. 16 (Sun.)	AM 8:30-10:20	Oral Presentation Location: Room 202, Central Garden Function Hall, Central Garden Hotel A20, A21, A22, A23	
	PM	Conference Closed	

AGENDA OF SESSIONS

B. MASS SPECTROMETRY

Date	Time	Location & Activities	
Oct. 12 (Wed.)	8:00-24:00	Lobby, The Central Garden Hotel Registration	
Oct. 13 (Thu.)	AM 9:00-11:30	BCEIA2011 Exhibition Visit Location: Beijing Exhibition Center	
	PM 13:30-17:50	Central Garden Function Hall, Central Garden Hotel Opening Speech by Prof. Fuchu HE and Dr. Weizhong WANG BCEIA2011 General Plenary Session Chairman: Prof. Ze ZHANG and Prof. Fuchu HE G1, A1, H1, F1, G2	
	PM 18:30-20:30	Welcoming Banquet Location: Four Points by Sheraton Beijing, Haidian Hotel	
Oct. 14 (Fri.)	AM 8:30-12:30	Central Garden Function Hall, Central Garden Hotel BCEIA2011 General Plenary Session Chairman: Prof. Pengyuan YANG B1, C1, D1, E1, F2	
	PM 14:00-17:40	Oral Presentation Location: Room 203, Central Garden Function Hall, Central Garden Hotel B2, B3, B4, B5, B6, B7, B8, B9	Posters Location: 2 nd Floor of the Central Garden Hotel B34-B59
Oct. 15 (Sat.)	AM 8:30-12:00	Oral Presentation Location: Room 203, Central Garden Function Hall, Central Garden Hotel B10, B11, B12, B13, B14, B15, B16, B17	Posters Location: 2 nd Floor of the Central Garden Hotel B34-B59
	PM 13:30-17:20	Oral Presentation Location: Room 203, Central Garden Function Hall, Central Garden Hotel B18, B19, B20, B21, B22, B23, B24, B25, B26	Posters Location: 2 nd Floor of the Central Garden Hotel B34-B59
Oct. 16 (Sun.)	AM 8:30-11:30	Oral Presentation Location: Room 203, Central Garden Function Hall, Central Garden Hotel B27, B28, B29, B30, B31, B32, B33	Posters Location: 2 nd Floor of the Central Garden Hotel B34-B59
	PM	Conference Closed	

AGENDA OF SESSIONS

C. OPTICAL SPECTROSCOPY

Date	Time	Location & Activities	
Oct. 12 (Wed.)	8:00-24:00	Lobby, The Central Garden Hotel Registration	
Oct. 13 (Thu.)	AM 9:00-11:30	BCEIA2011 Exhibition Visit Location: Beijing Exhibition Center	
	PM 13:30-17:50	Central Garden Function Hall, Central Garden Hotel Opening Speech by Prof. Fuchu HE and Dr. Weizhong WANG BCEIA2011 General Plenary Session Chairman: Prof. Ze ZHANG and Prof. Fuchu HE G1, A1, H1, F1, G2	
	PM 18:30-20:30	Welcoming Banquet Location: Four Points by Sheraton Beijing, Haidian Hotel	
Oct. 14 (Fri.)	AM 8:30-12:30	Central Garden Function Hall, Central Garden Hotel BCEIA2011 General Plenary Session Chairman: Prof. Pengyuan YANG B1, C1, D1, E1, F2	
	PM 14:00-17:40	Oral Presentation Location: Room 201, Central Garden Function Hall, Central Garden Hotel C2, C3, C4, C5, C6, C7, C8, C9, C10, C11, C12	
Oct. 15 (Sat.)	AM 8:00-12:00	Oral Presentation Location: Room 201, Central Garden Function Hall, Central Garden Hotel C13, C14, C15, C16, C17, C18, C19, C20, C21, C22	Posters Location: 2 nd Floor of the Central Garden Hotel C35-C69
	PM 13:30-18:00	Oral Presentation Location: Room 201, Central Garden Function Hall, Central Garden Hotel C23, C24, C25, C26, C27, C28, C29, C30, C31, C32, C33, C34	

AGENDA OF SESSIONS

D. CHROMATOGRAPHY

Date	Time	Location & Activities	
Oct. 12 (Wed.)	8:00-24:00	Lobby, The Central Garden Hotel Registration	
Oct. 13 (Thu.)	AM 9:00-11:30	BCEIA2011 Exhibition Visit Location: Beijing Exhibition Center	
	PM 13:30-17:50	Central Garden Function Hall, Central Garden Hotel Opening Speech by Prof. Fuchu HE and Dr. Weizhong WANG BCEIA2011 General Plenary Session Chairman: Prof. Ze ZHANG and Prof. Fuchu HE G1, A1, H1, F1, G2	
	PM 18:30-20:30	Welcoming Banquet Location: Four Points by Sheraton Beijing, Haidian Hotel	
Oct. 14 (Fri.)	AM 8:30-12:30	Central Garden Function Hall, Central Garden Hotel BCEIA2011 General Plenary Session Chairman: Prof. Pengyuan YANG B1, C1, D1, E1, F2	
	PM 13:30-17:15	Oral Presentation Location: Harmonious Garden Hall, Central Garden Hotel D2, D3, D4, D5, D6, D7, D8, D9, D10	Posters Location: Harmonious Garden Hall D42-D64
Oct. 15 (Sat.)	AM 8:30-12:10	Oral Presentation Location: Harmonious Garden Hall, Central Garden Hotel G13, D22, G14, D23, G15, D24, G16, D25	
	PM 13:30-17:15	Oral Presentation Location: Harmonious Garden Hall, Central Garden Hotel D11, D12, D13, D14, D15, D16, D17, D18, D19	Posters Location: Harmonious Garden Hall D65-D87
Oct. 16 (Sun.)	AM 8:30-11:40	Oral Presentation Location: Harmonious Garden Hall, Central Garden Hotel D20, D21, D26, D27, D28, C29, D30, D31	
	PM 13:30-16:50	Oral Presentation Location: Harmonious Garden Hall, Central Garden Hotel D32, D33, D34, D35, D36, D37, D38, D39, D40, D41	

AGENDA OF SESSIONS

E. MAGNETIC RESONANCE

Date	Time	Location & Activities	
Oct. 12 (Wed.)	8:00-24:00	Lobby, The Central Garden Hotel Registration	
Oct. 13 (Thu.)	AM 9:00-11:30	BCEIA2011 Exhibition Visit Location: Beijing Exhibition Center	
	PM 13:30-17:50	Central Garden Function Hall, Central Garden Hotel Opening Speech by Prof. Fuchu HE and Dr. Weizhong WANG BCEIA2011 General Plenary Session Chairman: Prof. Ze ZHANG and Prof. Fuchu HE G1, A1, H1, F1, G2	
	PM 18:30-20:30	Welcoming Banquet Location: Four Points by Sheraton Beijing, Haidian Hotel	
Oct. 14 (Fri.)	AM 8:30-12:30	Central Garden Function Hall, Central Garden Hotel BCEIA2011 General Plenary Session Chairman: Prof. Pengyuan YANG B1, C1, D1, E1, F2	
	PM 14:00-17:40	Oral Presentation for E-sessions Location: Bright Garden Hall, Central Garden Hotel E2, E3, E4, E5, E6, E7, E8, E9	
Oct. 15 (Sat.)	AM 8:30-11:55	Oral Presentation Location: Bright Garden Hall, Central Garden Hotel E10, E11, E12, E13, E14, E15, E16, E17	
	PM 13:30-16:45	Oral Presentation Location: Bright Garden Hall, Central Garden Hotel E18, E19, E20, E21, E22, E23, E24	Posters Location: 2 nd Floor of the Central Garden Hotel E37-E48
Oct. 16 (Sun.)	AM 8:30-11:55	Oral Presentation Location: Bright Garden Hall, Central Garden Hotel E25, E26, E27, E28, E29, E30, E31, E32	
	PM 13:30-15:00	Oral Presentation Location: Bright Garden Hall, Central Garden Hotel E33, E34, E35, E36	

AGENDA OF SESSIONS

F. ELECTROANALYTICAL CHEMISTRY

Date	Time	Location & Activities	
Oct. 12 (Wed.)	8:00-24:00	Lobby, The Central Garden Hotel Registration	
Oct. 13 (Thu.)	AM 9:00-11:30	BCEIA2011 Exhibition Visit Location: Beijing Exhibition Center	
	PM 13:30-17:50	Central Garden Function Hall, Central Garden Hotel Opening Speech by Prof. Fuchu HE and Dr. Weizhong WANG BCEIA2011 General Plenary Session Chairman: Prof. Ze ZHANG and Prof. Fuchu HE G1, A1, H1, F1, G2	
	PM 18:30-20:30	Welcoming Banquet Location: Four Points by Sheraton Beijing, Haidian Hotel	
Oct. 14 (Fri.)	AM 8:30-12:30	Central Garden Function Hall, Central Garden Hotel BCEIA2011 General Plenary Session Chairman: Prof. Pengyuan YANG B1, C1, D1, E1, F2	
	PM 13:30-17:20	Oral Presentation Location: Room 204, Central Garden Function Hall, Central Garden Hotel F3, F4, F5, F6, F7, F8, F9, F10, F11, F12	
Oct. 15 (Sat.)	AM 8:00-11:55	Oral Presentation Location: Room 204, Central Garden Function Hall, Central Garden Hotel F13, F14, F15, F16, F17, F18, F19, F20, F21, F22, F23	Posters Location: 2 nd Floor of the Central Garden Hotel F47-F76
	PM 13:30-17:45	Oral Presentation Location: Room 204, Central Garden Function Hall, Central Garden Hotel F24, F25, F26, F27, F28, F29, F30, F31, F32, F33, F34, F35, F36	
Oct. 16 (Sun.)	AM 8:00-12:00	Oral Presentation Location: Room 204, Central Garden Function Hall, Central Garden Hotel F37, F38, F39, F40, F41, F42, F43, F44, F45, F46	
	PM	Conference Closed	

AGENDA OF SESSIONS

G. ANALYTICAL TECHNIQUES IN LIFE SCIENCES

Date	Time	Location & Activities	
Oct. 12 (Wed.)	8:00-24:00	Lobby, The Central Garden Hotel Registration	
Oct. 13 (Thu.)	AM 9:00-11:30	BCEIA2011 Exhibition Visit Location: Beijing Exhibition Center	
	PM 13:30-17:50	Central Garden Function Hall, Central Garden Hotel Opening Speech by Prof. Fuchu HE and Dr. Weizhong WANG BCEIA2011 General Plenary Session Chairman: Prof. Ze ZHANG and Prof. Fuchu HE G1, A1, H1, F1, G2	
	PM 18:30-20:30	Welcoming Banquet Location: Four Points by Sheraton Beijing, Haidian Hotel	
Oct. 14 (Fri.)	AM 8:30-12:30	Central Garden Function Hall, Central Garden Hotel BCEIA2011 General Plenary Session Chairman: Prof. Pengyuan YANG B1, C1, D1, E1, F2	
	PM 14:00-17:50	Oral presentation Location: Splendid Garden Hall, 2nd Floor of the Central Garden Hotel G3, G4, G5, G6, G7, G8, G9, G10, G11, G12	Posters Location: 2nd Floor of the Central Garden Hotel G48-G62
Oct. 15 (Sat.)	AM 08:30-12:10	Oral presentation (co-hosted by Session D & Session G) Location: Harmonious Garden Hall, 2nd Floor of the Central Garden Hotel G13, D22, G14, D23, G15, D24, G16, D25	Posters Location: 2nd Floor of the Central Garden Hotel G33-G75
	PM 13:30-17:20	Oral presentation Location: Splendid Garden Hall, 2nd Floor of the Central Garden Hotel G17, G18, G19, G20, G21, G22, G23, G24	Posters Location: 2nd Floor of the Central Garden Hotel G33- G75



第十四届北京分析测试学术报告会及展览会

Oct. 16 (Sun.)	AM 08:30- 11:30	Oral presentation Location: Splendid Garden Hall, 2nd Floor of the Central Garden Hotel G25, G26, G27, G28, G29, G30, G31	Posters Location: 2nd Floor of the Central Garden Hotel G33- G75
	AM 11:30- 11:40	Conference Closing & Poster Awarding	
	PM	Conference Closed	

AGENDA OF SESSIONS

H. ENVIRONMENTAL ANALYSIS

Date	Time	Location & Activities	
Oct. 12 (Wed.)	8:00-24:00	Lobby, The Central Garden Hotel Registration	
Oct. 13 (Thu.)	AM 9:00-11:30	BCEIA2011 Exhibition Visit Location: Beijing Exhibition Center	
	PM 13:30-17:50	Central Garden Function Hall, Central Garden Hotel Opening Speech by Prof. Fuchu HE and Dr. Weizhong WANG BCEIA2011 General Plenary Session Chairman: Prof. Ze ZHANG and Prof. Fuchu HE G1, A1, H1, F1, G2	
	PM 18:30-20:30	Welcoming Banquet Location: Four Points by Sheraton Beijing, Haidian Hotel	
Oct. 14 (Fri.)	AM 8:30-12:30	Central Garden Function Hall, Central Garden Hotel BCEIA2011 General Plenary Session Chairman: Prof. Pengyuan YANG B1, C1, D1, E1, F2	
	PM 13:30-17:30	Oral Presentation Location: Permanent Garden Hall, Central Garden Hotel H2, H3, H4, H5, H6, H7	Posters Location: 2 nd Floor of the Central Garden Hotel H28-H41
Oct. 15 (Sat.)	AM 8:30-11:40	Oral Presentation Location: Permanent Garden Hall, Central Garden Hotel H8, H9, H10, H11, H12, H13, H14	Posters Location: 2 nd Floor of the Central Garden Hotel H42-H56
	PM 13:30-17:00	Oral Presentation Location: Permanent Garden Hall, Central Garden Hotel H15, H16, H17, H18, H19, H20, H21	Posters Location: 2 nd Floor of the Central Garden Hotel H57-H70
Oct. 16 (Sun.)	AM 8:30-11:35	Oral Presentation Location: Permanent Garden Hall, Central Garden Hotel H22, H23, H24, H25, H26, H27	
	PM	Conference Closed	



SCHEDULE OF SESSIONS

A. ELECTRON MICROSCOPY&MATERIAL SCIENCES

CHAIRMAN: Prof. Dapeng YU

ORAL LECTURES

Time: Oct. 14, 2011 PM (Friday)

Location: Room 202, Central Garden Function Hall, Central Garden Hotel

Chairman: Prof. Dapeng YU

14:00-14:10 **Sub-session Opening: Prof. Ze ZHANG/Prof. Hengqiang YE**

Chairman: Prof. Hengqiang YE

14:10-14:40 A2 **TIME RESOLVED CATHODOLUMINESCENCE: A NEW TOOL TO INVESTIGATE THE NANOWORLD**
Jean-Daniel GANIERE (Keynote)
Ecole Polytechnique Fédérale de Lausanne, Switzerland

14:40-15:10 A3 **THE DEEP LINK BETWEEN FCC AND BCC METALS--- NANO MECHANICS WITH IN SITU TEM**
Zhiwei SHAN (Keynote)
Xi'an Jiaotong University, China

15:10-15:30 A4 **DIRECT OBSERVATION OF LITHIUM IONS AT ATOMIC RESOLUTION USING AN ABERRATION-CORRECTED ANNULAR-BRIGHT-FIELD IMAGING CONDITION**
Lin GU
The Institute of Physics, CAS, China

15:30-15:50 **Coffee Break & Poster session**

Chairman: Prof. Jean-Daniel GANIERE

15:50-16:20 A5 **STACKING FAULTS IN C14 LAVES PHASE**
Hengqiang YE (Keynote)
Metal Research Institute, CAS, China

16:20-16:50 A6 **STRUCTURE DETERMINATION FOR SMALL PRECIPITATES IN ALUMINUM BY ATOMIC-RESOLUTION IMAGING**
Jianghua CHEN (Keynote)
HuNan University, China

The 14th Beijing Conference and Exhibition on Instrumental Analysis

16:50-17:10 A7 IN SITU TRANSMISSION ELECTRON MICROSCOPY
STUDIES OF AGEING PROCESS OF THE CONTINUOUS
PRECIPITATED PHASES IN AN MG-AL-ZN-SN ALLOY
Dongshan ZHAO
Wuhan University, China

Time: Oct. 15, 2011 AM (Saturday)

Location: Room 202, Central Garden Function Hall, Central Garden Hotel

Chairman: Prof. Jing ZHU

8:30-9:00 A8 IMAGING AND SPECTROSCOPY OF INDIVIDUAL ATOMS
BY ELECTRON MICROSCOPY
Kazu SUENAGA (Keynote)
National Institute of Advanced Industrial Science and
Technology, Japan

9:00-9:30 A9 HCP TO BCC MARTENSITIC TRANSFORMATION IN PURE
FE AND TI-BASED ALLOY
Manling SUI (Keynote)
Beijing University of Technology, China

9:30-9:50 A10 ASSESSING SIZE DISTRIBUTION OF QUANTUM DOTS
BY GAS-PHASE ELECTROPHORETIC MOBILITY
MACROMOLECULE/NANOPARTICLE ANALYZER
Qidan CHEN
The University of Hong Kong, China

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

Chairman: Prof. Kazu SUENAGA

10:10-10:40 A11 APPLICATION OF ABERRATION CORRECTED ELECTRON
MICROSCOPY
Jing ZHU (Keynote)
Tsinghua University, China

10:40-11:10 A12 TEXTURED NIOBATE CERAMICS AND A-SITE
DEFICIENCY IN TUNGSTEN BRONZE STRUCTURE
Hui GU (Keynote)
Shanghai Institute of Ceramics, CAS, China



第十四届北京分析测试学术报告会及展览会

11:10-11:30 A13 HYPERDSC CHARACTERIZATION OF POLYKETONE
COPOLYMERS
Peng YE
PerkinElmer, Shelton, USA

Time: Oct. 15, 2011 PM (Saturday)

Location: Room 202, Central Garden Function Hall, Central Garden Hotel

Chairman: Prof. Dapeng YU

14:00-14:30 A14 NEW TEM TECHNIQUES FOR STRUCTURE
CHARACTERIZATION – SOFTWARE-BASED PRECESSION
ELECTRON DIFFRACTION (PED), ROTATION ELECTRON
DIFFRACTION (RED) TOMOGRAPHY AND THROUGH-
FOCUS STRUCTURE RECONSTRUCTION
Xiaodong ZOU (Keynote)
Stockholm University, Sweden

14:30-15:00 A15 ZB/WZ HOMOSTRUCTURE/HETEROSTRUCTURE
JUNCTIONS IN ZNSE NANOMATERIALS
Jianbo WANG (Keynote)
WuHan University, China

15:00-15:20 A16 UV AND OZONE SAMPLE CLEANING OF SURFACE
HYDROCARBON CONTAMINATION WITH ZONE
Charles SOONG
Hitachi High-Technologies Canada, Canada

15:20-15:40 **Coffee Break**

Chairman: Prof. Manling SUI

15:40-16:10 A17 SETTING UP A NANOLAB INSIDE A TEM
Litao SUN (Keynote)
Southeast University, China

16:10-16:40 A18 GE BASED DILUTED MAGNETIC SEMICONDUCTOR
NANOSTRUCTURES
Yong WANG (Keynote)
The University of Queensland, Australia

The 14th Beijing Conference and Exhibition on Instrumental Analysis

16:40-17:00 A19 RETROFITTABLE NANO-MANIPULATION SYSTEM FOR
SCANNING ELECTRON MICROSCOPE
P. WOO
Hitachi High-Technologies Canada, Canada

Time: Oct. 16, 2011 AM (Sunday)

Location: Room 202, Central Garden Function Hall, Central Garden Hotel

Chairman: Prof. Hui GU

8:30-9:00 A20 PRECISE INVESTIGATION OF OPTICAL/ELECTRONIC
FINE STRUCTURES OF NANOSTRUCTURES VIA
CATHODOLUMINESCENCE SPECTROSCOPY
Dapeng YU (Keynote)
Peking University, China

9:00-9:30 A21 ATOMIC SCALE IN-SITU DEFORMATION DYNAMICS
OF NANOWIRES AND NANOFILMS BY TRANSMISSION
ELECTRON MICROSCOPY
Xiaodong HAN (Keynote)
Beijing University of Technology, China

9:30-10:00 A22 COEXISTENCE OF TWO STRUCTURE PHASES IN
 $K_{0.8-X/8}Fe_{1.6+X}Se_2$ SUPERCONDUCTORS
AS SEEN VIA TRANSMISSION ELECTRON MICROSCOPY
Jianqi LI (Keynote)
Institute of Physics, CAS, China

10:00-10:20 A23 ABERRATION-CORRECTED TEM STUDIES OF OXIDE
SURFACES
Rong YU
Tsinghua University, China

10:20 **Closing: Prof. Ze ZHANG and Prof. Hengqiang YE**



POSTER SESSION

Time: Oct. 15, 2011 PM (Saturday) 15:00-17:00

Location: 2nd Floor of the Central Garden Hotel

- A24 pH/MAGNETISM-RESPONSIVE IMPRINTED NANOPARTICLES
FOR RECOGNITION AND SEPARATION OF PROTEASE IN
AQUEOUS SOLUTION
Lin LI and Ruihua LIU
College of Pharmacy and Tianjin Key Laboratory of Molecular Drug
Research, Nankai University, Tianjin 300071, China
- A25 ADSORPTION OF GUANINE ON Au(111) ELECTRODE STUDIED
BY SCANNING TUNNELING MICROSCOPY
Wenshu YANG and Bailin ZHANG
State Key Laboratory of Electroanalytical Chemistry, Changchun Institute
of Applied Chemistry and Graduate School of Chinese Academy of
Sciences, Chinese Academy of Sciences, Changchun 130022, People's
Republic of China
- A26 PHASE QUANTIFICATION OF CRYSTALLINE COMPOUNDS IN
THE NATURAL GAS CATALYST FOR SECONDARY REFORMING
BY POWDER X-RAY DIFFRACTOMETRY
Ruifeng LI, Yajing WANG, Shixing BAO and Xiang LI
Instrumental Analysis Laboratory, Daqing Chemical Engineering
Research Center. Daqing 163714, China
- A27 PHASE ANALYSIS OF CRYSTALLINE COMPOUNDS IN THE
NATURAL GAS CATALYSTS FOR PRIMARY REFORMING BY
X-RAY POWDER DIFFRACTOMETRY
Ruifeng LI, Yajing WANG and Xiang LI
Instrumental Analysis Laboratory, Daqing Chemical Engineering
Research Center. Daqing 163714, China
- A28 MICROSCOPIC STRUCTURE OF GRAPHENE MEMBRANE
SYNTHESIZED BY A NEWLY REDUCED METHOD
Fei HAN, Yongzhen WANG, Zhihui LI and Xiaomin WANG
College of Materials Science and Engineering, Taiyuan University of
Technology, Taiyuan 030024, China

SCHEDULE OF SESSIONS

B. MASS SPECTROMETRY

CHAIRMAN: Prof. Jinying LI and Prof. Zeper ABLIZ

ORAL LECTURES

Time: Oct. 14, 2011 PM (Friday)

Location: Room 203, Central Garden Function Hall, Central Garden Hotel

Chairman: Prof. Zeper ABLIZ and Prof. Akos VERTES

- | | | |
|-------------|----|--|
| | | MASS SPECTROMETRY FOR CLINICAL GLYCOPROTEOMICS
Prof. Yoshinao WADA (Keynote) |
| 14:00-14:30 | B2 | Osaka Medical Center and Research Institute for Maternal and Child Health / Osaka University Graduate School of Medicine, Japan |
| | | MASS SPECTROMETRIC ANALYSIS OF TISSUES, SINGLE CELLS AND SUBCELLULAR COMPONENTS
Prof. Akos VERTES (Keynote) |
| 14:30-14:50 | B3 | Institute for Proteomics Technology and Applications, Department of Chemistry, George Washington University, USA |
| | | TIP ELECTROSPRAY IONIZATION AND DIRECT IONIZATION ANALYSIS OF BIOLOGICAL TISSUE
Prof. Zhongping YAO (Keynote) |
| 14:50-15:10 | B4 | Department of Applied Biology and Chemical Technology, The Hong Kong Polytechnic University, Hong Kong |
| | | EXTENDING DETECTABLE PROTEOMIC DYNAMIC RANGE WITHOUT FRACTIONATION USING DATA INDEPENDENT ACQUISITION
Prof. David Robinson GOODLETT (Keynote) |
| 15:10-15:40 | B5 | Dept. of Medicinal Chemistry, University of Washington, USA |
| 15:40-15:50 | | Coffee Break |
| | | SPRAY DESORPTION COLLECTION: A NOVEL SURFACE SAMPLING STRATEGY FOR TRACE LEVEL COLLECTION FROM LARGE AREAS
Prof. Andre R. VENTER (Keynote) |
| 15:50-16:20 | B6 | Department of Chemistry, Western Michigan University, USA |



第十四届北京分析测试学术报告会及展览会

MASS SPECTROMETRY-BASED PROTEOMIC TOOLS FOR MOLECULAR SIGNALING
16:20-16:40 B7 **Prof. W. Andy TAO** (Keynote)
Department of Biochemistry, Department of Med. Chem. and Mol. Pharm, Purdue University, USA

QUANTITATIVE PHOSPHOPROTEOMICS – A NEW LC-MS/MS EXPERIMENTAL APPROACH
16:40-17:10 B8 **Prof. Rong WANG** (Keynote)
Department of Genetics and Genomic Sciences, Mount Sinai School of Medicine, USA

DEVELOPMENT OF A NOVEL AFAI-MS IMAGING METHOD FOR THE WHOLE-BODY DISTRIBUTION ANALYSIS OF DRUG IN RATS
17:10-17:40 B9 **Prof. Zeper ABLIZ** (Invited)
Institute of Materia Medica, Chinese Academy of Medical Sciences & Peking Union Medical College, China

Time: Oct.15, 2011 AM (Saturday)

Location: Room 203, Central Garden Function Hall, Central Garden Hotel

Chairman: Dr. Shida SHEN and Prof. Jantaie SHIEA

APPLICATION OF IMAGING TOF-SIMS FOR THE STUDY AND EXTRACTION OF SMALL FEATURES IN SAMPLES OF ENVIRONMENTAL INTEREST
8:30-9:00 B10 **Prof. Rana N. S. SODHI** (Keynote)
Surface Interface Ontario, Department of Chemical Engineering and Applied Chemistry, University of Toronto, Canada

MOBILE AMBIENT MASS SPECTROMETRY: A TECHNIQUE FOR IN-SITU DETECTION OF TAINTED PLASTICIZER IN FOODS AND COMMON COMMODITIES
9:00-9:20 B11 **Prof. Jantaie SHIEA** (Keynote)
Department of Chemistry, National Sun Yat-Sen University, Taiwan

MASS SPECTROMETRY IMAGING OF GANGLIOSIDES SPECIES IN MOUSE BRAIN
9:20-9:40 B12 **Prof. Jianjun LI** (Keynote)
Institute for Biological Sciences, National Research Council Canada, Canada

The 14th Beijing Conference and Exhibition on Instrumental Analysis

9:40-10:10 B13 THE CONCEPT AND APPLICATION OF SPECTRAL ACCURACY FOR MASS SPECTROMETRY
Dr. Yongdong WANG (Keynote)
Cerno Bioscience, USA

10:10-10:20

Coffee Break

10:20-10:50 B14 SOLUTION FOR SPECIALIZED MASS SPECTROMETRY ANALYSIS: PAPER SPRAY
Prof. Zheng OUYANG (Keynote)
Weldon School of Biomedical Engineering and Department of Chemistry, Purdue University, USA

10:50-11:10 B15 A NEWLY DEVELOPED DIRECT SAMPLE ANALYSIS (DSA) ION SOURCE AND ITS APPLICATIONS
Dr. Shida SHEN (Keynote)
PerkinElmer, Inc. USA

11:10-11:30 B16 DETERMINATION OF DIURETICS IN URINE USING IMMOBILIZED-MULTIWALLED CARBON NANOTUBES HOLLOW FIBER LIQUID-PHASE MICROEXTRACTION COMBINED WITH LIQUID CHROMATOGRAPHY-MASS SPECTROMETRY
Prof. Maw-Rong LEE (Keynote)
Department of Chemistry, National Chung Hsing University, Taiwan

11:30-12:00 B17 MICROFLUIDIC CHIP-BASED LIQUID-CHROMATOGRAPHY MASS SPECTROMETRY FOR QUANTITATIVE DETERMINATION OF SMALL MOLECULES FOR BIOANALYTICAL APPLICATION
Prof. Ming-Ren FUH (Keynote)
Department of Chemistry, Soochow University, Taiwan

Time: Oct 15, 2011 PM (Saturday)

Location: Room 203, Central Garden Function Hall, Central Garden Hotel

Chairman: Prof. Huanwen CHEN and Prof. Zhongxing CHEN

13:30-14:00 B18 ELEMENTAL FRACTIONATION IN LA-ICP-MS: WHAT WE KNOW SO FAR
Prof. Zhongxing CHEN (Keynote)
Department of Earth and Planetary Sciences, Harvard University, USA



- METHODS TO IMPROVE PRECISION FOR OXYGEN ISOTOPE ANALYSIS USING CAMECA IMS-1280 SIMS
14:00-14:20 B19 **Dr. Guoqiang TANG** (Invited)
State Key Laboratory of Lithospheric Evolution, Institute of Geology and Geophysics, Chinese Academy of Science, China
- DETERMINATION OF IMPURITY CONTENT IN URANIUM MATRICES BY LASER ABLATION INDUCTIVELY COUPLED PLASMA MASS
14:20-14:40 B20 **Dr. Jing TAN** (Invited)
Beijing Research Institute of Uranium Geology, Beijing 100029, China
- DEVELOPMENT OF LASER ABLATION IONIZATION TIME-OF-FLIGHT MASS SPECTROMETER AND APPLICATIONS IN FAST PURITY DETERMINATION FOR SOLAR GRADE CRYSTALLINE SILICON
14:40-15:10 B21 **Prof. Jian HE** (Invited)
The Institute of Physics and Mechanical & Electrical Engineering, The laboratory of Analysis Instrument, Xiamen University, China
- 15:10-15:20 **Coffee Break**
- FULLY AUTOMATABLE MULTI-DIMENSIONAL LIQUID CHROMATOGRAPHY WITH ONLINE TANDEM MASS SPECTROMETRY FOR SHOTGUN PROTEOMICS: A REVERSED-PHASE/REVERSED-PHASE APPROACH
15:20-15:50 B22 **Prof. Ivan K. CHU** (Keynote)
Department of Chemistry, The University of Hong Kong, Hong Kong, China
- USE OF Q-TOF GC-MS TO QUANTIFY SPMD EXTRACTS FROM RIVER WATER AND MARINE SEDIMENT
15:50-16:10 B23 **Dr. Gregory WELLS** (Invited)
Agilent Technologies, USA
- DETERMINATION OF SIX MYCOTOXINS IN FERMENTED ALCOHOLIC DRINKS BY IAC-HPLC AND UHPLC-QQQ MASS SPECTROMETRY
16:10-16:30 B24 **Dr. Jinhua WANG** (Invited)
Beijing Entry-exit Inspection and Quarantine Bureau, Beijing, China

16:30-16:50 B25 DIRECT ANALYSIS IN REAL TIME MASS SPECTROMETRY (DART-MS) COMBINED WITH SINGLE DROP BASED LIQUID-LIQUID-LIQUID MICROEXTRACTION (SD-LLLME) FOR THE RAPID ANALYSIS OF MULTIPLE PHYTOHORMONES IN FRUIT JUICES

Prof. Huwei LIU (Invited)

Institute of Analytical Chemistry, College of Chemistry and Molecular Engineering, Peking University, China

16:50-17:20 B26 APPLICATIONS AND MECHANISMS OF EXTRACTIVE ELECTROSPRAY IONIZATION

Prof. Huanwen CHEN (Invited)

Jiangxi Key Laboratory for Mass Spectrometry and Instrumentation, East China Institute of Technology, Nanchang, China

Time: Oct. 16, 2011 AM (Sunday)

Location: Room 203, Central Garden Function Hall, Central Garden Hotel

Chairman: Prof. Dongyan HOU and Prof. Hao CHEN

8:30-9:00 B27 ELECTROLYTIC REDUCTION OF DISULFIDE BONDS OF PROTEINS/PEPTIDES WITH ONLINE MASS SPECTROMETRIC DETECTION

Prof. Hao CHEN (Keynote)

Ohio University, USA

9:00-9:20 B28 REVEALING THE MIRACLE OF LIPIDS AND PROTEINS BY MASS SPECTROMETRY

Dr. Hongying ZHONG (Invited)

Key Laboratory of Pesticides and Chemical Biology, Ministry of Education, College of Chemistry, Central China Normal University, Wuhan, China

9:20-9:40 B29 SCREENING FOR PPB-LEVEL 328 PESTICIDES IN ONE SHOT USING TRIPLE QUADRUPOLE

Dr. Shubing CHEN (Invited)

Ningbo Entry-exit Inspection and Quarantine Bureau, Ningbo, China

9:40-10:10 B30 ANALYSIS OF ESSENTIAL OILS FROM LEAVES STEMS AND ROOTS OF GINGER

Prof. Dongyan HOU (Invited)

Department of Chemistry, Anshan Normal University, China

10:10-10:20

Coffee Break



10:20-10:40 B31 FRAGMENTATION PATHWAYS OF ASPARTIC AMINO ACID OR THE N-TERMINAL DEUTEROHAEMIN CONTAINED PEPTIDES USING ION TRAP TANDEM MASS SPECTROMETRY

Prof. Xinhua GUO (Invited)

College of Chemistry, Jilin University, Changchun, China

10:40-11:00 B32 EFFECT OF DIGITAL DRIVING ON TANDEM MASS SPECTROMETRY USING CERAMIC PRINTED CIRCUIT BOARD LINEAR ION TRAP

Dr. Gongyu JIANG (Invited)

Shimadzu Research Laboratory (Shanghai) Co. Ltd., China

11:00-11:30 B33 DETERMINATION OF OXIDATIVE DECONTAMINATION PRODUCTS OF HD BY GC-MS

Dr. Yuan LING (Invited)

Research Institute of Chemical Defence, Beijing, China

POSTER SESSION

Time: Oct. 16, 2011 AM (Saturday)

Location: 2nd Floor of the Central Garden Hotel

BENEFITS OF UHPLC-ICP/MS COUPLING FOR MERCURY SPECIATION IN FOOD

B34 Sébastien SANNAC, Yu-Hong CHEN, Raimund WAHLEN, Ed MCCURDY
Agilent Technologies, Beijing, 100102, China

A METHOD FOR SIMULTANEOUS ANALYSIS OF 170 PESTICIDE RESIDUES IN SCALLION USING AGILENT 7000 TRIPLE QUADRUPOLE GC/MS/MS WITH ONE INJECTION

B35 Wenwen WANG, Chang LIU
Agilent Technologies Co. Ltd, No. 3 WangJingBei Road, Chao Yang District, Beijing, 100102, China

DETERMINATION OF NINE ARSENIC SPECIES USING CE-ICP-MS
Jianqiu MI, Yuhong CHEN, Luzheng XU, Derren LEE, Zhixu ZHANG

B36 Agilent Technologies (China), Co. Ltd. No.3, WangJing Bei Road, Chao Yang District, Beijing, 100102, China

DEVELOPMENT OF A HIGH PERFORMANCE SUITCASE TIME-OF-FLIGHT MASS SPECTROMETER

Jian HE, Rujun HUANG
B37 The Institute of Physics and Mechanical & Electrical Engineering, The laboratory of Analytical Instrument, Xiamen University, Xiamen 361005, China

THE DETERMINATION OF 16 PHTHALATE ESTERS IN OIL BY SOLID PHASE EXTRACTION AND GC/MS

B38 Suzi QIN, Wan WANG*
Tianjin Bonna-Agela Technology Co., Ltd., Tianjin 300462, China

COULOMB-INTERACTION-INDUCED EFFECTS ON FT-ICR MASS SPECTRA FOR Xe ISOTOPIC IONS: A MANY-PARTICLE SIMULATION USING GRAPE

B39 Makoto FUJIWARA, Naohisa HAPPO and Koichi TANAKA
Department Of Frontier Sciences, Graduate School Of Information Sciences, Hiroshima City University. Asaminami-Ku, Hiroshima 731-3194, Japan



- LEAD-ENHANCED GAS-PHASE STABILITY OF MULTIPLY CHARGED EDTA ANIONS
B40 Yongzhong OUYANG, Bin JIA, Feng HONG and Huanwen CHEN
Jiangxi Key Laboratory for Mass Spectrometry and Instrumentation, East China Institute of Technology, Nanchang, 330013, P. R. China
- LEAF ELECTROSPRAY IONIZATION MASS SPECTROMETRY FOR DIRECT ANALYSIS OF PODOCARPUS MACROPHYLLUS
B41 Hua ZHANG, Bin JIA, Nannan WANG, Longzhu HUANG and Huanwen CHEN
Jiangxi Key Laboratory for Mass Spectrometry and Instrumentation, East China Institute of Technology, Nanchang, 330013, P. R. China
- DETERMINATION OF AMPHOTERICIN B BY MALDI-TOF-MS
B42 Ruihua LIU and Lin LI
College of Pharmacy and Tianjin Key Laboratory of Molecular Drug Research, Nankai University, Tianjin 300071, China
- ISOTOPIC RATIO OF $^{99}\text{Tc}/^{98}\text{Tc}$ MEASUREMENTS BY ICP-MS
B43 Guoqing ZHOU, Fengrong ZHU, Demin LIU, Hongbo DONG, Mei LI and Lihua ZHAI
Northwest Institute of Nuclear Technology, Xi'an, China
- AN ABUNDANCE OF WATER RADICAL CATIONS PRODUCTION BY DESORPTION ATMOSPHERIC PRESSURE CHEMICAL IONIZATION MASS SPECTROMETRY
B44 Bin JIA, Yongzhong OUYANG, AND Huanwen CHEN*
Jiangxi Key Laboratory for Mass Spectrometry and Instrumentation, East China Institute of Technology, Nanchang 330013, P. R. China
- EXPERIMENTAL STUDY ON THE IONIZATION AND DESORPTION REGION OF DESORPTION ATMOSPHERIC PRESSURE CHEMISTRY IONIZATION
B45 Feng HONG, Bin JIA, Yongzhong OUYANG, Nannan WANG, Huanwen CHEN*
Jiangxi Key Laboratory for Mass Spectrometry and Instrumentation, East China Institute of Technology, Nanchang 330013, P. R. China
- RAPID IN SITU DETECTION OF ADULTERATED MILKS USING EXTINCTION SPECTROMETRY WITH A PORTABLE PHOTOMETER
B46 Saijin XIAO, Xinglei ZHANG, Rong HUA, Haiwei GU, Huanwen CHEN*
Jiangxi Key Laboratory for Mass Spectrometry and Instrumentation, East China Institute of Technology, Nanchang 330013, P. R. China

- DISCOVERY AND VALIDATION OF CANCER SPECIFIC BIOMARKERS FOR KIDNEY CANCER AND BLADDER CANCER USING SERUM METABONOMIC ANALYSIS
B47 Lin LIN, Zhenzhen HUANG, Yao GAO, Yongjing CHEN, Wei HANG*
Department of Chemistry, Key Laboratory of Analytical Sciences, College of Chemistry and Chemical Engineering, Xiamen University, Xiamen 361005, China
- THIN LAYER CHROMATROGRAPHY COUPLED WITH A NEW AMBIENT ION SOURCE FOR THE DETECTION OF DYES
B48 Jialing ZHANG, Zhigui ZHOU, Jianwang YANG, Wei ZHANG, Yu BAI, Huwei LIU*
Institute of Analytical Chemistry, College of Chemistry and Molecular Engineering, Peking University, Beijing, 100871, P. R. China
- SEPARATION AND ANALYSIS OF NEODYMIUM IN SIMULATE SPENT NUCLEAR FUELS BY DOUBLE COLUMN EXTRACTION CHROMATOGRAPHY WITH ISOTOPE DILUTION MULTI-COLLECTOR INDUCTIVELY COUPLED PLASMA MASS SPECTROMETRY
B49 Guoping XIAO, Jinying LI, Lifei ZHAO, Jilong ZHANG, Liuchao ZHU, Lei SHI
China Institute of Atomic Energy, P.O.Box 275-88, Beijing 102413, China
- DETERMINATION OF THE URANIUM AND THORIUM IN RAW MINERALS OF CHINA BY HR-ICP-MS
B50 Qing TIAN, Xianzhang SHAO, Baoming SHEN, Liangliang YIN, Yanqin JI*
National Institute for Radiological Protection, Chinese Center for Disease Control and Prevention, Beijing 100088, China
- A METABONOMIC STUDY ON BLADDER CANCER BY USING RPLC AND HILIC COUPLED WITH MASS SPECTROMETRY
B51 Zhenzhen HUANG¹, Lin LIN¹, Yao GAO¹, Yongjing CHEN¹, Xiaomei YAN¹, Jinchun XING², Wei HANG^{1*}
¹ Department of Chemistry, Key Laboratory of Analytical Sciences, College of Chemistry and Chemical Engineering, Xiamen University, China
² Department of Urology, Xiamen First Hospital, China
- LC-MS BASED METABONOMICS PROFILING OF BLADDER CANCER
B52 Yongjing CHEN, Lin LIN, Zhenzhen HUANG, Yao GAO, Wei HANG*
Department of Chemistry, Key Laboratory of Analytical Sciences, College of Chemistry and Chemical Engineering, Xiamen University, China



- A NOVEL DESI-MS METHOD USING SPECIAL SPRAY SOLUTIONS
Zhiqiang ZHU¹, Jing HAN^{1,2}, Huanwen CHEN^{1*}
¹Jiangxi Key Laboratory for Mass Spectrometry and Instrumentation, East
B53 China Institute of Technology, Nanchang, 330013, P. R. China
²Department of Chemistry, University of Xiamen, Xiamen, 361005, P.R.
China
- DETERMINATION OF SULFUR, PHOSPHOR AND OTHER 22
ELEMENTS IN RICE BY HIGH RESOLUTION INDUCTIVELY
COUPLED PLASMA MASS SPECTROMETRY
B54 Shengkai XIE, Jing TAN, Dongfa GUO
Beijing Research Institute of Uranium Geology, Beijing 100029, China
- FAST AND SELECTIVE EXTRACTION OF TRIAZINES FROM
VEGETABLES BASED ON MAGNETIC MOLECULARLY IMPRINTED
POLYMER FOLLOWED BY LIQUID CHROMATOGRAPHY-TANDEM
MASS SPECTROMETRY
B55 Yang XU, Qi ZHAO, Haiyan CHEN, Juan HOU, Lan DING*
College of Chemistry, Jilin University, 2699 Qianjin Street, Changchun
130012, China
- ANALYSIS OF VOLATILE COMPOUNDS EMITTED FROM FRESH
FLOWERS OF CYCLAMEN PERSICUM BY HEADSPACE SOLID-
PHASE MICROEXTRACTION-GAS CHROMATOGRAPHY- MASS
SPECTROMETRY
B56 Dan WANG, Fengtao DENG, Zuguang LI, Lili JIA
College of Chemical Engineering and Materials Science, Zhejiang University
of Technology, Hangzhou 310014, China
- RAPID RESOLUTION LIQUID CHROMATOGRAPHY-MASS
SPECTROMETRY-BASED METABOLOMIC DELINEATE THE
STABILITY OF PLASMA
B57 Wei YANG, Yanhua CHEN, Ruiping ZHANG, Jiuming HE, Cong XI,
Tiegang LI, Zeper ABLIZ*
Institute of Materia Medica, Chinese Academy of Medical Sciences & Peking
Union Medical College, Beijing 100050, China
- EXPLORATION OF ACCURATE MEASUREMENT BY USING GDMS
B58 Tao ZHOU, Changkun XU, Yichuan TANG
National Institute of Metrology, China, Beijing 100013

AMBIENT IONIZATION OF NON-POLAR CHEMICALS FOR MASS SPECTROMETRIC ANALYSIS

B59

Xinglei ZHANG, Yongzhong OUYANG, Bin HU, Huanwen CHEN*

Jiangxi Key Laboratory for Mass Spectrometry and Instrumentation, East China Institute of Technology, Nanchang, 330013, P. R. China



SCHEDULE OF SESSIONS

C. OPTICAL SPECTROSCOPY

CHAIRMAN: Prof. Xinrong ZHANG and Prof. Jinming LIN

ORAL LECTURES

Time: Oct. 14, 2011 PM (Friday)

Location: Room 201, Central Garden Function Hall, Central Garden Hotel

Chairman: Prof. Yunbao JIANG and Prof. Aijun TONG

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| 14:00-14:20 | C2 | <p>ANALYTICAL APPLICATIONS OF ABASIC-SITE
BINDING LIGANDS
Norio TERAMAE
Department of Chemistry, Graduate School of Science, Tohoku
University, Aoba-ku, Sendai 980-8578, Japan</p> |
| 14:20-14:40 | C3 | <p>POINT-OF-CARE DIAGNOSIS AND DETECTION
AVAILABLE TO THE PUBLIC BY USING
COMMERCIALLY AVAILABLE GLUCOSE METERS TO
QUANTIFY A VARIETY OF NON-GLUCOSE TARGETS
Yu XIANG
Department of Chemistry, University of Illinois at Urbana-
Champaign, Urbana, Illinois 61801, USA</p> |
| 14:40-15:00 | C4 | <p>CHALLENGE THE LIMIT OF APPLYING LIGHT
SCATTERING FOR SINGLE NANOPARTICLE
DETECTION
Xiaomei YAN
The Key Laboratory of Analytical Science, The Key
Laboratory for Chemical Biology of Fujian Province,
Department of Chemical Biology, College of Chemistry and
Chemical Engineering, Xiamen University, Xiamen, Fujian
361005, China</p> |
| 15:00-15:20 | C5 | <p>IMAGING OF SINGLE GOLD NANOPARTICLES IN
LIVING CELLS
Yan HE
State Key Laboratory of Chemo/Biosensing and Chemometrics,
College of Chemistry and Chemical Engineering, College of
Biology, Hunan University, Changsha, 410082, P. R. China</p> |

15:20-15:40	C6	May COPSEY Royal Society of Chemistry, Thomas Graham House, Science Park, Milton Road, Cambridge, CB4 0WF UK
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Coffee Break

BORONIC ACID BASED FLUORESCENT CHEMOSENSORS FOR SACCHARIDES

16:00-16:20 C7 Department of Chemistry, College of Chemistry and Chemical Engineering, and the MOE Key Laboratory of Analytical Sciences, Xiamen University, Xiamen 361005, China

FLUORESCENT CHEMOSENSORS FOR
PYROPHOSPHATE AND THIOLS BASED ON
AGGREGATION INDUCED EMISSION ENHANCEMENT

Department of Chemistry, Tsinghua University, Beijing
100084, China

RAMAN SPECTROSCOPY: A POTENTIAL ANALYTICAL METHOD ASSISTING IN CLINICAL DISEASE DIAGNOSIS

16:40-17:00	C9	Key Laboratory of Analytical Chemistry for Biology and Medicine (Ministry of Education), College of Chemistry and Molecular Sciences, Wuhan University, Wuhan, 430072, China.
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NANOPARTICLE-BASED SPECTROSCOPIC PROBES
FOR BIOIMAGING

17:00-17:20	C10	State Key Laboratory of Electroanalytical Chemistry Changchun, Institute of Applied Chemistry, Chinese Academy of Sciences, 5625 Renmin Street, Changchun 130022, P.R. China
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GRAPHENE: A NEW PLATFORM FOR OPTICAL BIOSENSOR

Huanghao YANG

17:20-17:40 C11 The Key Lab of Analysis and Detection Technology for Food Safety of the MOE, College of Chemistry and Chemical Engineering, Fuzhou University, Fuzhou 350002, P.R. China

OLIGONUCLEOTIDE FLUORESCENT PROBES FOR REAL-TIME MONITORING OF THE 3'-5' EXONUCLEASE ACTIVITY OF ENZYMES FROM ARABIDOPSIS THALIANA CELLS

17:40-18:00 C12 **Meiping ZHAO**

Beijing National Laboratory for Molecular Sciences, College of Chemistry and Molecular Engineering, Peking University, Beijing, 100871, China

Trevorrow PAUL

18:00-18:10 Editor of Luminescence

Steffen PAULY

18:10-18:20 Managing Editor Analytical and Bioanalytical Chemistry, Springer

Time: Oct. 15, 2011 AM (Saturday)

Location: Room 201, Central Garden Function Hall, Central Garden Hotel

Chairman: Prof. Xinrong ZHANG and Prof. Jianhua WANG

BIOMASS/CELL MANIPULATION FOR INORGANIC ARSENIC REMOVAL AND ANALYSIS/SPECIATION

8:00-8:20 C13 **Jianhua WANG**

Research Center for Analytical Sciences, Northeastern University, Shenyang 110004, China

PHOTOCATALYTIC VAPOR GENERATION WITH NANO TiO₂- AND ZrO₂-BASED SEMICONDUCTOR FOR ELEMENTAL SPECIATION ANALYSIS USING HPLC-AFS

8:20-8:40 C14 **Qiuquan WANG**

Department of Chemistry & Key Laboratory of Analytical Sciences, College of Chemistry and Chemical Engineering, Xiamen University

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|-------------|-----|---|
| 8:40-9:00 | C15 | <p>APPLICATION OF TUNGSTEN COIL IN ANALYTICAL ATOMIC SPECTROMETRY</p> <p>Xiandeng HOU
 College of Chemistry, Sichuan University, Chengdu, Sichuan, 610064, P. R. China</p> |
| 9:00-9:20 | C16 | <p>MAGNETIC NANOPARTICLES BASED MICROFLUIDIC CHIP COMBINED WITH ELECTROTHERMAL VAPORIZATION - INDUCTIVELY COUPLED PLASMA MASS SPECTROMETRY FOR BIOANALYSIS</p> <p>Bin HU
 Department of Chemistry, Wuhan University, Wuhan 430072, China</p> |
| 9:20-9:40 | C17 | <p>A NEW ATMOSPHERIC PRESSURE PLATE DIELECTRIC BARRIER DISCHARGE PLASMA FOR STATIC DETERMINATION OF ELEMENTS IN SOLUTION WITH OPTICAL EMISSION SPECTROMETRY</p> <p>Shenghong HU
 Key Laboratory of Biogeology and Environmental Geology of Ministry of Education, China University of Geosciences, Wuhan 430074, China</p> |
| 10:00-10:20 | C18 | <p>MODULATION OF THE PLASMA IN MASS SPECTROMETRY</p> <p>Wei HANG
 Department of Chemistry, College of Chemistry and Chemical Engineering, Xiamen University, Xiamen, 3610056, China</p> |

10:20-10:40

Coffee Break & Poster Session

Chairman: Prof. Weijun JIN and Prof. Xiaomei YAN

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| 10:40-11:00 | C19 | <p>SPECTROSCOPIC PROBES AND LABELING ANALYSIS (2011)</p> <p>Huimin MA
 Beijing National Laboratory for Molecular Sciences, Key Laboratory of Analytical Chemistry for Living Biosystems, Institute of Chemistry, Chinese Academy of Sciences, Beijing 100190, China</p> |
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- TARGETED FLUORESCENT NANOPROBES FOR IMAGING, DIAGNOSIS AND THERAPY OF LIVING CANCER CELLS
Bo TANG
College of Chemistry, Chemical Engineering and Materials Science, Engineering Research Center of Pesticide and Medicine Intermediate Clean Production, Ministry of Education, Key Laboratory of Molecular and Nano Probes, Ministry of Education, Shandong Normal University, Jinan, Shandong, 250014, China
- 11:00-11:20 C20
- “TURN-ON” CHEMILUMINESCENCE FOR MIMIC SANDWICH ELISA DETECTION OF Hg^{2+} IONS
Jianzhong LU
School of Pharmacy, Fudan University, Shanghai, 201203
- 11:20-11:40 C21
- SPECIFIC DETECTION OF CYSTEINE AND HOMOCYSTEINE IN BIOLOGICAL FLUIDS USING FLUOROSURFACTANT-STABILIZED GOLD COLLOIDAL SOLUTION
Chao LU
State Key Laboratory of Chemical Resource Engineering, Beijing University of Chemical Technology, Beijing 100029, China
- 11:40-12:00 C22

Time: Oct. 15, 2011 PM (Sunday)

Location: Room 201, Central Garden Function Hall, Central Garden Hotel

Chairman: Prof. Ronghua YANG and Prof. Zhongping ZHANG

- HOMOGENEOUS AND SENSITIVE DETECTION OF MICRORNA WITH ISOTHERMAL AMPLIFICATION OF NUCLEIC ACIDS
Zhengping LI
Key Laboratory of Medicine Chemistry and Molecular Diagnosis, Ministry of Education; College of Chemistry and Environment Science, Hebei University, Baoding 071002, Hebei Province, P. R. China
- 13:30-13:50 C23

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| | | <p>AQUEOUS-PHASE SYNTHESIS OF HIGH-QUALITY QUANTUM DOTS AND THEIR APPLICATIONS IN DNA/ PROTEIN DETECTION AND CELL IMAGING</p> <p>Zhike HE</p> |
| 13:50-14:10 | C24 | <p>Key Laboratory of Analytical Chemistry for Biology and Medicine (Ministry of Education), College of Chemistry and Molecular Sciences, Wuhan University, Wuhan 430072, P. R. China</p> |
| | | <p>BIOSENSING BASED ON SURFACE PLASMON-COUPLED EMISSION</p> <p>Yaoqun LI</p> |
| 14:10-14:30 | C25 | <p>Department of Chemistry and Key Laboratory of Analytical Sciences, College of Chemistry and Chemical Engineering, Xiamen University, Xiamen, 361005, China</p> |
| | | <p>THREE-DIMENSIONAL POSITRON EMISSION TOMOGRAPHY/COMPUTED TOMOGRAPHY IMAGING NUTRIENT UPTAKE AND DISTRIBUTION IN GROWING PLANT</p> <p>Jiagen LV</p> |
| 14:30-14:50 | C26 | <p>Key Laboratory of Analytical Chemistry for Life Science of Shaanxi Province, Shaanxi Normal University, Xi'an, China, 710062</p> |
| | | <p>AQUEOUS SYNTHESIS OF Mn:ZnSe QDs AND ITS APPLICATION</p> <p>Xingguang SU</p> |
| 14:50-15:10 | C27 | <p>Department of Analytical Chemistry, College of Chemistry, Jilin University, Changchun, 130012, China</p> |
| | | <p>RESONANCE LIGHT SCATTERING CORRELATION SPECTROSCOPY: A NEW SINGLE NANOPARTICLE METHOD</p> <p>Jicun REN</p> |
| 15:10-15:30 | C28 | <p>College of Chemistry & Chemical Engineering, Shanghai Jiaotong University, 800 Dongchuan Road, Shanghai, 200240, P. R. China</p> |
| 15:30-16:00 | | <p>Coffee Break & Poster Session</p> |



Chairman: Prof. Zhike HE and Prof. Zhengping LI

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| | | CONJUGATIONS OF INORGANIC NANOMATERIALS WITH FUNCTIONAL NUCLEIC ACIDS: NEW APPROACHES FOR PROBING BIOMOLECULAR INTERACTIONS |
| 16:00-16:20 | C29 | Ronghua YANG
State Key Laboratory of Chemo/Biosensing and Chemometrics, College of Chemistry and Chemical Engineering, Hunan University, Changsha |
| | | TRINITROTOLUENE EXPLOSIVE IGNITE RAMAN SCATTERING OF NONRESONANT MOLECULES AT METAL NANOSTRUCTURES |
| 16:20-16:40 | C30 | Zhongping ZHANG
Institute of Intelligent Machines, Chinese Academy of Sciences, Hefei, Anhui 230031, China |
| | | LONG-WAVELENGTH FLUORESCENT PROBES FOR BIOLOGICAL SAMPLES |
| 16:40-17:00 | C31 | Hong WANG
Key Laboratory of Analytical Chemistry for Biology and Medicine (Ministry of Education), Department of Chemistry, Wuhan University, Wuhan, 430072, China |
| | | STUDY ON NANOMATERIALS - BASED CATALUMINESCENCE GAS SENSORS |
| 17:00-17:20 | C32 | Yi LV
Key Laboratory of Green Chemistry & Technology, Ministry of Education; College of Chemistry, Sichuan University, Chengdu, Sichuan 610064, China |
| | | THE HOMOGENEOUS FLUORESCENCE ANISOTROPIC SENSING OF SALIVARY LYSOZYME USING THE 6-CARBOXYFLUORESCEIN-LABELED DNA APTAMER |
| 17:20-17:40 | C33 | Na LI
Beijing National Laboratory for Molecular Sciences (BNLMS), Key Laboratory of Bioorganic Chemistry and Molecular Engineering of Ministry of Education, Institute of Analytical Chemistry, College of Chemistry and Molecular Engineering, Peking University, Beijing, 100871, China |

17:40-18:00	C34	iTEVA PRECISION ANALYSIS OF ICP-OES Xiaobo LI ThermoFisher Scientific
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POSTER SESSION

Time: Oct. 15, 2011 (Saturday)

Location: 2nd Floor of the Central Garden Hotel

CHEMILUMINESCENCE FROM DECOMPOSITION OF
PEROXYMONOCARBONATE AND ITS APPLICATION IN FLOW
INJECTION ANALYSIS

C35 Hui CHEN and Jin-Ming LIN*

Beijing Key Laboratory for Microanalysis and Instrumentation, Department
of Chemistry, Tsinghua University, Beijing 100084, China

FLOW-INJECTION ANALYSIS OF RIFAMPICIN IN
PHARMACEUTICALS BASED ON CDTE QUANTUM
DOTS ENHANCED BISULFITE-HYDROGEN PEROXIDE
CHEMILUMINESCENT REACTION

C36 Wei XUE^{1,2}, Zhen LIN², Hui CHEN², Chao LU¹ and Jin-Ming LIN^{2,*}

¹State Key Laboratory of Chemical Resource Engineering, Beijing University
of Chemical Technology, Beijing 100029, China

²Beijing Key Laboratory for Microanalysis and Instrumentation, Department
of Chemistry, Tsinghua University, Beijing 100084, China

PEROXYNITROUS ACID INDUCED CHEMILUMINESCENCE OF
CARBON PARTICLE FOR NITRITE SENSIN

C37 Zhen LIN, Wei XUE, Hui CHEN and Jin-Ming LIN*

Beijing Key Laboratory for Microanalysis and Instrumentation, Department
of Chemistry, Tsinghua University, Beijing 100084, China

RARE CELL CHEMILUMINESCENCE DETECTION BASED ON
APTAMER-SPECIFIC CAPTURE IN MICROFLUIDIC CHANNELS

C38 Wu LIU and Jin-Ming LIN*

Beijing Key Laboratory for Microanalysis and Instrumentation, Department
of Chemistry, Tsinghua University, Beijing 100084, China

HOMOGENEOUS DETECTION OF CONCAVALIN A USING
PYRENE-CONJUGATED MALTOSE ASSEMBLED GRAPHENE BASED
ON FLUORESCENCE RESONANCE ENERGY TRANSFER

C39 Qiushui CHEN and Jin-Ming LIN*

Beijing Key Laboratory for Microanalysis and Instrumentation, Department
of Chemistry, Tsinghua University, Beijing 100084, China

- C40 A NEW ANALYTICAL TOOL: DSC RAMAN
Peng YE, Kevin MENARD, Richard SPRAGG and Enrique LOZANO
PerkinElmer, Shelton, CT, 06484, USA
- C41 AN ALYSIS OF THE CONTENT OF FLAVONES AND ANTIOXIDANT CAPACITY IN CELERY
Ruihua HUI, Dongyan HOU, Tiechun LI and Quanping DIAO
Department of Chemistry, Anshan Normal University, Aashan, 114007, P. R. China
- C42 SURFACE PLASMON COUPLED EMISSION BASED MERCURY ION SENSOR USING QUANTUM DOTS
Xiaoqing LIU, Shuohui CAO, Weipeng CAI, Qian LIU, Yuhua WEN, Yaoqun LI*
Department of Chemistry & the Key Laboratory of Analytical Sciences, College of Chemistry and Chemical Engineering, Xiamen University, Xiamen 361005, China
- C43 THROMBIN DETECTION USING GOLD NANOPARTICLES AND FLUOROPHORE-LABELED APTAMER
Xiaofang WANG¹, Qiang ZHAO^{2*} and Shaomin SHUANG¹
¹College of Chemistry and Chemical Engineering, Shanxi University, Taiyuan 030006
²Research Center of Environmental Science and Engineering, Shanxi University, Taiyuan 030006
- C44 LINEAR REGRESSION EQUATION MODIFIED CALIBRATION CURVE
Xiaotong ZHANG, Junhu LIANG, Chuang REN, Xinchao SHAO, Lijuan SONG*
Liaoning Key Laboratory of Petrochemical Engineering, Liaoning Shihua University, Fushun Liaoning 113001, P. R. China
- C45 INFRARED SPECTROSCOPY IN THE STUDY OF NITROGEN TRIFLUORIDE PHOTOREDUCTION
Xingang LIU^{1,2}, Renxi ZHANG^{2*}, Huiqi HOU² and Xiaomin YAN^{1*}
¹Center of Analysis & Measurement, Fudan University, Shanghai 200433, P.R. China
²Institute of Environmental Science, Fudan University, Shanghai 200433, P. R. China



APPLICATION OF FLUORESCENT CARBON NANOPARTICLES FOR PROTEIN IMAGING

- C46 Tingting LIU, Na NA, Jin OUYANG
College of Chemistry, Beijing Normal University, Beijing 100875, China

DETERMINATION OF TOBRAMYCIN USING LOCALIZED SURFACE PLASMON RESONANCE ABSORPTION AND LIGHT-SCATTERING OF GOLD NANOPARTICLES

- Marcus CARTER¹, Xiao XU², Feng LIU², Na LI²
C47 ¹Frostburg State University, Frostburg, MD, The United States of America
²The Key Laboratory of Bioorganic Chemistry and Molecular Engineering, Ministry of Education, College of Chemistry and Molecular Engineering, Peking University, Beijing 100871, China

FLUORESCENCE MERCURY SENSING BY FORMATION OF Hg(II)-MEDIATED T-T BASE PAIRS IN A POLY-T DNA DUPLEX

- Xinyi WANG¹, Yuqian REN², Ke HU², Feng LIU², Xiaoda YANG¹, Na LI²
C48 ¹School of Pharmaceutical Sciences, Health Science Center of Peking University, Beijing, 100083, China
²Beijing National Laboratory for Molecular Sciences (BNLMS), The Key Laboratory of Bioorganic Chemistry and Molecular Engineering, Ministry of Education, College of Chemistry and Molecular Engineering, Peking University, Beijing 100871, China

ELEMENTAL ANALYSIS OF PORCELAIN SHARDS BY LASER IONIZATION TIME-OF-FLIGHT MASS SPECTROMETRY

- Dongxuan ZOU, Zhibin YIN, Bochao ZHANG and Wei HANG*
C49 Department of Chemistry, Key Laboratory of Analytical Science, College of Chemistry and Chemical Engineering, Xiamen University, Xiamen, 361005, China

CONSTRUCTION OF GLOW DISCHARGE QUADRUPOLE MASS SPECTROMETER FOR ANALYSIS OF SOLID SAMPLES

- Lingfeng LI¹, Xiaohua WANG¹ and Wei HANG^{1,2*}
C50 ¹Key Laboratory of Analytical Science, Department of Chemistry, College of Chemistry and Chemical Engineering, Xiamen University.
²State Key Laboratory of Marine Environmental Science, Xiamen University. Xiamen 361005, China

2D ELEMENTAL MAPPING OF POLY-METALLIC NODULES VIA HIGH IRRADIANCE LASER IONIZATION ORTHOGONAL TIME-OF-FLIGHT MASS SPECTROMETRY (LI-O-TOFMS)

Bochao ZHANG¹, Xiaoqian LI¹, Guangshan Liu², and Wei HANG^{1*}

C51 ¹Department of Chemistry, College of Chemistry and Chemical Engineering, Xiamen University, China

²College of Oceanography and Environmental Science, Xiamen University, China

DEVELOPMENT AND APPLICATION OF THE ATMOSPHERIC PRESSURE SOLUTION CATHODE GLOW DISCHARGE

Zheng WANG¹, Schwartz Andrew JAMES², Steve RAY², Gary HIEFTJE²

C52 ¹Shanghai Institute of Ceramics, Chinese Academy of Sciences, Shanghai 200050, China

²Department of Chemistry, Indiana University, 800 East Kirkwood Avenue, Bloomington, Indiana 47405

BIOSENSING BASED ON SURFACE PLASMON-COUPLED EMISSION

Yaoqun LI^{*}, Shuohui CAO, Weipeng CAI, Qian LIU, Yuhua WENG, Xiaoqin LIU

C53 Department of Chemistry and Key Laboratory of Analytical Sciences, College of Chemistry and Chemical Engineering, Xiamen University, Xiamen, 361005, China.

ELECTROGENERATED CHEMILUMINESCENCE BIOSENSOR FOR HIGHLY SENSITIVE DETERMINATION OF CANCER CELLS BASED ON CONCAVALIN A LABELED WITH RUTHENIUM COMPLEX

C54 Haiying YANG, Kaili YANG, Ke CHEN, Honglan QI, Chengxiao ZHANG^{*}
Key Laboratory of Analytical Chemistry for Life Science of Shaanxi Province, School of Chemistry and Materials Science, Shaanxi Normal University, Xi'an, 710062, P. R. China

ON LINE HIGH-EFFICIENT VAPOR GENERATION OF OSMIUM BASED ON SOLUTION CATHODE GLOW DISCHARGE FOR THE DETERMINATION BY ICP-OES

Chunying HUANG¹, Zhenli ZHU^{*2}

C55 ¹Faculty of Material Science & Chemistry Engineering, China University of Geosciences, Wuhan, 430074, China

²State Key Laboratory of Biogeology and Environmental Geology, China University of Geosciences, Wuhan, 430074, China

- SPECIATION ANALYSIS OF MERCURY BY THIN LAYER CHROMATOGRAPHY COUPLED TO ATOMIC FLUORESCENCE SPECTROMETRY WITH LOW TEMPERATURE PROBE AS INTERFACE
- C56 Zhifu LIU¹, Zhenli ZHU^{*1}, Shenghong HU¹
¹State Key Laboratory of Biogeology and Environmental Geology, Faculty of Earth Sciences, China University of Geosciences, Wuhan, 430074, China

- ELEMENTAL ANALYSIS OF SERUM SAMPLES FOR EARLY DIAGNOSIS OF URINARY LITHIASIS
- Yao GAO, Wei HANG^{*}
- C57 Department of Chemistry, Key Laboratory of Analytical Sciences, College of Chemistry and Chemical Engineering, Xiamen University, Xiamen 361005, China

- LONG WAVELENGTH BODIPY-BASED PROBE WITH LARGE STOKES SHIFTS FOR NITRIC OXIDE
- Jianbo CHEN, Huixian ZHANG, Xiaofeng GUO, Huashan ZHANG, Hong WANG^{*}
- C58 Key Laboratory of Analytical Chemistry for Biology and Medicine (Ministry of Education), Department of Chemistry, Wuhan University, Wuhan, 430072, China

- HIGHLY FLUORESCENT LONG WAVELENGTH BODIPY-BASED PROBES FOR NITRIC OXIDE IMAGING
- Hui-Xian ZHANG, Jian-Bo CHEN, Xiao-Feng GUO, Hua-Shan ZHANG, Hong WANG^{*}
- C59 Key Laboratory of Analytical Chemistry for Biology and Medicine (Ministry of Education), Department of Chemistry, Wuhan University, Wuhan, 430072, China

- HYPER SPECTRAL IMAGING BASED PLATFORMS FOR PARTICULATESOLIDS CHARACTERIZATION, INSPECTION AND QUALITY CONTROL: HARDWARE CONFIGURATIONS, LOGICS AND ALGORITHMS
- Giuseppe BONIFAZI¹, Silvia SERRANTI¹ and Alberto DALL'AVA²
- C60 ¹Dipartimento di Ingegneria Chimica Materiali Ambiente, Sapienza – Università di Roma. Rome 00184, Italy
²DV srl. Padova 35129, Italy

- DETERMINATION OF RARE EARTHS NEODYMIUM OXIDE BY HIGHT RESOLUTION INDUCTIVELY COUPLED PLASMA ATOMIC EMISSION SPECTROMETRY
- Xu FENG, Guixiang YANG
- C61 SHIMADZU (CHINA) CO.,LTD. Beijing, 100020

EXHALED BREATH DIAGNOSIS FOR BREAST CANCER WITH CATALUMINESCENCE SENSOR ARRAY

C62 Yayan WU^{1,2}, Sichun ZHANG¹, Fang WEN¹, Yonghui LIU¹, Kong HAO¹, Xinrong ZHANG^{1*}

¹Department of Chemistry, Tsinghua University, 100084, Beijing, P. R. China

²Key Laboratory of Biomedical Information Engineering of Ministry of Education, Xi'an Jiaotong University, 710049, Xi'an, P. R. China

PEROXIDASE-LIKE Fe₃O₄-REDUCED GRAPHENE OXIDE FOR BIOSENSING

C63 Yuexiang LU, Huaqiang CAO, Weng-chon ChEONG*, Baojun LI, Sichun ZHANG and Xinrong ZHANG*

Department of Chemistry, Tsinghua University, Beijing, P.R. China, 100084

DESIGN, SYNTHESIS AND BIOLOGICAL APPLICATION OF A DUAL-FUNCTION PROBE FOR FLUORESCENCE IMAGING AND ICPMS ABSOLUTE QUANTIFICATION OF CANCER CELLS AND PROTEINS

C64 Zhubao ZHANG¹, Xiaowen YAN¹, Limin YANG¹ and Qiuquan WANG^{*1,2}

¹ Department of Chemistry & the Key Laboratory of Analytical Sciences, College of Chemistry and Chemical Engineering, Xiamen University, Xiamen 361005, China; ² State Key Laboratory of Marine Environmental Science, Xiamen University, Xiamen 361005, China

ELEMENT IMAGING WITH A LOW-TEMPERATURE PLASMA PROBE COUPLED WITH ICP-MS

C65 Zhi XING, Meng YANG, Sichun ZHANG, Xinrong ZHANG*

Department of Chemistry, Tsinghua University, 100084, Beijing, P. R. China

DETERMINATION THE CONTENT OF PALLADIUM IN THE PALLADIUM-CARBON CATALYST BY ICP-AES WITH MICROWAVE DIGESTION ONLY USING HCL AND HNO₃

C66 Youbao SUN¹, Xiaoling MA¹, Taohong HUNG¹

¹Shimadzu Global COE for Application & Technical Development, No 570 West Huaihai Road, Shang hai, 200052, China

DETERMINATION OF THE TRANS-FATTY ACIDS IN OILS BY FTIR

C67 Juanjuan WANG*, Taohong HUANG
Shimadzu Global COE for Application & Technical Development, No 570 West Huaihai Road, Shanghai, 200052, China



MEASURE THE OBJECT COLOR WITH SHIMADZU UV-VIS SPECTROMETER

- C68 Zhou LIU, Song ZHAN
1Shimadzu international trading(ShangHai)Co,Limited Guangzhou Branch
Room 703-706, T. P. Plaza, 9/109, Liu Hua Road, Guangzhou, P. R. China

DEVELOPMENT OF AN ACCURATE METHOD FOR THE IMPROVED DETERMINATION OF TRACE LEAD IN DIFFERENT DAIRY PRODUCTS

- C69 Jianmin CHEN*, Jijun YAO, Renkang YANG
Global Application Laboratory, PerkinElmer Analytical Sciences, Shelton, CT
06484, USA

SCHEDULE OF SESSIONS

D. CHROMATOGRAPHY

CHAIRMAN: Prof. Guowang XU

ORAL LECTURES

Time: Oct. 14, 2011 PM (Friday)

Location: Harmonious Garden Hall, 2nd Floor of the Central Garden Hotel

Chairman: Prof. Gerard ROZING and Prof. Paola DUGO

13:30-13:55	D2	VOLUME CONTROLLED HPLC – A ROBUST AND RELIABLE MODE OF OPERATION Gerard ROZING (Keynote) Gert Desmet, Matthias Verstraeten, Ken Broeckhoven, Free University of Brussels, Belgium
13:55-14:20	D3	EMPLOYMENT OF COMPREHENSIVE TWO-DIMENSIONAL LIQUID CHROMATOGRAPHY IN COMBINATION WITH MASS SPECTROMETRY FOR THE ANALYSIS OF COMPLEX SAMPLES Paola DUGO (Keynote) Dipartimento Farmaco-chimico, University of Messina, Italy
14:20-14:45	D4	THE POWER OF SELECTIVITY IN LIQUID CHROMATOGRAPHY Wolfgang LINDNER (Keynote) University of Vienna, Institute of Analytical Chemistry, Austria
14:45-15:00	D5	RECENT DEVELOPMENT OF SUPERFICIALLY POROUS PARTICLES AND THEIR APPLICATION FOR BETTER AND FASTER SEPARATION IN UHPLC Wu CHEN Agilent Technologies, Inc. 2850 Centerville Road, Wilmington, DE 19808, USA
15:00-15:20		Coffee Break



Chairman: Prof. Philip J. MARRIOTT and Prof. Robert PLUMB

		INNOVATIVE PRACTICAL TECHNIQUES FOR HAND-PORTABLE GC-MS
15:20-15:45	D6	Milton L. LEE (Keynote) Department of Chemistry and Biochemistry, Brigham Young University, USA
		TRICKS & TECHNIQUES IN SOLID-PHASE MICRO-EXTRACTION WITH GAS CHROMATOGRAPHY
15:45-16:10	D7	Philip J. MARRIOTT (Keynote) Centre for Green Chemistry, School of Chemistry, Monash University, Australia
		SUB 2UM LC/MS FOR THE DETECTION CHARACTERIZATION OF ENDOGENOUS AND EXOGENOUS MOLECULES IN SYSTEMS BIOLOGY
16:10-16:35	D8	Robert PLUMB (Keynote) Division of Surgery & Cancer, Imperial College, UK
		PHOTO IONISATION MASS SPECTROMETRY FOR ON-LINE CHARACTERISATION OF INDUSTRIAL AND TECHNICAL COMBUSTION AND PYROLYSIS PROCESSES
16:35-17:00	D9	Ralf ZIMMERMANN (Keynote) Joint Mass Spectrometry Centre of Helmholtz Zentrum München, Germany, and University of Rostock, Chair of Analytical Chemistry, Germany
		DIFFERENTIATION OF CLOSELY RELATED VIRULENT BACTERIA BY THERMOCHEMOLYSIS/METHYLATION AND GC-MS
17:00-17:15	D10	Dan LI Department of Chemistry and Biochemistry, Brigham Young University, USA
17:15-18:00		Posters

The 14th Beijing Conference and Exhibition on Instrumental Analysis

Time: Oct. 15, 2011 AM (Saturday)

Location: Harmonious Garden Hall, 2nd Floor of the Central Garden Hotel

Topic: Proteomics, Metabolomics, Lipidomics (co-hosted by Session D&G)

Chairman: Prof. Xiaohong QIAN and Prof. Guowang XU

08:30-08:55	G13	IS CURRENT TECHNOLOGY READY FOR COMPLETE PROTEOMICS STUDY? Ping XU (Keynote) State Key Laboratory of Proteomics, Beijing Proteome Research Center, Beijing Institute of Radiation Medicine, National Engineering Research Center for Protein Drugs, China
08:55-09:20	D22	HYPHENATED LIQUID PHASE-MASS SPECTROMETRIC TECHNIQUES FOR METABOLOMIC STUDIES OF ANTICANCER ACTIVITY OF DIETARY POLYPHENOLS. THE LONG WAY TO A GLOBAL FOODOMICS APPROACH Alejandro CIFUENTES (Keynote) Laboratory of Foodomics, CIAL (CSIC), Nicolas Cabrera 9, 28049 Madrid, Spain
09:20-09:45	G14	HIGH PERFORMANCE ISOTOPE LABELING LC-MS FOR QUANTITATIVE AND COMPREHENSIVE METABOLOME PROFILING Liang LI (Keynote) Department of Chemistry, University of Alberta, Canada
09:45-10:10	D23	DISEASE BIOMARKER DISCOVERY AND IDENTIFICATION BY USING MASS SPECTROMETRY BASED METABOLOMICS Guowang XU CAS Key Laboratory of Separation Science for Analytical Chemistry, National Chromatographic R &A Center, Dalian Institute of Chemical Physics, Chinese Academy of Sciences, China
10:10-10:30		Coffee Break



第十四届北京分析测试学术报告会及展览会

10:30-10:55 G15 **ALCOHOL DRINKING AND LIVER FUNCTION - A QUANTITATIVE PROTEOMIC STUDY OF CYP2E1 FUNCTION IN ALCOHOL METABOLISM**
Rong WANG
Department of Genetics and Genomic Sciences, Mount Sinai School of Medicine, USA

10:55-11:20 D24 **HOW THOUSANDS OF LIPID SPECIES ARE IDENTIFIED AND QUANTIFIED FROM A MINIMAL AMOUNT OF SOURCE MATERIAL BY AN ELECTROSPRAY IONIZATION MASS SPECTROMETER: INTRODUCTION TO MULTI- DIMENSIONAL MASS SPECTROMETRY-BASED SHOTGUN LIPIDOMICS**
Xianlin HAN (Keynote)
Diabetes and Obesity Research Center, Sanford-Burnham Medical Research Institute, USA

11:20-11:45 G16 **ORGANELLE MEMBRANE PROTEOMICS REVEALS DIFFERENTIAL INFLUENCE OF MYCOBACTERIAL LIPOGLYCANS ON MACROPHAGE PHAGOSOME MATURATION AND AUTOPHAGOSOME ACCUMULATION**
Wenqing SHUI (Keynote)
College of Life Sciences and Tianjin State Laboratory of Protein Science, Nankai University, China

11:45-12:10 D25 **ONLINE NP/RP 2D LC-QTOF-MS FOR LIPIDOMICS ANALYSIS**
Huwei LIU
Institute of Analytical Chemistry, College of Chemistry and Molecular Engineering, Peking University, China

Time: Oct. 15, 2011 PM (Saturday)

Location: Harmonious Garden Hall, 2nd Floor of the Central Garden Hotel

Chairman: Prof. Hans-Gerd JANSSEN and Prof Bezhan CHANKVETADZE

13:30-13:55 D11 **ADVANCES IN OPTICAL IMAGING OF CHEMICAL AND BIOLOGICAL SYSTEMS**
Edward S. YEUNG (Keynote)
State Key Laboratory of Chemo/Biosensing and Chemometrics, Hunan University, PRC, and Ames Laboratory, Iowa State University, USA

13:55-14:20 D12 **HYPHENATED GC AND LC TECHNOLOGIES FOR THE ANALYSIS OF LARGE AND POLAR (BIO-) MOLECULES**
Hans-Gerd JANSSEN (Keynote)
 University of Amsterdam, van't Hoff Institute for Molecular Sciences, Netherlands

14:20-14:45 D13 **NEW EFFECTS WITH NEW CHIRAL STATIONARY PHASES FOR LIQUID-PHASE ENANTIOSEPARATION TECHNIQUES**
Bezhan CHANKVETADZE (Keynote)
 Department of Physical and Analytical Chemistry, School of Exact and Natural Sciences, Tbilisi State University, Georgia

14:45-15:00 D14 **SCREENING AND STRUCTURAL IDENTIFICATION OF NATURAL ANTIOXIDANTS FROM FLOES CHRYSANTHEMI USING LCMS-IT-TOF AND POST-COLUMN DERIVATIZATION**
Jing DONG
 Shimadzu International Trading (Shanghai) Co., Limited, Beijing Office, Beijing 100020, China

15:00-15:20 **Coffee Break**

Chairman: Prof. Gerhard K. E. SCRIBA and Prof. Myeong Hee MOON

15:20-15:45 D15 **QUANTITATIVE MALDI-(TOF)MS ANALYSIS OF SYNTHETIC POLYMERS AND PEPTIDES**
Oliver J. SCHMITZ (Keynote)
 Institute for Pure and Applied Mass Spectrometry, FB C/ Analytical Chemistry, University of Wuppertal, Germany

15:45-16:10 D16 **SHOGUN LIPIDOMICS BY NANOFLOW LC-ESI-MS-MS: QUALITATIVE & QUANTITATIVE ANALYSIS OF PHOSPHOLIPIDS**
Myeong Hee MOON (Keynote)
 Department of Chemistry, Yonsei University, Korea

16:10-16:35 D17 **SIRTUIN ENZYME ASSAYS BY CAPILLARY ELECTROPHORESIS**
Gerhard K. E. SCRIBA (Keynote)
 Friedrich Schiller University Jena, Department of Pharmaceutical and Medicinal Chemistry, Germany



16:35-17:00 D18 APTAMERS SIEVING AND INTERACTION
EVALUTATION FOR BIOLOGICAL PARTICLES AND
PROTEINS TARGET BASED ON CAPILLARY
ELECTROPHORESIS
Feng QU
School of Life Science, Beijing Institute of Technology,
China

17:00-17:15 D19 SELECTIVE ENRICHMENT OF GLYCOPEPTIDES
BY USING HYDROPHILIC INTERACTION
CHROMATOGRAPHY
Long YU
Key Lab of Separation Science for Analytical Chemistry,
Dalian Institute of Chemical Physics, Chinese Academy of
Sciences, China

17:15-18:00 **Posters**

Time: Oct. 16, 2011 AM (Sunday)

Location: Harmonious Garden Hall, 2nd Floor of the Central Garden Hotel

Chairman: Prof. Emily F. HILDER and Prof. Li QI

08:30-08:55 D20 NEW SAMPLE PREPARATION METHODS FOR
PROTEOMIC STUDY
Yukui ZHANG (Keynote)
Key Laboratory of Separation Science for Analytical
Chemistry, National Chromatographic Research and Analysis
Center, Dalian Institute of Chemical Physics, Chinese
Academy of Sciences, China

08:55-09:20 D21 MACROPOROUS MONOLITHIC POLYMERS
CONTAINING EMBEDDED NANOPARTICLES FOR
HIGH PERFORMANCE CHROMATOGRAPHY
Emily F. HILDER (Keynote)
Australian Centre for Research on Separation Science
(ACROSS), School of Chemistry, University of Tasmania,
Australia

- 09:20-09:45 D26 **STUDY ON CHIRAL LIGAND EXCHANGE AND DAAO ACTIVITY IN THE RAT AFTER RENAL ISCHEMIA**
Li QI
 Key Laboratory of Analytical Chemistry for Living Biosystems, Institute of Chemistry, Chinese Academy of Sciences, China
- 09:45-10:00 D27 **ANALYSIS OF NATURAL OILS AND EXTRACTS USING THE LOW THERMAL MASS LTM SERIES II SYSTEM**
Roger L. FIROR
 Agilent Technologies, Inc. 2850 Centerville Rd, Wilmington, USA

10:00-10:20

Coffee Break

Chairman: Prof. Gengliang YANG and Prof. Oliver KOHLBACHER

- 10:20-10:45 D28 **CYCLING - COLUMN - SWITCHING ION CHROMATOGRAPHY AND IT'S APPLICATION**
Yan ZHU (Keynote)
 Department of Chemistry, Xixi Campus, Zhejiang University, China
- 10:45-11:10 D29 **OPEN-SOURCE SOFTWARE FOR THE AUTOMATED ANALYSIS OF HPLC-MS DATA IN PROTEOMICS AND METABOLOMICS**
Oliver KOHLBACHER (Keynote)
 Applied Bioinformatics, Center for Bioinformatics, University of Tuebingen, Germany
- 11:10-11:35 D30 **INVESTIGATION OF MONOLITHS BASED ON SEVERAL NOVEL POROUS FUNCTIONAL POLYMERS**
Gengliang YANG
 Key Laboratory of Pharmaceutical Quality Control of Hebei Province; College of Pharmaceutical Sciences, Hebei University, China
- 11:45-12:10 D31 **INTELLIGENT SYSTEM EMULATION: ACHIEVING METHOD COMPATIBILITY BETWEEN HPLC AND UHPLC**
Monika M. DITTMANN
 Agilent Technologies GmbH, Waldbronn, Germany



第十四届北京分析测试学术报告会及展览会

Time: Oct. 16, 2011 PM (Sunday)

Location: Harmonious Garden Hall, 2nd Floor of the Central Garden Hotel

Chairman: Prof. Xinmiao LIANG and Prof. Jinting YAO

- | | | |
|-------------|-----|---|
| 13:30-13:55 | D32 | <p>CHROMATOGRAPHIC METHODOLOGY AND TECHNOLOGY FOR DEVELOPING TCM</p> <p>Xinmiao LIANG (Keynote)</p> <p>Dalian Institute of Chemical Physics, Chinese Academy of Sciences, China</p> |
| 13:55-14:10 | D33 | <p>IMITATION OF DRUG METABOLISM IN HUMAN LIVER AND CYTOTOXICITY ASSAY USING A MICROFLUIDIC DEVICE COUPLED TO MASS SPECTROMETRIC DETECTION</p> <p>Sifeng MAO</p> <p>Beijing Key Laboratory for Microanalysis and Instrumentation, Department of Chemistry, Tsinghua University, China</p> |
| 14:10-14:25 | D34 | <p>DETECTION AND IDENTIFICATION OF COMPONENTS FROM EXTRACTS OF FRUCTUS CORNI BY LIQUID CHROMATOGRAPHY HYBRID ION TRAP TIME-OF-FLIGHT MASS SPECTROMETRY</p> <p>Jinting YAO</p> <p>Analytical Applications Center, Analytical Instrument Department, Shimadzu International Trading (Shanghai) Co., Limited, China</p> |
| 14:25-14:40 | D35 | <p>THE STUDY OF TWO DIFFERENT MODELS OF ADSORPTION DYNAMICS IN MOLECULAR IMPRINTING</p> <p>Song GAO</p> <p>School of Life Science, Beijing Institute of Technology, China</p> |
| 14:40-14:55 | D36 | <p>AUTOMATED DROPLET-BASED MICROFLUIDIC SYSTEM FOR SINGLE CELL ANALYSIS</p> <p>Qun FANG (Keynote)</p> <p>Institute of Microanalytical Systems, Department of Chemistry, Zhejiang University, China</p> |

14:55-15:15

Coffee Break

Chairman: Prof. Qun FANG and Prof. Yi CHEN

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|-------------|-----|--|
| 15:15-15:40 | D37 | <p>ANALYSIS OF POLYCYCLIC AROMATIC HYDROCARBONS BY SPME- GC-MS</p> <p>Yi CHEN
Key Lab of Analytical Chemistry, Institute of Chemistry, Chinese Academy of Sciences, China</p> |
| 15:40-16:05 | D38 | <p>THE CHACTERIZATION OF PROTEINS INTERACTED WITH RANDOM ssDNA LIBRARY IN LOW pH CAPILLARY ELECTROPHORESIS</p> <p>Qian LI
School of Life Science, Beijing Institute of Technology, China</p> |
| 16:05-16:20 | D39 | <p>STUDY OF INTERACTION BETWEEN JURKAT CELL AND ITS APTAMER BY CE- LIF</p> <p>Lu ZHANG
School of Life Science, Beijing Institute of Technology, China</p> |
| 16:20-16:35 | D40 | <p>A SIMPLE INTERFACE AND METHOD FOR ONLINE COUPLING SOLID PHASE EXTRACTION WITH HIGH PERFORMANCE LIQUID CHROMATOGRAPHY IN TRACE ANALYSIS</p> <p>Guilan HUANG
Beijing Key Laboratory for Microanalysis and Instrumentation, Department of Chemistry, Tsinghua University, China</p> |
| 16:35-16:50 | D41 | <p>DETERMINATION OF CERTAIN HAZARDOUS SUBSTANCES IN PLASTICS BY LIQUID CHROMATOGRAPHY HYBRID ION-TRAP TIME-OF-FLIGHT MASS SPECTROMETRY</p> <p>Fengyun PAN
Shimadzu International Trading (Shanghai) Co., Limited, Beijing 100020, China</p> |

17:05

Closing Ceremony

POSTER SESSION

Time: Oct. 14, 2011 PM (Friday) and Oct. 15, 2011 PM (Saturday)

Location: Harmonious Garden Hall, 2nd Floor of the Central Garden Hotel

- D42 INVESTIGATION ON THE INTERACTION BETWEEN CARBONIC ANHYDRASE AND THE INHIBITOR - 4-CARBOXYBENZENESULFONMIDE USING BIO-FUNCTIONALIZED CHROMATOGRAPHY

Qingqing QIAN

School of Life Science, Beijing Institute of Technology, China

- D43 HYDROGEN PEROXIDE-SODIUM HYDROSUFITE CHEMILUMINESCENCE SYSTEM COMBINED WITH HIGH-PERFORMANCE LIQUID CHROMATOGRAPHY TO DETECT BENZO[A]PYRENE-7, 10-QUINONE IN URBAN AEROSOLS

Ruibo LI^{1,2,3}, Takayuki KAMEDA², Ying LI², Akira TORIBA², Ning TANG², Kazuichi HAYAKAWA^{2*}, Jinming LIN^{3*}

¹School of Science, Beijing University of Chemical Technology, Beijing 10029, China

²Graduate School of Natural Science and Technology, Kanazawa University, Kakuma-machi, Kanazawa 920-1192, Japan

³Department of Chemistry, Tsinghua University, Beijing 100084, China

- D44 DETERMINATION OF EPIGALLOCATECHIN GALLATE IN HEALTH CARE FOOD BY HPLC

Yao XIE, Mengmeng SHI, Jia WANG

Beijing Dawn Aerospace Bio-tech Co. Ltd., 100190, China

- D45 DETERMINATION OF 17 PHTHALATE ACID ESTERS IN SAUCE OF INSTANT NOODLE USING ON-LINE GEL PERMEATION CHROMATOGRAPHY-GAS CHROMATOGRAPHY/MASS SPECTROMETRY

Xiaoli DENG, Jun FAN, Peng GAO, Taohong HUANG

Shanghai Analytical Applications Center, Shimadzu International Trading (Shanghai) Co., Limited, Shanghai 200052, China

- D46 SIMULTANEOUS DETERMINATION OF GLYCYRRHIZIN AND 15 FLAVONOIDS OF LICORICE BY HIGH PERFORMANCE LIQUID CHROMATOGRAPHY (HPLC) WITH DIFFERENT ULTRAVIOLET WAVELENGTHS

Shengyuan XIAO

School of Life Science, Beijing Institute of Technology, Beijing, 100081, China

- PREPARATION AND ANALYSIS OF THE NEW CLEANER
Xinying ZHAO^{1,2}, Bin XUE², Tan WANG¹, Rui JANG², Aiqin LUO²
D47 ¹School of Life Science, Beijing Institute of Technology, Beijing 100081, CHINA
²Beijing Center for Physical and Chemical Analysis, Beijing 100081, China
- DETECTION OF CHLORAMPHENICOL IN MILK SAMPLE USING MOLECULARLY IMPRINTED SOLID-PHASE EXTRACTION METHOD
D48 Lifei WU, Yun LIU, Xinying ZHAO, Song GAO, Aiqin LUO
School of Life Science, Beijing Institute of Technology, Beijing 100081, China
- SHELL POWDER AS A NEW CLEANER TO REMOVE RESIDUAL PESTICIDES FROM VEGETABLES
D49 Xinying ZHAO^{1,2}, Rui JIANG^{2*}, Tan WANG¹, Bin XUE², Aiqin LUO²
¹School of Life Science, Beijing Institute of Technology, Beijing 100081, China
²Beijing Center for Physical and Chemical Analysis, Beijing 100081, China
- DETERMINATION OF SULFUR AND PHOSPHORUS IN THE POLYMER BY ION CHROMATOGRAPHY WITH OXYGEN BOMB COMBUSTION
Yiting PAN¹, Hongyu FAN¹, Jinyuan JIANG², Yuhai JIAO^{1*}
D50 ¹School of Chemical Engineering, Beijing Institute of Petrochemical Technology, Beijing, 102617, P. R. China
²Research Center of Water Pollution Control Technology, Chinese Research Academy of Environmental Sciences, Beijing, 100012, P. R. China
- SPEED UP THE LC ANALYSIS OF TCM USING AGILENT POROSHELL 120 COLUMNS
D51 Yun ZOU, Rongjie FU
Agilent Technologies (Shanghai) Co., Ltd, Shanghai 200131, China
- CHALLENGING PESTICIDE ANALYSIS USING MID-POLARITY ULTRA INERT GC COLUMN
D52 Yun ZOU¹, Kenneth G. LYNAM², Doris SMITH² and Gary LEE²
¹Agilent Technologies (Shanghai) Co., Ltd, Shanghai 200131, China
²Agilent Technologies, Inc. Wilmington, DE 19808, USA
- TRACE SULFUR ANALYSIS BY USE OF SULFUR SELECTIVE DETECTORS IN GAS CHROMATOGRAPHY
Chunxiao WANG¹ Roger L. FIROR²
D53 ¹Agilent Technologies (Shanghai), 412 YingLun Road Waigaoqiao Free Trade Zone Shanghai 200131 P. R. China
²Agilent Technologies, Inc. 2850 Centerville Rd, Wilmington, DE 19808, USA



EDIBLE PLANT OIL ANALYSIS USING GCMS COUPLED WITH STATISTIC ANALYSIS

D54 Chongtian YU¹, Ying WANG¹

¹Agilent Technologies (China) Co., Ltd. Shanghai 200131, China

ANALYSIS OF ORGANOPHOSPHORUS PESTICIDES WITH AGILENT 7820 GAS CHROMATOGRAPH/ FLAME PHOTOMETRIC DETECTOR

D55 Qian TAO

Agilent Technologies Co., Ltd. (Shanghai), 412 YingLun Road, Waigaoqiao Free Trade Zone, Shanghai 200131, China

ANALYSIS OF PESTICIDE RESIDUES IN RICE USING QUECHERS AOAC KIT BY LC-MS/MS DETECTION

D56 Chenhao ZHAI, and Joan STEVENS

Agilent Technologies. Fax: 021-50482649; Tel: 021-20209132

DIRECTLY DETERMINE THE SULFOLANE IN THE AROMATIC HYDROCARBON BY LARGE VOLUME INJECTION

D57 Shun NA¹

¹Agilent Technologies Co. Ltd, No. 3 Wang Jing Bei Lu, Chao Yang District, Beijing, 100102, China

THE METHOD ABOUT DETERMINATION OF PEONY GLUCOSIDE IN LEMAI CAPSULE BY HPLC

D58 Zaijie CHEN¹, Houcai ZHANG², Chengping WANG², Yuexing ZHAO³

Welch Materials, Inc.

POLYMERASE CHAIN REACTION AND MICROCHIP ELECTROPHORESIS FOR SHORT TANDEM REPEAT TYPING

Xuexia LIN^{1,2}, Zhihua WANG¹, Jin-Ming LIN^{2*}

D59 ¹State Key Laboratory of Chemical Resource Engineering, Beijing University of Chemical Technology, Beijing 100029, China

²Beijing Key Laboratory for Microanalysis and Instrumentation, Department of Chemistry, Tsinghua University, Beijing 100084, China

KINETICS STUDY OF L-ASPARAGINASE ENZYMATIC MICROREACTORS USING MCE-LIF METHOD AND ITS APPLICATION FOR ACUTE LYMPHOBLASTIC LEUKEMIA TREATMENT

D60 Juan QIAO¹, Li QI^{1*}, Xiaoyu MU^{1,2}, Yi CHEN¹

¹Key Laboratory of Analytical Chemistry for Living Biosystems, Institute of Chemistry, Chinese Academy of Sciences, Beijing 100190, China

²Graduate School, Chinese Academy of Sciences, Beijing 100049, China

STUDY OF INTERACTION BETWEEN TRANSTERRIN AND ssDNA LIBRARY BY CAPILLARY ELECTROPHORESIS

- D61 Muyi HE, Fang MEI, Qian LI, Feng QU*
School of Life Science, Beijing Institute of Technology, Beijing 100081, China

INTERACTION COMPARISON OF BOVINE-THROMBIN AND BSA WITH HUMAN-THROMBIN APTAMER BASED ON AFFINITY CAPILLARY ELECTROPHORESIS

- D62 Fan CHEN¹, Xinying ZHAO^{1,2}, Feng QU^{1*}
¹Beijing Institute of Technology, Beijing, 100081, China
²Beijing Centre for Physical and Chemical Analysis, Beijing, 100081, China

THE INTERACTION COMPARISON OF BACTERIA WHOLE CELL AND PROTOPLASTS WITH ssDNA LIBRARY BASED ON CAPILLARY ELECTROPHORESIS

- D63 Zhaoyang MENG¹, Fang MEI¹, Feng QU¹, Li GU¹, Muyi HE¹, Xinying ZHAO²
¹School of Life Science, Beijing Institute of Technology, Beijing, 100081, China
²Beijing Center for Physical and Chemical Analysis, Beijing, 100089, China

INTERACTION CHARACTERIZATION OF BACTERIA SAMONELLA TYPHIMURIUM AND ITS APTAMER OR RANDOM ssDNA LIBRARY BASED ON AFFINITY CAPILLARY ELECTROPHORESIS

- D64 Li GU¹, Xinying ZHAO^{1,2}, Erning CHEN², Fang MEI¹, Feng QU^{1*}
¹School of Life Science, Beijing Institute of Technology, Beijing 100081, China
²Beijing Centre for Physical and Chemical Analysis, Beijing 100081, China

PREPARATION OF TEMPERATURE-RESPONSIVE ON/OFF-ADSORPTION CHROMATOGRAPHIC STATIONARY PHASE FOR ATP PURIFICATION

- D65 Xiao LIANG, Zongjian LIU, Rongji DAI*, Fangfang GENG, Yanli LIANG, Yulin DENG*
School of Life Science, Beijing Institute of Technology. Beijing 100081, China

COUPLING NORMAL PHASE HPLC WITH DIRECT ANALYSIS IN REAL TIME MASS SPECTROMETRY FOR THE ANALYSIS OF NNALS

- D66 Cuilan CHANG, Zhigui ZHOU, Yu BAI and Huwei LIU*
Institute of Analytical Chemistry, College of Chemistry and Molecular Engineering, Peking University, Beijing 100871, China

THE INFLUENCE OF SILICA PORE SIZE AND PARTICLE SIZE ON INSULIN - A SMALL MOLECULE OF PROTEIN SEPARATION

D67 Rongjie FU¹ and Maureen JOSEPH²¹Agilent Technologies (Shanghai) Co., Ltd, Shanghai 200131, China²Agilent Technologies Inc, 2850 Centerville Road Wilmington, DE 19808, USA

EDIBLE PLANT OIL ANALYSIS USING NON-AQUEOUS REVERSED PHASE (NARP) COUPLED WITH APCI-QUADRUPOLE TIME-OF-FLIGHT MASS SPECTROMETRY

D68 Ying WANG¹, Rongjie FU¹¹Agilent Technologies (Shanghai) Co., Ltd. Shanghai 200131, China

THERMAL STABILITY OF THIAZIDE AND RELATED DIURETICS DURING SUPERHEATED WATER CHROMATOGRAPHY

Guilan HUANG¹, Roger M. SMITH², Hassan Mabrook ALBISHRI^{2,3}, Jinming LIN^{1*}D69 ¹Beijing Key Laboratory for Microanalysis and Instrumentation, Department of Chemistry, Tsinghua University, Beijing 100084, China;²Department of Chemistry, Lough borough University, Lough borough, Leics LE11 3TU, UK;³Department of Chemistry, Faculty of Science, King Abdulaziz University, 80204, Jeddah 21589, Saudi Arabia

PREPARATION OF ENVIRONMENTALLY RESPONSIVE POLYMER MONOLITH BY ATRP for HPLC

Ying SHEN^{1,2}, Li QI^{1*}, Xiaoyi WEI^{1,2}, Rongyue ZHANG^{1,2}, Lanqun MAO¹D70 ¹Key Laboratory of Analytical Chemistry for Living Biosystems, Institute of Chemistry, Chinese Academy of Sciences, Beijing 100190, China²Graduate School, Chinese Academy of Sciences, Beijing 100049, China

PREPARATION MAGNETIC MESOPOROUS MATERIAL USED FOR SELECTIVE ENRICHMENT OF IMPORTANT CIS-DIOL-CONTAINING BIOMOLECULES

D71 Hua LI, Xianzhe SHI, Xin LU, Guowang XU*

CAS Key Laboratory of Separation Science for Analytical Chemistry, National Chromatographic Research and Analysis Center, Dalian Institute of Chemical Physics, Chinese Academy of Sciences, Dalian 116023, China

DANSYLATION DERIVATIZATION ENHANCED THE DETECTION OF AMINO ACIDS BY LIQUID CHROMATOGRAPHY MASS SPECTROMETRY

- D72 Weidong DAI, Chunxia ZHAO, Hongwei KONG, Xin LU, Guowang XU*
CAS Key Laboratory of Separation Science for Analytical Chemistry, National Chromatographic R&A Center, Dalian Institute of Chemical Physics, the Chinese Academy of Sciences, Dalian 116023, China

INVESTIGATIONS OF URINARY METABOLIC PROFILING USING GAS CHROMATOGRAPHY/MASS SPECTROMETRY: A PRETREATMENT METHOD INVESTIGATION

- D73 Guozhu YE, Peiyuan YIN, Xin LU, Guowang XU*
CAS Key Laboratory of Separation Science for Analytical Chemistry, National Chromatographic R&A Center, Dalian Institute of Chemical Physics, the Chinese Academy of Sciences, Dalian 116023, China

A NEW SPE MEDIA FOR THE ENRICHMENT OF TRACE ACRYLAMIDE IN WATER

- D74 Dingzhong YANG
Tianjin Bonna-Agela Technologists Co., Ltd., Tianjin 300457, China

DETERMINATION OF VINOBLASTIN WITH HYDROPHILIC INTERACTION HIGH PERFORMANCE LIQUID CHROMATOGRAPHY (HILIC)

- D75 Qunjie WANG
Tianjin Bonna-Agela Technologists Co., Ltd., Tianjin 300457, China

SOLID PHASE EXTRACTION OF CLEANERT PEP-2 TO EXTRACT NITROPHENOL IN THE WATER

- D76 Wan WANG
Tianjin Bonna-Agela Technologists Co., Ltd., Tianjin 300457, China

THE COMPARISON OF METHODS OF PROTEIN PRECIPITATION, SLE AND MAS TO TREAT DEXAMETHASONE IN PLASMA

- D77 Dingzhong YANG
Tianjin Bonna-Agela Technologists Co., Ltd., Tianjin 300457, China

SUPPORTED LIQUID-LIQUID EXTRACTION BASED ON DIATOMACEOUS EARTH MODIFIED BY SPECIAL TREATMENT

- D78 Qunjie WANG
Tianjin Bonna-Agela Technologists Co., Ltd., Tianjin 300457, China

THE DETERMINATION OF GLIPIZIDE IN PLASMA WITH CLEANERT MAS SPE

D79 Wan WANG

Tianjin Bonna-Agela Technologists Co., Ltd., Tianjin 300457, China

RAPID DETERMINATION OF DIOLS IN CHILDREN TOYS BY GCMS

D80 Andrew Tipler

PerkinElmer Inc., Shelton, CT, USA

DETERMINATION OF PESTICIDES IN CABBAGE BY GC BACK FLUSH SYSTEM

D81 ZhiLing CHEN, Jiayang HU, Lei CAO

Shimadzu International Trading (Shanghai) Co., Limited, Beijing Office, China

COMPARISON THE DIFFERENCE OF COMBUSTION METHOD AND WET CHEMICAL METHOD IN TOC ANALYSIS OF PHARMACEUTICAL WATER

D82 Jian LI¹, Taohong HUANG¹

¹Shimadzu Global COE for Application & Technical Development. No. 570 West Huaihai Road, Shanghai, 200052, China

DETERMINATION OF PHTHALATE ESTERS IN BEVERAGE USING FAST LIQUID CHROMATOGRAPHY-ELECTROSPRAY TANDEM MASS SPECTROMETRY

D83 Hengtao DONG*, Jintong YAO, Hongyuan HAO, Luying ZHOU, Yuki HASHI

Shimadzu International Trading (Shanghai) Co., Ltd, Analytical Instruments Dept. Analytical Applications Center, Shanghai 200052, China

ANALYSIS OF GLUCOCORTICOIDS IN MILK POWDER BY HIGH PERFORMANCE LIQUID CHROMATOGRAPHY HYBRID TRIPLE QUADRUPOLE MASS SPECTROMETER

D84 Hongyuan HAO*, Luying ZHOU, Hengtao DONG, Jintong YAO, and Yuki HASHI

Analytical Applications Center, Analytical Instruments Dept., Shimadzu International Trading (Shanghai) Co., Limited, Shanghai 200052, China

DETECTION THE RELEASE OF 12 N-NITROSAMINES IN RUBBER TEATS BY GAS CHROMATOGRAPHY MASS SPECTROMETRY WITH SOLID PHASE EXTRACTION

D85 Gao PENG¹, Fan JUN¹

¹Shimadzu International Trading (Shanghai) Co., Ltd., Shanghai 200052, China

DETERMINATION OF SULFA DRUGS IN PORK BY HIGH PERFORMANCE LIQUID CHROMATOGRAPHY HYBRID TRIPLE QUADRUPOLE MASS SPECTROMETER

D86 Luying ZHOU*, Hongyuan HAO, Hengtao DONG, Jinting YAO, and Yuki HASHI

Analytical Applications Center, Analytical Instruments Dept., Shimadzu International Trading (Shanghai) Co., Limited, Shanghai 200052, China

DETERMINATION OF SODIUM BENZOATE BY THE KINETIC STUDY OF ITS INHIBITORY EFFICIENCY ON DAAO WITH A CHIRAL LIGAND EXCHANGE CE METHODE

D87 Haizhi ZHANG^{1,2}, Li QI¹*, Juan QIAO¹, Lanqun MAO¹

¹Key Laboratory of Analytical Chemistry for Living Biosystems, Institute of Chemistry, Chinese Academy of Sciences, Beijing 100190, China

²Graduate School, Chinese Academy of Sciences, Beijing 100049, China



SCHEDULE OF SESSIONS

E. MAGNETIC RESONANCE

CHAIRMAN: Prof. Maili LIU

ORAL LECTURES

Time: Oct. 14, 2011 PM (Friday)

Location: Bright Garden Hall, Central Garden Hotel

14:00-14:05

Opening Speech by Prof. Maili LIU

Chairman: Prof. Maili LIU

14:05-14:35	E2	DETECTION OF LITHIUM ION CONDUCTIVE PATHWAY IN LITHIUM-ION RECHARGEABLE BATTERY USING STRAY FIELD IMAGING (STRAFI) Riqiang FU (Keynote) National High Magnetic Field Laboratory, Florida State University, Florida, USA
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14:35-15:05	E3	BROAD-BAND HOMO-NUCLEAR CORRELATIONS IN VERY HIGH MAGNETIC FIELD AT FAST AND ULTRA- FAST MAS FREQUENCIES Bingwen HU (Keynote) Physics Department & Shanghai Key Laboratory of Magnetic Resonance, East China Normal University, Shanghai, China
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15:05-15:25	E4	SIZE DEPENDENCE OF SUBSURFACE OXYGEN FORMATION ON SILVER NANOCATALYST: 109AG and 17O NMR STUDY Xuefeng WANG Dalian Institute of Chemical Physics, Chinese Academy of Sciences, Dalian, Liaoning, China
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15:25-15:40

Coffee Break

Chairman: Prof. Gary J. PIELAK

- | | | |
|-------------|----|---|
| 15:40-16:10 | E5 | <p>PROTON TRANSPORT IN NAFION PROBED BY SOLID STATE NMR SPECTROSCOPY AND MICRO-IMAGING</p> <p>Shangwu DING (Keynote)</p> <p>Department of Chemistry, National Sun Yat-sen University, Taiwan</p> |
| 16:10-16:40 | E6 | <p>PULSED ESR TECHNOLOGY AND ITS APPLICATION IN QUANTUM COMPUTATION</p> <p>Jiangfeng DU (Keynote)</p> <p>Hefei National Laboratory for Physical Sciences at Microscale and Department of Modern Physics, University of Science and Technology of China, Hefei, Anhui, China</p> |
| 16:40-17:00 | E7 | <p>SHORT- and LONG-RANGE ^1H-^{13}C DISTANCE MEASUREMENTS IN U-^{13}C, ^{15}N- LABELED PEPTIDES THROUGH SOLID STATE NMR</p> <p>Shenhui LI</p> <p>State Key Laboratory of Magnetic Resonance and Atomic and Molecular Physics, Wuhan Center for Magnetic Resonance, Wuhan Institute of Physics and Mathematics, the Chinese Academy of Sciences, Wuhan, China</p> |
| 17:00-17:20 | E8 | <p>SOLID-STATE MAS NMR STUDIES OF THE GRAPHENE OXIDE, GRAPHENE AND THEIR POLYMER COMPOSITE</p> <p>Mingming GUO</p> <p>Polymer Science Institute, the University of Akron, Akron, Ohio, USA</p> |
| 17:20-17:40 | E9 | <p>SOLID-STATE NMR STUDIES OF MOLECULAR DYNAMICS OF Ω-AMINO ACIDS</p> <p>Jing HUANG</p> <p>State Key Laboratory of Magnetic Resonance and Atomic and Molecular Physics, Wuhan Institute of Physics and Mathematics, Wuhan, P.R. China</p> |

Time: Oct. 15, 2011 AM (Saturday)

Location: Bright Garden Hall, Central Garden Hotel

Chairman: Prof. Shangwu DING



AN AUTOMATED METABOLOMICS SOFTWARE SYSTEM BASED ON NMR AND ISOTOPE DILUTION MASS SPECTROMETRY

Qiu CUI (Keynote)

8:30-9:00 E10 Shandong Provincial Key Laboratory of Energy Genetics, Qingdao Institute of BioEnergy and Bioprocess Technology, Chinese Academy of Sciences, Qingdao, China

COMBINED NMR AND LC_MS ANALYSIS REVEALS SYSTEMS METABOLIC RESPONSES OF PLANTS TO ENVIRONMENTAL STRESSES

Huiru TANG (Keynote)

9:00-9:30 E11 Biospectroscopy and Metabonomics Research Centre, State Key Lab Magn Reson Atom Mol Phys, Wuhan Inst Phys Math, Chinese Academy of Sciences, Wuhan, P. R. China

METABOLIC PHENOTYPING BY WHOLE ORGANISM NMR SPECTROSCOPY: APPLICATIONS TO FUNCTIONAL GENOMICS AND AGING STUDIES

Bénédicte ELENA-HERRMANN

9:30-9:50 E12 Université de Lyon, CNRS/ENS Lyon/UCB-Lyon 1, Centre de RMN à Très Hauts Champs, Villeurbanne, France

¹H NMR-BASED METABONOMIC ANALYSIS OF URINE FROM PATIENTS WITH OBSTRUCTIVE UROPATHY AFTER OPERATION

Hongchang GAO

9:50-10:10 E13 Department of Pharmacy, Wenzhou Medical College, Wenzhou, China

10:10-10:25

Coffee Break

Chairman: Prof. Huiru TANG

AUTOMATED NMR IN FRAGMENT BASED LEAD DISCOVERY

Ke RUAN (Keynote)

10:25-10:55 E14 School of Life Science, University of Science and Technology of China, Hefei, Anhui, China

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|-------------|-----|---|
| 10:55-11:15 | E15 | <p>FAST DETECTION OF CHOLINE CONTAINING METABOLITES IN LIVER USING 2D ^1H-^{14}N THREE-BOND CORRELATION (HN3BC) SPECTROSCOPY</p> <p>Xi-an MAO
 State Key Laboratory of Magnetic Resonance and Atomic Molecular Physics, Wuhan Institute of Physics and Mathematics, The Chinese Academy of Sciences, Wuhan, Hubei, China</p> |
| 11:15-11:35 | E16 | <p>TUMOR-TARGETED PARAMAGNETIC CONTRAST AGENTS</p> <p>Zhiliang CHENG
 Department of Bioengineering, University of Pennsylvania, Philadelphia, PA, USA</p> |
| 11:35-11:55 | E17 | <p>NOVEL NMR-TECHNOLOGY TO ASSESS FOOD QUALITY AND SAFETY</p> <p>Markus LINK
 Business Development, Bruker BioSpin GmbH, 76287 Rheinstetten, Germany</p> |

Time: Oct. 15, 2011 PM (Saturday)

Location: Bright Garden Hall, Central Garden Hotel

Chairman: Prof. Daiwen YANG

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| 13:30-14:00 | E18 | <p>STUDY PROTEIN STRUCTURE AND DYNAMICS BY NMR AND COMPUTATIONAL METHODS</p> <p>Lishan YAO (Keynote)
 Qingdao Institute of Bioenergy and Bioprocess Technology, Chinese Academy of Science, Qingdao, China</p> |
| 14:00-14:30 | E19 | <p>RIGID ATTACHMENT OF PARAMAGNETIC PROBES FOR VISUALIZING PROTEIN STRUCTURE AND DYNAMICS</p> <p>Chun TANG (Keynote)
 Wuhan Center for Magnetic Resonance, State Key Laboratory of Magnetic Resonance and Atomic and Molecular Physics, Wuhan Institute of Physics and Mathematics, Chinese Academy of Sciences, China</p> |



FUNCTIONAL AND SPECIFIC BINDING OF NRSF/REST
DIFFERENT ZNF MOTIFS TO NRSE/RE1 DSRNA AND
DSDNA INVOLVED IN NEURON GENE REPRESSION
AND ACTIVATION
14:30-14:50 E20 **Chunyang CAO**
State Key Laboratory of Natural Products and Bio-organic
Chemistry, Shanghai Institute of Organic Chemistry, Chinese
Academy of Sciences, Shanghai, P.R.China

SOLUTION STRUCTURE OF RAT LIPOCALIN 12
PROTEIN AND ITS INTERACTIONS WITH SMALL-
MOLECULAR LIGANDS
14:50-15:10 E21 **Donghai LIN**
College of Chemistry and Chemical Engineering, Xiamen
University, Xiamen, China

15:10-15:25 **Coffee Break**

Chairman: Prof. Chun TANG

WHEN THE PROTEIN NMR PERFORMS ITS BEST
Kyou-Hoon HAN (Keynote)
15:25-15:55 E22 Korea Research Institute of Bioscience and Biotechnology,
Daejeon, Korea

BIOFUNCTION AND BIOSAFETY ASSESSMENTS OF
ULTRA-SMALL SUPERPARAMAGNETIC PARTICLES
OF IRON OXIDE IN MAGNETIC RESONANCE
15:55-16:25 E23 **Jianghua FENG** (Keynote)
Department of Electronic Sciences, Xiamen University,
Xiamen, China

A NMR STUDY OF tRNA^{Leu} DYNAMICS IN SOLUTION
Qinglin WU
16:25-16:45 E24 Division of Life Science, The Hong Kong university of
Science and Technology, Hong Kong, P. R. of China

16:45-18:00 **Poster**

Time: Oct. 16, 2011 AM (Sunday)

Location: Bright Garden Hall, Central Garden Hotel

Chairman: Prof. Riqiang FU

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| 8:30-9:00 | E25 | <p>MEASUREMENT OF AMIDE HYDROGEN EXCHANGE RATE WITH SELECTIVE INVERSION OF WATER SIGNAL BY RADIATION DAMPING</p> <p>Daiwen YANG (Keynote)</p> <p>Department of biological sciences, National University of Singapore, Singapore</p> |
| 9:00-9:30 | E26 | <p>SAIL-NMR METHOD FOR PROTEIN STRUCTURES AND DYNAMICS</p> <p>Masatsune KAINOSHO (Keynote)</p> <p>Japan & Center for Priority Areas, Tokyo Metropolitan University, Tokyo, Japan</p> |
| 9:30-9:50 | E27 | <p>SUPPRESSING POINT SPREAD FUNCTION (PSF) ARTIFACTS IN NON-UNIFORMLY SAMPLED SPECTRA WITH RESAMPLING</p> <p>Bin JIANG</p> <p>State Key Laboratory of Magnetic Resonance and Atomic and Molecular Physics, Wuhan Institute of Physics and Mathematics, The Chinese Academy of Sciences, Wuhan, China</p> |
| 9:50-10:10 | E28 | <p>INVERSE RECOVERY PULSE SEQUENCE IN MAGNETIC RESONANCE WITH OPTIMIZED CONTRAST</p> <p>Xiaodong YANG</p> <p>Medical Imaging Department, Suzhou Institute of Biomedical Engineering and Technology (SIBET), Chinese Academy of Sciences (CAS). Suzhou, China</p> |

10:10-10:25

Coffee Break

Chairman: Prof. Kyou-Hoon HAN

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| 10:25-10:55 | E29 | <p>RELAXATION EFFECTS IN THE RECIPROCITY RELATION</p> <p>Shanmin ZHANG (Keynote)</p> <p>Physics Department and Shanghai key Laboratory of Magnetic Resonance, East China Normal University, Shanghai, China</p> |
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- 2D-NMR STUDIES OF A MODEL FOR KRYTOX®
FLUOROPOLYMERS (KF)
Xiaohong LI
10:55-11:15 E30 College of Chemistry, Chemical Engineering and Material
Science, Soochow University, Suzhou, Jiangsu Province,
China
- NMR BASED STUDIES OF MECHANICALLY
STRAINED ELASTIN
Cheng SUN
11:15-11:35 E31 Department of Physics, Brooklyn College of The City
University of New York, USA
- AGGREGATE PROPERTIES OF CHAPS/TRITON X-100
MIXED DETERGENTS STUDIED BY ¹H NMR
Xianguo QIN
11:35-11:55 E32 Wuhan Center for Magnetic Resonance, State Key Laboratory
of Magnetic Resonance and Atomic and Molecular Physics,
Wuhan Institute of Physics and Mathematics, Chinese
Academy of Sciences, Wuhan, China

Time: Oct. 16, 2011 PM (Sunday)

Location: Bright Garden Hall, Central Garden Hotel

Chairman: Prof. Masatsune KAINOSHO

- NMR MEASUREMENTS AT EXTREME CONDITIONS
Lizhi XIAO (Keynote)
13:30-14:00 E33 China University of Petroleum, Beijing, China
- A NEW BASELINE RECOGNITION METHOD IN NMR
Qingjia BAO
14:00-14:20 E34 Wuhan Institute of Physics and Mathematics, the Chinese
Academy of Sciences/State Key Laboratory of Magnetic
Resonance and Atomic and Molecular Physics, Wuhan,
People's Republic of China
- PREDICTION OF OIL PRODUCTION EFFICIENCY
WITH MR-ML TECHNOLOGY
Zhizhan WANG
14:20-14:40 E35 Sinopec Research Institute of Petroleum Engineering,
Beijing, China

A LOW-COST AND COMPACT 4-CHANNEL SPECTROMETER FOR 1.5T MAGNETIC RESONANCE IMAGING SYSTEM

14:40-15:00

E36

Liang XIAO

College of Information Science and Technology, Beijing
University of Chemical Technology, Beijing, China

15:00-15:15

Coffee Break



POSTER SESSION

Time: Oct. 15, 2011 (Saturday)

Location: 2nd Floor of the Central Garden Hotel

- A NEW ULTRA-SHORT PULSE GENERATOR WITH HIGH PRECISION FOR FT-EPR
Yugui HE
E37 Chinese Academic of Science, Wuhan Institute of Physics & Mathematic, State Key laboratory of Magnet Resonance & Atomic & Molecular Physics, Wuhan, China
- AN FPGA-BASED DIGITAL DOWN CONVERTER FOR NMR RECEIVER
Zhi ZHANG
E38 State Key Laboratory of Magnetic Resonance and Atomic and Molecular Physics, Wuhan Center for Magnetic Resonance, Wuhan Institute of Physics and Mathematics, Chinese Academy of Sciences, Wuhan, China
- ¹H NMR-BASED METABONOMIC STUDY ON SERUM OF RENAL INTERSTITIAL FIBROSIS RATS INDUCED BY UNILATERAL URETERAL OBSTRUCTION
Haiyan ZHANG
E39 Department of Pharmacy, Wenzhou Medical College, Wenzhou, P. R. China
- APPLICATION OF SOLID NMR IN THE GAS HYDRATE STUDIES
Changling LIU
E40 Key Laboratory of Marine Hydrocarbon Resources and Environmental Geology, Ministry of Land and Resources, Qingdao 266071, Shandong, China
- ENDOHEDRAL ADSORPTION IS PREFERENTIAL: AN NMR STUDY OF METHANOL ADSORPTION IN MWNTS
Xin LIU
E41 State Key Laboratory of Catalysis, Dalian Institute of Chemical Physics, Chinese Academy of Sciences, Dalian, China
- NMR SPECTROSCOPIC-BASED METABONOMIC INVESTIGATION ON THE BIOCHEMICAL EFFECTS INDUCED BY TIBETAN MEDICINE RENQINGMANGJUE
Zhongfeng LI
E42 Department of Chemistry, Capital Normal University, Beijing 100048, China

- APPLICATION OF ^1H NMR-BASED METABONOMICS IN THE STUDY OF METABOLIC PROFILING OF DIABETIC RATS DURING THE EVOLUTION OF DIABETES
- E43 Mimi GUAN
Department of Pharmacy, Wenzhou Medical College, Wenzhou 325035, China
- AMPLITUDE MODULATED DOUBLE CROSS POLARIZATION IN MAGIC ANGLE SPINNING NMR: SIMULTANEOUS AND SELECTIVE POLARIZATION TRANSFER
- E44 Zhengfeng ZHANG
State Key Laboratory of Magnetic Resonance and Atomic and Molecular Physics, Wuhan Center for Magnetic Resonance, Wuhan Institute of Physics and Mathematics, Chinese Academy of Science, Wuhan, PR. China
- ^{19}F NMR MEASUREMENTS OF PROTEINS ROTATIONAL MOBILITY IN ESCHERICHIA COLI
- E45 Yansheng YE
Wuhan Institute of Physics and Mathematics, the Chinese Academy of Sciences/State Key Laboratory of Magnetic Resonance and Atomic and Molecular Physics, Wuhan, People's Republic of China
- THE DYNAMICS AND MECHANISM OF QUATERNARY AMMONIUM DIMERIC SURFACTANTS 14-S-14 IN MIXED SOLUTIONS WITH SEVERAL CONVENTIONAL SURFACTANTS
- E46 Jun LIU
Wuhan Center for Magnetic Resonance, State Key Laboratory of Magnetic Resonance and Atomic and Molecular Physics, Wuhan Institute of Physics and Mathematics, Chinese Academy of Sciences, Wuhan, China
- NUCLEAR MAGNETIC RESONANCE STUDIES ON A RESPONSE REGULATOR IN TWO-COMPONENT SIGNAL TRANSDUCTION SYSTEM
- E47 Yixiang LIU
Wuhan Center for Magnetic Resonance, State Key Laboratory of Magnetic Resonance and Atomic and Molecular Physics, Wuhan Institute of Physics and Mathematics, Chinese Academy of Sciences, Wuhan, China



MOLECULAR DYNAMICS OF N-METHYLATED GLYCINES STUDIED BY SOLID-STATE NMR TECHNIQUES

E48

Jing HUANG

State Key Laboratory of Magnetic Resonance and Atomic and Molecular
Physics, Wuhan Institute of Physics and Mathematics, Wuhan, P.R. China

SCHEDULE OF SESSIONS

F. ELECTROANALYTICAL CHEMISTRY

CHAIRMAN: Prof. Yuanhua SHAO and Prof. Lanqun MAO

ORAL LECTURES

Time: Oct. 14, 2011 PM (Friday)

Location: Room 204, Central Garden Function Hall, Central Garden Hotel

13:30-13:35

Open Remarks by Prof. Yuanhua SHAO

Chairman: Prof. Hongyuan CHEN and Prof. Takashi KAKIUCHI

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| | | BIOMIMETIC MEMBRANE AND NANOPORE
Erkang WANG (Keynote)
Changchun Institute of Applied Chemistry, Chinese Academy of Sciences, China |
| 13:35-14:00 | F3 | |
| | | PROBING PROTEIN KINASE CATALYZED
P H O S P H O R Y L A T I O N R E A C T I O N S
ELECTROCHEMICALLY
14:00-14:25 F4 Heinz-Bernhard KRAATZ (Keynote)
University of Toronto, Canada |
| | | INTERFAICAL BEHAVIOR OF BIOMOLECULES AND
BIOELECTROCHEMICAL ANALYSIS
14:25-14:50 F5 Xinghua XIA (Keynote)
Nanjing University, China |
| | | ELECTROCHEMICAL FOUNDATIONS AND DYNAMICS
STUDY OF ELECTRON-TRANSFER OF PORPHYRINS AT
INTERFACES
14:50-15:05 F6 Xiaoquan LU (Invited)
Northwest Normal University, China |
| | | SECM APPROCHES TO MICROFABRICATION
15:05-15:20 F7 Dongping ZHAN (Invited)
Xiamen University, China |
| 15:20-15:45 | | Coffee Break |



第十四届北京分析测试学术报告会及展览会

Chairman: Prof. Shaojun DONG and Prof. Robert A.W. DRYFE

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| 15:45-16:10 | F8 | ELECTRICALLY STIMULATED COLOR TUNABILITY OF
POLY (N-ISOPROPYLACRYLAMIDE)-CO-ACRYLIC ACID
MICROGEL/AU ASSEMBLIES
Michael J. SERPE (Keynote)
University of Alberta, Canada |
| 16:10-16:35 | F9 | PROMISING CARBONS FOR SUPERCAPACITOR DERIVED
FROM FUNGI
Xiurong YANG (Keynote)
Changchun Institute of Applied Chemistry, Chinese Academy of
Sciences, China |
| 16:35-16:50 | F10 | STUDY ON QUENCHING EFFECTS OF OXYGEN DURING
ELECTROCHEMILUMINESCENCE PROCESS
Xi CHEN (Invited)
Xiamen University, China |
| 16:50-17:05 | F11 | SOME APPROACHES TO IMPROVE THE SENSITIVITY
FOR ELECTROCHEMILUMINESCENT DETECTION USING
RUTHENIUM COMPLEX
Guobao XU (Invited)
Changchun Institute of Applied Chemistry, Chinese Academy of
Sciences, China |
| 17:05-17:20 | F12 | SINGLE-MOLECULE FORCE SPECTROSCOPY AND
IMAGING OF BIOMOLECULES
Jilin TANG (Invited)
Changchun Institute of Applied Chemistry, Chinese Academy of
Sciences, China |

Time: Oct.15, 2011 AM (Saturday)

Location: Room 204, Central Garden Function Hall, Central Garden Hotel

Chairman: Prof. Michael J. SERPE and Prof. Xiurong YANG

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| 8:00-8:25 | F13 | GRAPHENE: SYNTHESIS, HYBRIDS, AND ANALYTICAL
APPLICATIONS
Shaojun DONG (Keynote)
Changchun Institute of Applied Chemistry, Chinese Academy of
Sciences, China |
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| 8:25-8:50 | F14 | <p>ELECTROCHEMICAL PROPERTIES OF LOW-DIMENSIONAL CARBONS: NANOTUBES AND GRAPHENE</p> <p>Robert A.W. DRYFE (Keynote)
University of Manchester, U.K.</p> |
| 8:50-9:05 | F15 | <p>FUNCTIONAL CARBON-BASED BIOSENSING SYSTEM FOR ELECTROANALYSIS</p> <p>Baohong LIU (Invited)
Fudan University, China</p> |
| 9:05-9:20 | F16 | <p>SYNTHESIS GRAPHENE-BASED NANOCOMPOSITES AND APPLY IN ELECTROCHEMICAL SENSORS</p> <p>Zhenxin WANG (invited)
Changchun Institute of Applied Chemistry, Chinese Academy of Sciences, China</p> |
| 9:20-9:35 | F17 | <p>SIMULTANEOUS DETERMINATION OF HQ AND CC AT POLYDOPAMINE-GRAPHENE MODIFIED ELECTRODE</p> <p>Yindi LI
East China Jiao Tong University, China</p> |
| 9:35-9:50 | F18 | <p>HIGHLY EFFICIENT NANOFLUIDIC PRECONCENTRATION OF DNA IN FUSED SILICA CAPILLARY</p> <p>Zhiyong WU (Invited)
Northeastern University, China</p> |
| 9:50-10:05 | F19 | <p>ELECTROCHEMICAL BIOSENSOR BASED ON NANODIAMOND FUNCTIONIZED WITH 1,2-BIS (2-AMINOETHOXY) ETHANE</p> <p>Hongxia LUO
Remin University, China</p> |
| 10:05-10:35 | | Coffee Break |
| | | Chairman: Prof. Xiaoquan LU and Prof. Heinz-Bernhard KRAATZ |
| 10:35-11:00 | F20 | <p>IONIC LIQUID SALT BRIDGE WITH LOW SOLUBILITY OF WATER BASED ON HIGHLY HYDROPHOBIC IONIC LIQUIDS</p> <p>Takashi KAKIUCHI (Keynote)
Kyoto University, Japan</p> |



IONIC LIQUIDS: SOLVENTS AND ELECTROLYTES FOR CHEMICAL SENSOR DEVELOPMENT

11:00-11:25 F21 **Xiangqun ZENG** (Keynote)
Oakland University, USA

WATER IN IONIC LIQUIDS: ELECTROCHEMICAL CONCERNS

11:25-11:40 F22 **Chuan ZHAO**
The University of New South Wales, Australia

ELECTROCHEMICAL AND ELECTROANALYTICAL APPLICATIONS OF IONIC LIQUIDS

11:40-11:55 F23 **Ping YU**
Institute of Chemistry, the Chinese Academy of Sciences, China

Time: Oct. 15, 2011 PM (Saturday)

Location: Room 204, Central Garden Function Hall, Central Garden Hotel

Chairman: Prof. Takeo OHSAKA and Prof. Xiangqun ZENG

ELECTROKINETIC TRANSPORT OF NEUTRAL SOLUTES IN BRAIN TISSUE. A NEW APPROACH TO SAMPLING

13:30-13:55 F24 **Stephen WEBER** (Keynote)
University of Pittsburgh, USA

ELECTROANALYTICAL AND SURFACE PLASMON RESONANCE DETECTIONS OF BIOMARKERS RELATED TO CANCERS AND NEURODEGENERATIVE DISEASES

13:55-14:20 F25 **Feimeng ZHOU** (Keynote)
California State University, USA

IN VIVO ELECTROANALYTICAL CHEMISTRY AND BEYOND

14:20-14:45 F26 **Lanqun MAO** (Keynote)
Institute of Chemistry, the Chinese Academy of Sciences, China

REAL-TIME MONITORING OF REACTIVE OXYGEN SPECIES (ROS) BASED ON INORGANIC-ORGANIC NANOCOMPOSITES

14:45-15:00 F27 **Yang TIAN** (Invited)
Tongji University, China

15:00-15:15 F28 ENERGY TRANSFER BETWEEN CDS QUANTUM DOTS AND AU NANOPARTICLES IN PHOTOELECTROCHEMICAL DETECTION
Weiwei ZHAO
Nanjing University, China

15:15-15:45 **Coffee Break**

Chairman: Prof. Stephen WEBER and Prof. Junjie ZHU

15:45-16:00 F29 CASCADE SIGNAL AMPLIFICATION STRATEGY FOR ELECTROCHEMICALLY MONITORING PHOSPHORYLATION
Genxi LI (Invited)
Nanjing University, China

16:00-16:15 F30 CHEMILUMINESCENCE DETECTION OF CANCER CELL USING DNAZYME-BASED ROLLING CIRCLE AMPLIFICATION
Shusheng ZHANG (Invited)
Qingdao University of Science and Technology, China

16:15-16:30 F31 ELECTROGENERATED CHEMILUMINESCENCE BIOSENSOR INCORPORATING NANO-MATERIALS AMPLIFICATION
Chengxiao ZHANG (Invited)
Shaanxi Normal University, China

16:30-16:45 F32 DNA-BASED NANOASSEMBLIES FOR BIOANALYSIS
Zhaoxiang DENG (Invited)
University of Science and Technology of China, China

16:45-17:00 F33 ELECTROCHEMICAL IMMUNOASSAY OF PHOSPHORYLATED PROTEIN BASED ON MULTIENZYMES AMPLIFICATION STRATEGY
Dan DU (Invited)
Central China Normal University, China

17:00-17:15 F34 APTAMER-BASED ASSAY FOR THROMBIN USING GOLD NANOPARTICLE TAG AND INDUCTIVELY COUPLED PLASMA MASS SPECTROMETRY DETECTION
Qiang ZHAO (Invited)
Shanxi University, China



- 17:15-17:30 F35 SENSITIVE AND DIRECT IMPEDIMETRIC APTASENSOR FOR THE DETERMINATION OF THROMBIN IN UNTREATED CLINICAL SAMPLES BASED ON TERNARY MONOLAYERS AS RECOGNITION INTERFACES

Honglan QI

Shaanxi Normal University, China

- 17:30-17:45 F36 AN ELECTROCHEMICAL APTASENSOR BASED ON ENZYME LINKED APTAMER ASSAY

Yinglin ZHOU

Peking University, China

Time: Oct. 16, 2011 AM (Sunday)

Location: Room 204, Central Garden Function Hall, Central Garden Hotel

Chairman: Prof. Feimeng ZHOU and Prof. I-Ming HSING

- 8:00-8:25 F37 SELECTIVE DETECTION OF AS(III) AT AU(111)-LIKE POLYCRYSTALLINE GOLD ELECTRODE

Takeo OHSAKA (Keynote)

Tokyo Institute of Technology, Japan

- 8:25-8:50 F38 H₂S MICROELECTROCHEMICAL SENSORS FOR BIOMEDICAL APPLICATIONS

Xueji ZHANG (Keynote)

University of South Florida, USA

- 8:50-9:15 F39 ON THE DISSOLVED CO₂ DETERMINATION IN WATER

Carlos PEREIRA (Keynote)

Faculdade de Ciências Universidade do Porto, Portugal

- 9:15-9:30 F40 PREPARATION OF Pt NANOPARTICLE-LOADED CARBON NANOFIBER ELECTRODE AND FOR HYDROGEN PEROXIDE SENSING

Tianyan YOU (Invited)

Changchun Institute of Applied Chemistry, Chinese Academy of Sciences (CAS), China

9:30-10:00

Coffee Break

Chairman: Prof. Xueji ZHANG and Prof. Lanqun MAO

- 10:00-10:25 F41 ELECTROCHEMISTRY BASED PLATFORM FOR REAL-TIME MONITORING OF PCR AMPLICONS FOR POINT OF CARE APPLICATIONS

I-Ming HSING (Keynote)

The Hong Kong University of Science and Technology, China

- FUNCTIONAL NANOPARTICLES FOR
ELECTROCHEMICAL CYTOSENSORS
- 10:25-10:50 F42 **Junjie ZHU** (Keynote)
Nanjing University, China
- CARBON NANOMATERIALS - BASED
ELECTROCHEMICAL SENSING PLATFORM:
FABRICATION AND APPLICATION
- 10:50-11:05 F43 **Lehui LU** (Invited)
Changchun Institute of Applied Chemistry, Chinese Academy of
Sciences, China
- FABRICATION OF CHITOSAN/GLUCOSE OXIDASE-
POLY(ANILINEBORONIC ACID)-AUNANO/AU- PLATED
AU ELECTRODE FOR BIOSENSOR AND BIOFUEL CELL
- 11:05-11:20 F44 **Qingji XIE** (Invited)
Hunan Normal University, China
- CONTROLLABLE FLUORESCENCE RESONANCE ENERGY
TRANSFER BASED ON QUADRUPLEX DNA AND GOLD
NANOPARTICLES
- 11:20-11:35 F45 **Jifeng LIU** (Invited)
Liaocheng University, China
- ECL IMAGING LATENT FINGERPRINTS
- 11:35-11:50 F46 **Bin SU** (Invited)
Zhejiang University, China
- 11:50-12:00 **Close section by Lanqun MAO and Yuanhua SHAO**



POSTER SESSION

Time: Oct. 15, 2011 AM (Friday)

Location: 2nd Floor of the Central Garden Hotel

- F47 SECM IMAGING OF LATENT FINGERPRINTS ON METAL CONDUCTOR SURFACES
Gang QIN, Meiqin ZHANG, Ting ZHANG, Yang ZHANG and Xueji ZHANG
Research Center for Bioengineering and Sensing Technology, University of Science & Technology Beijing, 100083, China
- F48 SIMULTANEOUS DETERMINATION OF DIPHENOLIC COMPOUNDS BASED ON ELECTROSPUN CARBON NANOFIBER
Qiaohui GUO, Haoqing HOU, and Tianyan YOU
¹State Key Laboratory of Electroanalytical Chemistry, Changchun Institute of Applied Chemistry, Chinese Academy of Sciences, Jilin 130022, P.R. China
²College of Chemistry and Chemical Engineering, Jiangxi Normal University, Nanchang 330027, P.R. China
- F49 ELECTROCATALYTIC OXIDATION OF FORMIC ACID BY ELECTROSPUN CARBON NANOFIBER-SUPPORTED PtAu BIMETALLIC ELECTROCATALYST
Jianshe HUANG, Xiaoyu XU, Haoqing HOU, Tianyan YOU
¹State Key Laboratory of Electroanalytical Chemistry, Changchun Institute of Applied Chemistry, Chinese Academy of Sciences, Changchun 130022, P.R. China
²College of Chemistry and Chemical Engineering, Jiangxi Normal University, Nanchang 330027, P.R. China
- F50 DETERMINATION OF LYSINE BY CAPILLARY ELECTROPHORESIS USING INDIRECT ELECTROCHEMILUMINESCENCE DETECTION
Huan YU, Tianyan YOU
State Key Laboratory of Electroanalytical Chemistry, Changchun Institute of Applied Chemistry, Chinese Academy of Sciences, Changchun, Jilin 130022, P. R. China

FREE-LABELING ELECTROCHEMICAL IMPEDANCE BIOSENSOR FOR THE DETECTION OF CARDIAC TROPONIN I BASED ON PEPTIDE AS RECOGNITION MOLECULE

- F51 Rui JING, Honglan QI, Qiang GAO, Chengxiao ZHANG
Key Laboratory of Analytical Chemistry for Life Science of Shaanxi Province, School of Chemistry and Chemical Engineering, Shaanxi Normal University, Xi'an 710062, PR China

ELECTROCHEMICAL IMPEDANCE STUDY OF THE INTERFACE INTERACTION BETWEEN THE IMMOBILIZED PEPTIDE AND THE TRIS(2, 2'-BIPYRIDYL) RUTHENIUM DERIVATIVE LABELED PEPTIDE

- F52 Ting ZHANG, Fen MA, Honglan QI, Qiang GAO, Chengxiao ZHANG
Key Laboratory of Analytical Chemistry for Life Science of Shaanxi Province, School of Chemistry and Materials Science, Shaanxi Normal University, Xi'an, 710062, P. R. China

APPROACH TO REDUCING NON-SPECIFIC ABSORPTION OF PROTEINS ON THE SURFACE OF GLASSY CARBON ELECTRODE IN ELECTROGENERATED CHEMILUMINESCENCE BIOASSAY

- F53 Tingting LI, Ke CHEN, Honglan QI, Qiang GAO, Chengxiao ZHANG
Key Laboratory of Analytical Chemistry for Life Science of Shaanxi Province, School of Chemistry and Materials Science, Shaanxi Normal University, Xi'an, 710062, P.R. China

ENANTIOSELECTIVE RECOGNITION OF PROPRANOLOL BASED ON ITS COPPER COMPLEX

- F54 Lisha CHEN, Zhiwei ZHU
Institute of Analytical Chemistry, College of Chemistry and Molecular Engineering, Peking University, Beijing 100871, P. R. China

A NEW METHOD FOR SEPARATING AND DETERMINING AMMONIA NITROGEN-FOR DETERMINING KJELDAHL NITROGEN

- F55 Weide WANG
Jinan Precision&Scientific Instrument CO.,LTD, Jinan City, Shandong Province High-tech Industrial Development Zone, 51 South Road, Industrial Park, Shandong Little Duck Group

DIFFERENTIAL BEHAVIORS OF FIVE COMMON REDOX PROBES AT Au ELECTRODE FOR THEIR USES IN CHARACTERIZATION OF THE MODIFIED ELECTRODES

Dongdong ZHANG, Chengxiao ZHANG, Xiangqun ZENG

- F56 ¹Chemistry Department, Oakland University, Rochester, MI 48309, USA
²School of Chemistry and Chemical Engineering, Shaanxi Normal University, Xi'an, 710062, P.R China
³School of Medicine, Xi'an Jiaotong University, Xi'an, 710061, P.R China

ELECTROGENERATED CHEMILUMINESCENCE BIOSENSOR FOR HIGHLY SENSITIVE DETERMINATION OF CANCER CELLS BASED ON CONCAVALIN A LABELED WITH RUTHENIUM COMPLEX

- F57 Haiying YANG, Kaili YANG, Ke CHEN, Honglan QI, Chengxiao ZHANG
 Key Laboratory of Analytical Chemistry for Life Science of Shaanxi Province, School of Chemistry and Materials Science, Shaanxi Normal University, Xi'an, 710062, P. R. China

INVESTIGATION OF THE ELECTROCHEMICAL PROCESSES RELATED TO IT COUPLING WITH ET USING HYDROPHILIC DROPLET ELECTRODE

- F58 Wenbo ZHAO, Xiaohong YIN, Yuan GAO, Xiang XIE, Shujuan LIU, Bo LI, Zhiwei ZHU, Meixian LI and Yuanhua SHAO
 College of Chemistry and Molecular Engineering, Peking University, Beijing 100871, China

CHARACTERIZATION OF MICRO/NANOPIPETTES BY AMPEROMETRY

- F59 Yonghui QIAO, Xinyu ZHU, Bo LI, Wenbo ZHAO, and Yuanhua SHAO
 College of Chemistry and Molecular Engineering, Peking University, Beijing 100871, China

SYNTHESIS OF PALLADIUM NANOPARTICLES ON GRAPHENE OXIDE AND THEIR APPLICATION IN A NONENZYMATIC GLUCOSE SENSOR

- F60 Qiyu WANG, Xiaoqiang CUI
 Department of Materials Science, Jilin University, Changchun130012, People's Republic of China

GRAPHENE AS A SPACER TO LAYER-BY-LAYER ASSEMBLE FUNCTIONALIZED NANOSTRUCTURES FOR MOLECULAR BIOELECTRONIC DEVICES

Xiang WANG, Jingfang WANG, Hanjun CHENG, Ping YU, Jianshan YE, and Lanqun MAO

F61 ¹Beijing National Laboratory for Molecular Sciences, Key Laboratory of Analytical Chemistry for Living Biosystems, Institute of Chemistry, The Chinese Academy of Sciences, Beijing 100190, China

²College of Chemistry and Chemical Engineering, South China University of Technology, Wushan, Guangzhou 510640, China

DYNAMIC CHANGES IN ELECTRICAL ACTIVITY AND EXTRACELLULAR ASCORBATE IN RAT CORTEX FOLLOWING FOCAL CEREBRAL ISCHEMIA AND POSTCONDITIONING

Dalei WANG, Lanqun MAO

F62 Beijing National Laboratory for Molecular Sciences, Key Laboratory of Analytical Chemistry for Living Biosystems, Institute of Chemistry, The Chinese Academy of Sciences, Beijing 100190, China.

ELECTROCHEMICAL QUANTIFICATION OF HYGROSCOPICITY OF IONIC LIQUIDS

Qin QIAN, Hanjun CHENG, Xiang WANG, and Lanqun MAO

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²Graduate School of CAS, Beijing 100049, China

BIOELECTROCHEMICALLY ACTIVE INFINITE COORDINATION POLYMER: ONE-POT SYNTHESIS AND BIOSENSING PROPERTY

Pengcheng HUANG, Junjie MAO, Lifen YANG, Ping YU, and Lanqun MAO

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²Graduate School of the Chinese Academy of Sciences, Beijing 100049, China

A MICROFLUIDIC GLUCOSE/O₂ BIOFUEL CELL

Hanjun CHENG, Qin QIAN, Lanqun MAO

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²Also in the Graduate School of CAS

COMPARATIVE STUDIES OF ELECTROCHEMILUMINESCENCE OF $[Ru(BPY)_3]^{2+}$ /TPA AND THE EFFECT OF TRITON X-100 AT DIFFERENT ELECTRODES

Saima PARVEEN, Yali YUAN, Lianzhe HU, Zhang WEI, Aziz-ur-REHMAN, and Guobao XU

F66 ^aState Key Laboratory of Electroanalytical Chemistry, Changchun Institute of Applied Chemistry, Chinese Academy of Sciences, Changchun, Jilin 130022, P. R. China

^bDepartment of Chemistry, The Islamia University of Bahawalpur, Bahawalpur, Pakistan

^cGraduate University of the Chinese Academy of Sciences, Chinese Academy of Sciences

ULTRASENSITIVE SIGNAL-ON DNA BIOSENSOR BASED ON NICKING ENDONUCLEASE ASSISTED ELECTROCHEMISTRY SIGNAL AMPLIFICATION

Zhongyuan LIU, Wei ZHANG, Shuyun ZHU, Ling ZHANG, Lianzhe HU, Saima PARVEEN and Guobao XU

F67 ¹State Key Laboratory of Electroanalytical Chemistry, Changchun Institute of Applied Chemistry, Chinese Academy of Sciences, Changchun, Jilin 130022, PR China

²Graduate University of the Chinese Academy of Sciences, PR China

³Department of Chemistry, Baghdad-ul-Jadeed Campus, The Islamia University of Bahawalpur, Bahawalpur, Pakistan

THREE-DIMENSIONAL NETWORK POLYAMIDOAMINE DENDRIMER-AU NANOCOMPOSITES FOR THE CONSTRUCTION OF MEDIATOR-FREE HORSE RADISH PEROXIDASE BIOSENSORS

Youyu ZANG*, Meiling LIU, Shouzhao YAO

F68 Key Laboratory of Chemical Biology & Traditional Chinese Medicine Research (Ministry of Education, China), College of Chemistry and Chemical Engineering, Hunan Normal University, Changsha 410081, P. R. China

CASCADE SIGNAL AMPLIFICATION FOR SENSITIVE DETECTION OF CANCER CELL

Ying LI, Xiaoting JI, Yan ZENG, Shusheng ZHANG

F69 State Key Laboratory Base of Eco-chemical Engineering, College of Chemistry and Molecular Engineering, Qingdao University of Science and Technology, Qingdao 266042, P. R. China.

AVAILABILITY OF THE LYSOZYME APTAMER IN THE APTAMERIC DETECTION OF HUMAN SERUM LYSOZYME

Rui REN, Zhaotao YU, Yuanming ZOU, Shusheng ZHANG

- F70 State Key Laboratory Base of Eco-chemical Engineering, College of Chemistry and Molecular Engineering, Qingdao University of Science and Technology, Qingdao 266042, P. R.China

CHEMILUMINESCENCE DETERMINATION OF DNA BASED ON APTAMERS AND MAGNETIC BEADS

Sujuan YE, Yunxu YANG, Shusheng ZHANG

- F71 State Key Laboratory Base of Eco-chemical Engineering, College of Chemistry and Molecular Engineering, Qingdao University of Science and Technology, Qingdao 266042, P. R.China.

MULTIFUNCTIONAL DNA-NANORIBBON-BASED PROBE FOR THE DETECTION OF CANCER CELLS

Hui ZHANG, Yuewei FAN, and Shusheng ZHANG

- F72 State Key Laboratory Base of Eco-chemical Engineering, College of Chemistry and Molecular Engineering, Qingdao University of Science and Technology, Qingdao 266042, Shandong, P. R. China.

FACILE PATTERNING OF REDUCED GRAPHENE OXIDE FILM INTO MICROELECTRODE ARRAY FOR HIGHLY SENSITIVE SENSING

Fengwang LI, Mianqi XUE, Xinlei MA, Meining ZHANG and Tingbing CAO

- F73 Department of Chemistry, Renmin University of China, Beijing 100872, P. R. China

THE ENHANCED STABILITY OF THE GLUCOSE OXIDASE/FERROCENE ELECTRODE BY MODIFYING WITH POLY-L-LYSINE

Tong SHU, Lei SU, Ying TONG, Wei GONG, and Xueji ZHANG

- F74 Research Center for Bioengineering and Sensing Technology, University of Science and Technology Beijing, Beijing 100083, China

DIRECT ELECTROCHEMISTRY AND ELECTROCATALYSIS OF HORSE RADISH PEROXIDASE IMMOBILIZED ON GRAPHENE OXIDE AND NAFION COMPOSITE FILM MODIFIED ELECTRODE

Lili ZHANG, Huimin ZHANG

- F75 School of Chemistry, Beijing Institute of Technology, Beijing 100081, China



STUDY OF FACET-DEPENDENT ELECTROCHEMILUMINESCENCE SPECTRUM OF ZNO NANOSTRUCTURE

Lei WANG, Jifeng LIU, Xuexi GAO, Wenjun WANG, Jianbo JIA

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China

SCHEDULE OF SESSIONS

G. ANALYTICAL TECHNIQUES IN LIFE SCIENCES

CHAIRMAN: Prof. Xiaohong QIAN and Prof. Xiaogang CHU

ORAL LECTURES

Time: Oct. 14, 2011 PM (Friday)

Location: Splendid Garden Hall, 2nd Floor of the Central Garden Hotel

Topic: Novel Analytical Techniques in Life Sciences

Chairman: Prof. Yi CHEN and Prof. Weijie QIN

14:00-14:25 G3 BIOACTIVITY-CONSERVED CARBOHYDRATE
MICROARRAY CHIPS
Yi CHEN (Keynote)
Key Lab of Analytical Chemistry, Institute of Chemistry,
Chinese Academy of Sciences, China

14:25-14:45 G4 SIMULTANEOUSLY ANALYSIS OF GLYCOSYLATION
AND SIALYLATION OF PSA REVEALS DIFFERENTIAL
DISTRIBUTION OF GLYCOSYLATION FORMS OF PSA
FROM PROSTATE CANCER TISSUES
Yan LI
Department of Pathology, Johns Hopkins University, USA
Institute of Biophysics, Chinese Academy of Sciences, China

14:45-15:10 G5 ATOM TRANSFER RADICAL POLYMERIZATION
MODIFIED NANOPARTICLES: A NOVEL TRYPSIN
IMMOBILIZATION MATRIX FOR HIGHLY EFFICIENT
PROTEOME DIGESTION, ¹⁸O LABELING AND MRM
QUANTIFICATION
Weijie QIN (Keynote)
State Key Laboratory of Proteomics, Beijing Proteome
Research Center, Beijing Institute of Radiation Medicine,
China

15:10-15:30 G6 EFFECTIVE ANALYTICAL SUPPORT FOR
DRUG DISCOVERY PROGRAMS: HIGH
THROUGHPUT PURIFICATION AND COMPOUND
CHARACTERIZATION
Qifeng XUE
Theravance, Inc., USA



- 15:30-15:50 G7 **BIOLOGICAL TISSUE ANALYSIS USING MS IMAGES WITH MASS MICROSCOPE**
Yuki HASHI
Shimadzu Corporation, China
- 15:50-16:10 **Coffee Break**
- 16:10-16:30 G8 **FROM METAL ION DETECTION TO BIOASSAYS**
Xingyu JIANG
National Center of Nanoscience and Technology, China
- 16:30-16:50 G9 **DNA-BASED NANOASSEMBLIES FOR BIOANALYSIS**
Zhaoxiang DENG
CAS Key Laboratory of Soft Matter Chemistry, Department of Chemistry, University of Science and Technology of China, China
- 16:50-17:10 G10 **INSTRUMENT-FREE CLINICAL DIAGNOSTICS ON SLIPCHIP**
Wenbin DU
Department of Chemistry, Renmin University of China, China
- 17:10-17:30 G11 **APTAMER-BASED ASSAY FOR THROMBIN USING GOLD NANOPARTICLE TAG AND INDUCTIVELY COUPLED PLASMA MASS SPECTROMETRY DETECTION**
Qiang ZHAO
Research Center of Environmental Science and Engineering, Shanxi University, China
- 17:30-17:50 G12 **A ULTRASENSITIVE DNA DETECTION STRATEGY USING LUMINOL FUNCTIONALIZED GOLD NANOPARTICLES AS ELECTROCHEMILUMINESCENCE LABELS**
Ying CHAI
CAS Key Laboratory of Soft Matter Chemistry, Department of Chemistry, University of Science and Technology of China, China

The 14th Beijing Conference and Exhibition on Instrumental Analysis

Time: Oct. 15, 2011 AM (Saturday)

Location: Harmonious Garden Hall, 2nd Floor of the Central Garden Hotel

Topic: Proteomics, Metabolomics, Lipidomics (co-hosted by Session D&G)

Chairman: Prof. Xiaohong QIAN and Prof. Guowang XU

- | | | |
|-------------|-----|--|
| | | IS CURRENT TECHNOLOGY READY FOR COMPLETE PROTEOMICS STUDY?
Ping XU (Keynote)
State Key Laboratory of Proteomics, Beijing Proteome Research Center, Beijing Institute of Radiation Medicine, National Engineering Research Center for Protein Drugs, China |
| 08:30-08:55 | G13 | |
| | | HYPHENATED LIQUID PHASE-MASS SPECTROMETRIC TECHNIQUES FOR METABOLOMIC STUDIES OF ANTICANCER ACTIVITY OF DIETARY POLYPHENOLS. THE LONG WAY TO A GLOBAL FOODOMICS APPROACH
Alejandro CIFUENTES (Keynote)
Institute of Food Science Research (CIAL), Spain |
| 08:55-09:20 | D22 | |
| | | HIGH PERFORMANCE ISOTOPE LABELING LC-MS FOR QUANTITATIVE AND COMPREHENSIVE METABOLOME PROFILING
Liang LI (Keynote)
Department of Chemistry, University of Alberta, Canada |
| 09:20-09:45 | G14 | |
| | | DISEASE BIOMARKER DISCOVERY AND IDENTIFICATION BY USING MASS SPECTROMETRY BASED METABOLOMICS
Guowang XU
CAS Key Laboratory of Separation Science for Analytical Chemistry, National Chromatographic R &A Center, Dalian Institute of Chemical Physics, Chinese Academy of Sciences, China |
| 09:45-10:10 | D23 | |
| 10:10-10:30 | | Coffee Break |
| | | ALCOHOL DRINKING AND LIVER FUNCTION - A QUANTITATIVE PROTEOMIC STUDY OF CYP2E1 FUNCTION IN ALCOHOL METABOLISM |
| 10:30-10:55 | G15 | Rong WANG
Department of Genetics and Genomic Sciences, Mount Sinai School of Medicine, USA |



10:55-11:20 D24 HOW THOUSANDS OF LIPID SPECIES ARE IDENTIFIED AND QUANTIFIED FROM A MINIMAL AMOUNT OF SOURCE MATERIAL BY AN ELECTROSPRAY IONIZATION MASS SPECTROMETER: INTRODUCTION TO MULTI- DIMENSIONAL MASS SPECTROMETRY-BASED SHOTGUN LIPIDOMICS
Xianlin HAN (Keynote)
Diabetes and Obesity Research Center, Sanford-Burnham Medical Research Institute, USA

11:20-11:45 G16 ORGANELLE MEMBRANE PROTEOMICS REVEALS DIFFERENTIAL INFLUENCE OF MYCOBACTERIAL LIPOGLYCANS ON MACROPHAGE PHAGOSOME MATURATION AND AUTOPHAGOSOME ACCUMULATION
Wenqing SHUI (Keynote)
College of Life Sciences and Tianjin State Laboratory of Protein Science, Nankai University, China

11:45-12:10 D25 ONLINE NP/RP 2D LC-QTOF-MS FOR LIPIDOMICS ANALYSIS
Huwei LIU
Institute of Analytical Chemistry, College of Chemistry and Molecular Engineering, Peking University, China

Time: Oct. 15, 2011 PM (Saturday)

Location: Splendid Garden Hall, 2nd Floor of the Central Garden Hotel

Topic: Food Safety

Chairman: Prof. Xiaogang CHU and Dr. Perry G. WANG

13:30-14:00 G17 INTRODUCTION OF AOAC AND ITS METHOD VALIDATION
Perry G. WANG (Keynote)
Center for Food Safety and Applied Nutrition, US Food and Drug Administration, USA

14:00-14:20 G18 ADVANCE IN THE DETECTION OF VETERINARY DRUG RESIDUES IN ANIMAL-DERIVED FOOD
Jianzhong SHEN
Department of Veterinary Pharmacology and Toxicology, College of Veterinary Medicine, China Agricultural University, China

- TRACING THE SOURCE OF NEW METABOLITES OF
PARALYTIC SHELLFISH TOXINS IN SHELLFISH
Jijuan CAO (Keynote)
Liaoning Entry-exit Inspection and Quarantine Bureau, China
14:20-14:50 G19 **Aifeng LI**
Key Laboratory of Marine Environment and Ecology, Ocean
University of China
- DEVELOPMENT OF INTERNATIONAL MAXIMUM
RESIDUE LIMITS OF PESTICIDES IN FOOD
Weili SHAN
14:50-15:10 G20 Institute for the Control of Agrochemicals, Ministry of
Agriculture, China
- 15:10-15:30 **Coffee Break**
- TARGET ANALYSIS AND NON-TARGET SCREEN BY
USING HIGH RESOLUTION LC/MS
15:30-16:00 G21 **James CHANG** (Keynote)
Thermo Scientific, USA
- PREPARATION AND CERTIFICATION OF MATRIX
REFERENCE MATERIALS FOR RESIDUES ANALYSIS
16:00-16:30 G22 **Fang YANG** (Keynote)
Fujian Entry-exit Inspection and Quarantine Bureau, China
- DETERMINATION OF CHEMICAL HAZARD AND ITS
METABOLITES IN FOOD USING Q-TOF
16:30-16:50 G23 **Feng ZHANG**
Institute of Food Safety, Chinese Academy of Inspection and
Quarantine, China
- DESIGN AND EVALUATION OF INTELLECTUAL
METHODS BANK OF PESTICIDE RESIDUES IN FOOD
DETECTION
16:50-17:20 G24 **Xiaogang CHU** (Keynote)
Institute of Food Safety, Chinese Academy of Inspection and
Quarantine, China



第十四届北京分析测试学术报告会及展览会

Time: Oct. 16, 2011 AM (Sunday)

Location: Splendid Garden Hall, 2nd Floor of the Central Garden Hotel

Topic: Food Safety

Chairman: Dr. Jon W. WONG and Dr. Dunming XU

- | | | |
|-------------|-----|---|
| | | ADVANCES AND CHALLENGES IN MULTIRESIDUE
PESTICIDE ANALYSIS OF FOODS |
| 08:30-09:00 | G25 | Jon W. WONG (Keynote)
Center for Food Safety and Applied Nutrition, US Food and
Drug Administration, USA |
| | | BROAD SCREENING TECHNIQUE IN FOOD POISONING
CASE |
| 09:00-09:20 | G26 | Bing SHAO
Beijing Key Laboratory of Diagnostic and Traceability
Technologies for Food Poisoning, Beijing Center for Disease
Control & Prevention, China |
| | | NANO-PROBES BASED SENSITIVE BIOASSAY FOR
FOODBORNE PATHOGEN AND MYCOTOXIN |
| 09:20-09:40 | G27 | Zhouping WANG
State Key Laboratory of Food Science and Technology, School
of Food Science and Technology, Jiangnan University, China |
| | | LAB-ON-CHIP SYSTEM IN FISH SPECIES
AUTHENTICATION |
| 09:40-10:00 | G28 | Jin ZHANG
Agilent Technologies, Global Food Team, China |
| 10:00-10:20 | | Coffee Break |
| | | OPTOFLUIDIC LAB-ON-A-CHIP PLATFORM FOR FOOD
AND ENVIRONMENTAL APPLICATIONS |
| 10:20-10:40 | G29 | Henk LEEUWIS
LioniX BV, Netherlands |
| | | APPLICATION OF MOLECULAR IMPRINTING
TECHNIQUE IN FOOD ANALYSIS |
| 10:40-11:00 | G30 | Minli YANG
Institute of Food Safety, Chinese Academy of Inspection and
Quarantine, China |

DETERMINATION OF 23 PHTHALIC ACID
ESTERS (PAES) IN FOODSTUFF BY LIQUID
CHROMATOGRAPHY/TANDEM MASS SPECTROMETRY

11:00-11:30 G31 **Dunming XU** (Keynote)
Inspection and Quarantine Technology Center, Xiamen Entry-
Exit Inspection and Quarantine Bureau, China

11:30-11:40 **Conference Closing & Poster Awarding**

POSTER SESSION

Time: Oct. 14, 2011 PM (Friday) - Oct. 16, 2011 AM (Sunday)

Location: 2nd Floor of the Central Garden Hotel

- APTAMER- BASED PIEZOELECTRIC QUARTZ CRYSTAL BIOSENSOR FOR SARS CORONAVIRUS HELICASE
G33 Dharmatov Rahula B ALBANO, Julian A TANNER and Ying Sing FUNG
Department of Chemistry, The University of Hong Kong, Pokfulam Road, Hong Kong
- NOVEL CARBON MATERIAL AS SUBSTRATE FOR TRYPSIN IMMOBILIZATION AND HIGHLY EFFICIENT PROTEIN DIGESTION
G34 Haihong BAI, Wanjun ZHANG, Hongjun LIN, Weijie QIN, Yangjun ZHANG and Xiaohong QIAN
School of Life Science, Beijing Institute of Technology. Beijing, China
- IDENTIFICATION OF TWO NOVEL PROTEINS BY DE NOVO SEQUENCING USING HCD AND ETD SPECTRA
G35 Hao CHI; Ruixiang SUN; Bing YANG; Chun-Qing SONG; Chao LIU; Yanmei ZHAO; Wei SUN; Long MIAO; Si-Min HE; Meng-Qiu DONG
Institute of Computing Technology, Chinese Academy of Sciences, Beijing, China
- INCREASING CONCENTRATION OF SALSOLINAL AND N-METHY SALSOLINOL IN TRANSGENIC MOUSE CAUSED BY OVEREXPRESSION OF ALPHA-SYNUCLEIN
G36 Jinyan DUAN, Kefu LIU, Yulin DENG
School of Life Science and Technology, Beijing Institute of Technology, Beijing, China
- SCREENING AND VALIDATION OF UNKNOWN ADDITIVES IN RED WINES BY THE COMBINATION OF LC-MS AND GC-MS
G37 Feng FENG, Yansheng ZHAO, Yun LING, Li SUN, Feng ZHANG, Minli YANG, Xiaogang CHU
Institute of Food Safety, Chinese Academy of Inspection and Quarantine, Beijing, China
- INVESTIGATION OF INTERACTIONS BETWEEN TOLL LIKE RECEPTOR4 AND MORPHINE USING MOBILITY SHIFT METHODS
G38 Huiqing FU, Zhe GUAN, Donghua LV, Yongpeng FU, Teng MA, Yulin DENG
School of Life, Beijing Institute of technology, Beijing, China

- G39 THE INITIAL ADHERENT OF BONE MARROW MESENCHYMAL STEM CELL TO SILK FIBROIN-BASED MATERIALS
Chenglian HAN, Dongxu ZHAO, Nan SUN, Dabao WANG
School of Life Sciences, Beijing Institute of Technology, Beijing, China
- G40 STUDY OF PROTECTIVE EFFECTS OF DAI MEDICINE BGYH ON IMMUNOLOGICAL LIVER INJURY
Pingping HE, Weiwei MENG, Congcong SONG, Yan CHEN, Yulin DENG and Rongji DAI
School of Life Science, Beijing Institute of Technology, Beijing, China
- G41 STUDY ON SEQUENTIAL INJECTION COUPLED WITH SPECTROPHOTOMETRY FOR THE DETECTION OF α -AMYLASE ACTIVITY
Wenwen JIANG, Shihua FAN
Research Center for Analytical Sciences, Northeastern University, Shenyang, China
- G42 REDUCED INSULIN ACTIVITY DURING THE PROGRESSION OF TYPE 2 DIABETES IN SD RATS
Ullah KALEEM, Bingjie XIE, Ruifang GUAN, Long ZHAO, Yulin DENG
School of Life Sciences, Beijing Institute of Technology, Beijing, China
- G43 A NEW MODEL FOR CULTURING MAMMALIAN OOCYTE AND EARLY EMBRYO IN SIMULATED MICROGRAVITY CONDITION
Run-hong LEI, Huan SUN, Xue LIANG, Kan YIN, Yan-jie LIU, Xin TAN
Institute of Space Biology and Biomedical Engineering, School of Life Science, Beijing Institute of Technology, Beijing, China
- G44 STUDY ON A NEW TYPE OF MICROFLUIDIC CHIPS FOR EXTRACTION
Dalei LI, Bo TANG, Wenbin GU, Lei GUO, Qingchao MENG, Yulin DENG
School of Life Science, Beijing Institute of Technology, Beijing, China
- G45 EVALUATION OF OFFGEL ELECTROPHORESIS ON THE PRE-FRACTIONATION OF PEPTIDES MIXTURE FROM SECRETOME OF HUMAN LIVER CANCER CELLS
XianYu LI, WanTao YING, Cheng MA, XiaoHong QIAN
The College of Life Science and Bio-engineering, Beijing University of Technology, Beijing, China



MOLECULAR DOCKING TO FIND NEW MAO-A INHIBITOR WITH AUTODOCK

- G46 Yan LI, Lingbin MENG, Zhongqiu TENG, Rongji DAI and Yulin DENG
School of Life Science, Beijing Institute of Technology. Beijing, China

PROTECTIVE EFFECT OF PUERARIN ON β -AMYLOID-INDUCED NEUROTOXICITY IN RAT HIPPOCAMPAL NEURONS

- G47 Fankai LIN, Fei CAI and Gang WU
School of Life Science, Beijing Institute of Technology. Beijing, China

PROTECTIVE EFFECTS OF 2-HPA ON H_2O_2 -INDUCED INJURY IN HIPPOCAMPUS NEURONS

- G48 Fankai LIN, Jinyuan QIAO, Dihao WANG
School of Life Science, Beijing Institute of Technology. Beijing, China

DUAL SIGNAL AMPLIFICATION OF ENZYME-LINKED IMMUNOSORBENT ASSAY

- G49 Hongjun LIN, Aihong ZHANG, Yangjun ZHANG, Xiaohong QIAN
State Key Laboratory of Proteomics, Beijing Proteome Research Center, Beijing, China

PQUANT: A SUITE OF ALGORITHMS FOR MASS SPECTROMETRY-BASED QUANTITATIVE PROTEOMICS

- G50 Chao LIU; Chun-Qing SONG; Zuo-Fei YUAN; Hao CHI; Yan FU; Le-Heng WANG; Sheng-Bo FAN; Rui-Xiang SUN; Meng-Qiu DONG; Si-Min HE
Institute of Computing Technology, Chinese Academy of Sciences, Beijing, China

IN VIVO DETERMINATION OF METABOLITES FROM DOPAMINE AND SALSOLINOL IN MICRODIALYSATE

- G51 Jianqing LU, Xinyi FU, Yaojie LI, Jieying YAN, Yulin DENG
School of Life Science, Beijing Institute of Technology. Beijing, China

COMPLEMENTATION OF LECTIN AND HILIC TECHNIQUES IN ENRICHMENT OF HUMAN PLASMA GLYCOPROTEINS

- G52 Cheng MA, Wantao YING, Huanhuan HAN, Xianyu LI, Wei TONG, Xiaohong QIAN
Beijing Institute of Technology, Beijing, China

- G53 COUPLING GAS-PHASE ELECTROPHORETIC MOBILITY MOLECULAR ANALYZER WITH ATOMIC EMISSION SPECTROSCOPY FOR STUDY OF METAL-PROTEIN BINDING IN MILK
Tongmei MA, Wenfeng ZHAO, Sze Kwan LOK, Ying Sing FUNG
School of Chemistry and Chemical Engineering, South China University of Technology, Guangzhou, China
- G54 THE SEPARATION OF BASIC PROTEINS BY CAPILLARY ELECTROPHORESIS USING A NEW COATING
Yan MAN, Xuefei LV, Yulin DENG
School of Life Science, Beijing Institute of Technology, Beijing, China
- G55 SCREENING OF APTAMER FOR VITELLOGENIN BY MAGNETIC SELEX IN VITRO
Yan MAN, Chenmu WANG, Xu HAN, Caiting YU, Yulin DENG, Xuefei LV
School of Life Science, Beijing Institute of Technology, Beijing, China
- G56 NEGATIVE ELECTRET AS TRANSDERMAL PENETRATION ENHANCER IN TOPICAL FORMULATIONS OF DRAGON'S BLOOD
Lingbin MENG, Yan LI, Zhongqiu TENG, Yang SONG, Weiwei MENG and Yulin DENG
School of Life Science, Beijing Institute of Technology, Beijing, China
- G57 PREPARATION OF A NEW TYPE OF GLYCOPOLYMER BRUSHES GRAFTED OPEN-TUBULAR CAPILLARY COLUMN FOR POLAR COMPOUND SEPARATION BY ATOM TRANSFER RADICAL POLYMERIZATION (ATRP)
Yiting PAN, Chao FAN, Weijie QIN, Yangjun ZHANG, Yun CAI, Xiaohong QIAN
School of Life Science, Beijing Institute of Technology, Beijing, China
- G58 APPLICATION OF THE CANCER/TESTIS ANTIGENS CHIP ONTO SCREENING BIOMARKERS OF LUNG CANCER
Qiang SHAN, Xiaomin LOU, Ju ZHANG, Huiying SUN, Xu ZHU, Siqi LIU and Ningzhi XU
Beijing Institute of Genomics, Chinese Academy of Sciences, Beijing, China
- G59 ANALYSIS OF IMPURITIES IN OVER-THE-COUNTER MELATONIN BY LC/TOF-MS
Sharanya REDDY, Shida SHEN, Eugene DAVIDOV, Adam PATKIN, Li Qun ZHU
PerkinElmer, Mass Spectrometry Systems, Shelton, USA

- DERIVATIZATION OF GLYCANS FOR MALDI-TOF-MS AND ESI-MS ANALYSIS
 Wei TONG, Weijie QIN, Huanhuan HAN, Xin WANG, Cheng MA, Yangjun ZHANG, Xiaohong QIAN
 G60 State Key Laboratory of Proteomics, Beijing Proteome Research Center, Beijing Institute of Radiation Medicine, Beijing, China
- THE APPLICATION OF HOLLOW FIBER IN THE TREATMENT OF PLASMA SAMPLE
 G61 Wan WANG
 Tianjin Bonna-Agela Technology Co., Ltd., Tianjin, China
- A EFFICIENT METHOD FOR LABELING PEPTIDES WITH METAL COMPLEX
 Xin WANG, Xueying WANG, Hongjun LIN, Wei TONG, Yangjun ZHANG, Xiaohong QIAN
 G62 State Key Laboratory of Proteomics, Beijing Proteome Research Center, Beijing Institute of Radiation Medicine, Beijing, China
- QUANTITATIVE PROTEOMICS REVEALS THE DOWNSTREAM CONSEQUENCES OF MTORC1 ACTIVATION IN MOUSE EMBRYONIC FIBROBLASTS
 G63 Zhaohui WANG, Xianwei CHEN, Quanhui WANG, Ping CUI, Yuan WANG, Jun ZHANG, Hongbing ZHANG, Siqi LIU
 Beijing Institute of Genomics, CAS, Beijing, China
- ON CHIP PROTEIN ISOELECTRIC FOCUSING USING PHOTOIMMOBILIZED pH GRADIENT
 G64 Lin XIA, Xin WU, FengMing LIN, Kunjie HUANG, Jianshe WANG, Yulin DENG, Lina GENG
 School of Life Science, Beijing Institute of Technology, Beijing, China
- HIGH CONCENTRATION OF GLUCOSE LEAD TO MITOCHONDRIAL DAMAGE CAUSED THE APOPTOSIS OF SH-SY5Y CELL
 G65 Bingjie XIE, Zhengang SHAN, Fankai LIN, Ullah KALEEM, Lei PENG, Ruifang GUAN, Yulin DENG
 School of Life Science, Beijing Institute of Technology, Beijing, China
- GLOBAL PROTEOMIC PROFILING IN COMBINATION WITH LC-MS/MS TO IDENTIFY PERIPHERAL PD-RELATED PROTEINS
 G66 Yan XIONG, Zhensong ZHANG, Ming KE, Yujuan LI, Yulin DENG
 School of Life Science, Beijing Institute of Technology, Beijing, China

- G67 INTEGRATION OF ISOELECTRIC FOCUSING AND ZONE ELECTROPHORESIS FOR TWO DIMENSIONAL MICROFLUIDIC CHIP ELECTROPHORESIS SEPARATION OF ACTIVE PROTEINS
Shiyong YU, Ni HOU, Weiyi GUAN, Terigele, Ge ZHAN, Yulin DENG, Lina GENG
School of Life Science, Beijing Institute of Technology, Beijing, China
- G68 DETECTION AND IDENTIFICATION OF CO-ELUTED PRECURSORS IN HIGH-RESOLUTION MASS SPECTRA
Zuofei YUAN, Chao LIU, Haipeng WANG, Yan FU, Ruixiang SUN and Simin HE
Institute of Computing Technology of Chinese Academy of Sciences, Beijing, China
- G69 DRIED BLOOD SPOT ANALYSIS - CONSISTENT SPOT HOMOGENEITY WITH VARIABLE SPOT PUNCH LOCATIONS
Ritu ARORA, William C. HUDSON, Ben YONG, Paul BOGUSZEWSKI and Chen-Hao ZHAI
Agilent Technologies (Shanghai) Co., Ltd., Shanghai, China
- G70 QUANTITATIVE ANALYSIS OF GLYCATION PATTERNS IN HUMAN SERUM ALBUMIN USING $^{18}\text{O}/^{16}\text{O}$ -LABELING AND HPLC-ESI MS
Mei ZHANG, Luna WANG, Xiaopeng CHENG, Wen LI, Qing HONG and Yulin DENG
School of Life Science, Beijing Institute of Technology, Beijing, China
- G71 THE POSSIBLE RELATIONSHIP BETWEEN ALPHA-SYNUCLEIN AND CELL DEATH IN PARKINSON'S DISEASE
Yanyan ZHANG, Rina WU, Zezhen ZHANG, Yulin DENG
School of Life Science, Beijing Institute of Technology, Beijing, China
- G72 MAGNETIC MOLECULARLY IMPRINTED POLYMERS BASED SAMPLE PRECONCENTRATION PROCEDURE WITH CAPILLARY ELECTROPHORESIS FOR ANTIBIOTICS ANALYSIS IN MILK
W. F. ZHAO; T. M. MA; H. WU; S. QUAN; Y. S. FUNG
Department of Chemistry, Xuzhou Normal University, Xuzhou, China



DEVELOPMENT HIGH - PERFORMANCE LIQUID CHROMATOGRAPHY- TANDEM MASS SPECTROMETRY METHOD FOR 27 KINDS OF FOOD ADDITIVES AND ILLEGAL ADDITIVES IN VEGETABLE OIL AND SEASONING OIL

- G73 Ya CAO, Li SUN, Yun LING, Yan-sheng ZHAO, Hui GAO, Feng FENG, Xiaogang CHU
Institute of Food Safety, Chinese Academy of Inspection and Quarantine, Beijing, China

A RAPID AND ACCURATE DETECTION METHOD OF PONCEAU 4R IN SOFT DRINKS BY HPLC-MS/MS

- G74 Hui GAO
Institute of Food Safety, Chinese Academy of Inspection and Quarantine, Beijing, China

STUDY ON SCREENING METHOD OF FOOD ADDITIVES BY MULTI-MASS SPECTROMETRY ANALYSIS IN PUFFING FOOD OF PRAWN CRACKERS

- G75 YanSheng ZHAO, WeiGang CUI, Feng FENG, MinLi YANG, Feng ZHANG, XiaoGang CHU, Ying DONG
Chinese Academy of Inspection and Quarantine, Beijing, China

SCHEDULE OF SESSIONS

H. ENVIRONMENTAL ANALYSIS

CHAIRMAN: Prof. Lianghong GUO

ORAL LECTURES

Time: Oct. 14, 2011 PM (Friday)

Location: Permanent Garden Hall, Central Garden Hotel

Topic: Analytical Methods

Chairman: Prof. Guibin JIANG and Prof. Wunmi A. SADIK

13:30-13:35

Opening Address

ANALYSIS OF HALOQUINONES FROM THE SOURCE TO TAP WATER

Xing-Fang LI (Keynote)

13:35-14:05

H2

Division of Analytical and Environmental Toxicology,
Department of Laboratory Medicine and Pathology, University
of Alberta, Canada

HIGHLY-SENSITIVE DETECTION OF RESPIRATORY
QUINONES IN SOIL AND GROUNDWATER

14:05-14:35

H3

Arata KATAYAMA (Keynote)

EcoTopia Science Institute, Nagoya University, Japan

FACILE ON-SITE DETECTION OF ORGANIC
POLLUTANTS IN WATER USING SURFACE-ENHANCED
RAMAN SPECTROSCOPY

14:35-15:05

H4

Yitao LONG (Keynote)

Department of Chemistry, East China University of Science
and Technology, China

15:05-15:25

Coffee Break

RAPID ON-SITE WATER SAMPLING WITH ROTATED
SPME DEVICE

Gangfeng OUYANG (Invited)

15:25-15:45

H5

KLGHEI of Environment and Energy Chemistry, School of
Chemistry and Chemical Engineering, Sun Yat-sen University,
China



15:45-16:05 H6 FLUORESCENT CHEMOSENSORS FOR
PYROPHOSPHATE AND THIOLS BASED ON
AGGREGATION INDUCED EMISSION ENHANCEMENT
Aijun TONG (Invited)
Department of Chemistry, Tsinghua University, China

16:05-16:25 H7 STIR BAR SORPTIVE EXTRACTION AND ITS
APPLICATION IN ENVIRONMENTAL ANALYSIS
Bin HU (Invited)
Key Laboratory of Analytical Chemistry for Biology and
Medicine (Ministry of Education), Department of Chemistry,
Wuhan University, China

16:30-17:30 **Poster Session I (H28-H41)**

Time: Oct. 15, 2011 AM (Saturday)

Location: Permanent Garden Hall, Central Garden Hotel

Topic: Analytical Methods

Chairman: Prof. Arata KATAYAMA and Prof. X. Chris LE

8:30-9:00 H8 SPECIATION STUDIES OF ARSENIC
BIOTRANSFORMATION
X. Chris LE (Keynote)
Department of Laboratory Medicine and Pathology, University
of Alberta, Canada

9:00-9:30 H9 METAL-ORGANIC FRAMEWORKS FOR
ENVIRONMENTAL ANALYSIS
Xiu-Ping YAN (Keynote)
Research Center for Analytical Sciences, College of Chemistry,
Nankai University, China

9:30-10:00 H10 NECESSITY OF THE MULTI-ELEMENT SIMULTANEOUS
ANALYSIS IN THE NOURISHMENT MANAGEMENT OF
THE MEAL
Naomi KATAYAMA (Keynote)
Department of Food Science and Nutrition, Faculty of
Human Life and Environmental Sciences, Nagoya Women's
University, Japan

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

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| 10:20-10:40 | H11 | <p>DETERMINATION OF HEXABROMOCYCLODODECANE USING ϵGC-qMS BASED ON ITS DERIVATIZATION WITH LITHIUM DIISOPROPYLAMIDE</p> <p>Qiuquan WANG (Invited)</p> <p>Department of Chemistry and the Key Laboratory of Analytical Sciences, College of Chemistry and Chemical Engineering, Xiamen University, China</p> |
| 10:40-11:00 | H12 | <p>SILICALITE-1 FILMS FOR SOLID-PHASE MICROEXTRACTION</p> <p>Dongqiang ZHU (Invited)</p> <p>State Key Laboratory of Pollution Control and Resource Reuse/School of the Environment, Nanjing University, China</p> |
| 11:00-11:20 | H13 | <p>REAL-TIME MONITORING OF REACTIVE OXYGEN SPECIES (ROS) BASED ON INORGANIC-ORGANIC NANOCOMPOSITES</p> <p>Yang TIAN (Invited)</p> <p>Department of Chemistry, Tongji University, China</p> |
| 11:20-11:40 | H14 | <p>APPLICATION OF SYNCHROTRON-BASED TECHNIQUES IN ARSENIC ANALYSIS IN ENVIRONMENTAL SAMPLES</p> <p>Chuanyong JING (Invited)</p> <p>Research Center of Eco-environmental Sciences, Chinese Academy of Sciences, China</p> |

11:40-13:00 **Poster Session II (H42-H56)**

Time: Oct. 15, 2011 PM (Saturday)

Location: Permanent Garden Hall, Central Garden Hotel

Topic: Environmental Processes

Chairman: Prof. Paul H. WINE and Prof. Kazuichi HAYAKAWA

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|-------------|-----|---|
| 13:30-14:00 | H15 | <p>INVESTIGATING ENVIRONMENTAL PROCESSES CONTROLLING THE FATE AND TRANSPORT OF AGRICULTURAL EMISSIONS TO THE ATMOSPHERE</p> <p>Laura L. MCCONNELL (Keynote)</p> <p>United States Department of Agriculture, Agricultural Research Service, USA</p> |
|-------------|-----|---|



- 14:00-14:30 H16 CHANGE OF AIR POLLUTION IN JAPAN DURING LAST 14 YEARS FROM VIEW POINT OF POLYCYCLIC AROMATIC HYDROCARBONS AND NITROPOLYCYCLIC AROMATIC HYDROCARBONS
Kazuichi HAYAKAWA (Keynote)
Institute of Medical, Pharmaceutical and Health Sciences, Kanazawa University, Japan
- 14:30-15:00 H17 LABORATORY INVESTIGATIONS OF ATMOSPHERIC CHEMICAL KINETICS AND PHOTOCHEMISTRY
Paul WINE (Keynote)
School of Chemistry & Biochemistry, School of Earth & Atmospheric Sciences, Georgia Institute of Technology, USA
- 15:00-15:20 H18 MEASUREMENTS OF ATMOSPHERIC CARBON TETRACHLORIDE (CCl_4), PEROXYACETYL NITRATE (PAN) AND PEROXYPROPIONYL NITRATE (PPN) BY GC-ECD METHOD
Yujing MU (Invited)
Research Center for Eco-Environmental Sciences, Chinese Academy of Sciences, China
- 15:20-15:40 **Coffee Break**
- 15:40-16:10 H19 FACILITATED TRANSPORT OF HYDROPHOBIC ORGANIC CONTAMINANTS BY FULLERENE NANOPARTICLES (NC_{60}): ENVIRONMENTAL IMPLICATIONS
Wei CHEN (Keynote)
College of Environmental Science and Engineering, Nankai University, China
- 16:10-16:40 H20 NOVEL ONE-CARBON REMOVAL MECHANISMS TO DEGRADE POLYFLUORINATED CHEMICALS IN THE ENVIRONMENT
Ning WANG (Keynote)
E.I. du Pont de Nemours & Company, Inc, USA
- 16:40-17:00 H21 EFFECT OF BIOCHAR APPLICATION ON BIOACCUMULATION OF PAH BY LACTUCA SATUVA L. GROWN IN FIELD CONTAMINATED SOIL
Sardar KHAN (Invited)
Institute of Urban Environment, Chinese Academy of Sciences, China
- 17:00-18:00 **Poster Session III (H57-H70)**

The 14th Beijing Conference and Exhibition on Instrumental Analysis

Time: Oct. 16, 2011 AM (Sunday)

Location: Permanent Garden Hall, Central Garden Hotel

Topic: Biological Implications

Chairman: Prof. Jean CADET and Prof. Shen HU

8:30-9:00	H22	HPLC-ESI-MS/MS MEASUREMENT OF THE FORMATION AND REPAIR OF OXIDATIVELY GENERATED AND PHOTO-INDUCED DAMAGE TO DNA IN CELLS AND SKIN Jean CADET (Keynote) Laboratoire “Le’sions des Acides Nucle’iques”, Institut Nanosciences et Cryoge’nie, France
9:00-9:30	H23	METABOLOMICS FOR INVESTIGATING TCDD TOXICITY AND ASSOCIATED DISEASES: A NEW BIOANALYTICAL TECHNIQUE FOR THE OLD ENVIRONMENTAL TOXICANT Zongwei CAI (Keynote) Department of Chemistry, Hong Kong Baptist University, China
9:30-10:00	H24	HEAD AND NECK CANCER PROTEOMICS Shen HU (Keynote) School of Dentistry, University of California at Los Angeles, USA
10:00-10:20		Coffee Break
10:20-10:50	H25	MASS SPECTROMETRY FOR ASSESSING THE FORMATION, REPAIR, REPLICATION AND TRANSCRIPTIONAL MUTAGENESIS OF OXIDATIVELY INDUCED BULKY DNA LESIONS Yinsheng WANG (Keynote) Department of Chemistry and Environmental Toxicology Graduate Program, University of California at Riverside, USA
10:50-11:10	H26	PARENTAL TRANSFER OF PBDES AND THYROID ENDOCRINE DISRUPTION IN ZEBRAFISH Bingsheng ZHOU (Invited) Institute of Hydrobiology, Chinese Academy of Sciences, China



第十四届北京分析测试学术报告会及展览会

11:10-11:30 H27 ORGANOCHLORINE PESTICIDES' EXPOSURE,
SERUM GLOBAL DNA METHYLATION AND
HEPATOCELLULAR CARCINOMA IN A XIAMEN
COHOR
Heqing SHEN (Invited)
Institute of Urban Environment, Chinese Academy of
Sciences, China

11:30-11:35 **CLOSING REMARKS**

POSTER SESSION

Time: Oct. 14, 2011 PM (Friday) and Oct. 15, 2011 (Saturday)

Location: 2nd Floor of the Central Garden Hotel

- H28 PCDD/Fs ASSESSMENT IN AN ITALIAN KAOLINIC ROCK
Ettore GUERRIERO¹, Silvia MOSCA¹, Mauro ROTATORI¹, Giuseppe BONIFAZI², Vincenzo GIANCONTIERI² and Andrea MANNI²
1 CNR – Institute for Atmospheric Pollution Via Salaria, Km 29,300, 00015 Monterotondo Scalo, Rome
2 Dept. ICMA (Chemical, Materials and Environmental Engineering), University of Rome “La Sapienza”, Via Eudossiana 18, 00184 Rome
- H29 A NEW ANALYTICAL APPROACH FOR FINE AND ULTRAFINE PARTICULATE SOLIDS POPULATION ANALYSIS BASED ON A FRACTAL LOGICS
Giuseppe BONIFAZI¹, Vincenzo GIANCONTIERI¹, Andrea MANNI², Nicoletta PICONE¹
¹Dipartimento di Ingegneria Chimica Materiali Ambiente, Sapienza–Università di Roma. Rome 00184, Italy
²Spectra 2000 Srl. Rome 00133, Italy
- H30 SPECIES DISTRIBUTION AND POTENTIAL BIOAVAILABILITY OF EXOGENOUS Hg (II) IN VEGETABLE-GROWING SOILS INVESTIGATED WITH A MODIFIED TESSIER SCHEME COUPLED WITH ISOTOPIC LABELING TECHNIQUE
Zhiyong HUANG, Deping QIN, Xiangcheng ZENG and Jian LI
College of Bioengineering, Jimei University, Xiamen, 361021, P.R. China
- H31 IN SITU IMMOBILIZATION OF PB AND CD IN SOILS INVESTIGATED WITH A MODIFIED TESSIER SCHEME COUPLED WITH STABLE ISOTOPIC LABELING TECHNIQUE
Xiangcheng ZENG, Jian LI and Zhiyong HUANG
College of Bioengineering, Jimei University, Xiamen, 361021, P.R. China

PRECONCENTRATION OF POLYCYCLIC AROMATIC HYDROCARBONS IN WATER SAMPLES BY TEMPERATURE-CONTROLLED IONIC LIQUID DISPERSIVE LIQUID-PHASE MICROEXTRACTION

Qingxiang ZHOU^{1,2}, Yuanyuan GAO², Junping XIAO³

H32 ¹State Laboratory of Petroleum Resource and Prospecting, College of Geosciences, China University of Petroleum Beijing, Beijing 102249, China

²School of Chemistry and Environmental Sciences, Henan Normal University, Xinxiang 453007, China

³Department of Chemistry, University of Science and Technology Beijing, Beijing 100083, China

HEAVY METAL CONTENTS IN SHELLFISHES AND FOOD SAFETY ASSESSMENT

H33 Jian LI and Zhiyong HUANG

College of Bioengineering, Jimei University, Xiamen 361021, China

THE DETERMINATION OF N-NITROSAMINES IN WATER BY SPE-GC/MS

H34 Wan WANG

Tianjin Bonna-Agela Technology Co., Ltd., Tianjin 300462, China

TOF-SIMS CHARACTERIZATION OF STORED CHILI IN RURAL HOUSEHOLD OF ENDEMIC FLUOROSIS AREA IN ZHIJIN COUNTY, GUIZHOU, CHINA

H35

Yanci LIANG, Handong LIANG and Sven KAYSER

TOF-SIMS CHARACTERIZATION OF INDOOR ATMOSPHERIC PARTICULATE OF ENDEMIC FLUOROSIS AREA IN ZHIJIN COUNTY, GUIZHOU, CHINA

Handong LIANG¹, Yanci LIANG^{2,4}, Sven KAYSER³

H36 ¹ State Key Laboratory of Coal Resources & Safe Mining, China University of Mining & Technology. Beijing 100083, China

² School of Chemical & Environmental Engineering, China University of Mining & Technology. Beijing 100083, China

³ Ion-TOF GmbH, Heisenbergstr.15, Münster 48149, Germany

⁴ Division of Environment, Hong Kong University of Science and Technology. Clear Water Bay, Hong Kong, China

MEASUREMENT OF ATMOSPHERIC NITROGEN OXIDES BY CAVITY ENHANCED ABSORPTION SPECTROSCOPY

Tongmei MA^{1,2,*}, Qidan CHEN^{2,3}, Lihua TIAN¹, Ling DANG¹, Ying Sing FUNG^{2,*}

H37 ¹School of Chemistry and Chemical Engineering, South China University of Technology, 381 Wushan Road, Tianhe District, Guangzhou, P. R. China, 510640

²Department of Chemistry, The University of Hong Kong, Pokfulam Road, Hong Kong SAR, P. R. China

³Department of Chemistry and Pharmacy, Zhuhai College, Jilin University, Zhuhai, P. R. China

ESTIMATION AND CHARACTERIZATION OF PCDD/FS IN FLY ASH FROM SMELTING PROCESS OF COPPER METALLURGY

Zhiqiang NIE, Minghui ZHENG, Wenbin LIU, Guorui LIU and Bing ZHANG

H38 State Key Laboratory of Environmental Chemistry and Ecotoxicology, Research Center for Eco-Environmental Sciences, Chinese Academy of Sciences, 100085, Beijing

EDCAPPR: A MULTI-FUNCTIONAL SOFTWARE TOOL DEVELOPED FOR COMPUTER-BASED ACTIVITY ESTIMATION

Aiqian ZHANG^{1,2}, Zhongsheng YI², Jianjie FU¹, Qunfang ZHOU¹, Yuan LIN^{1,2}

H39 ¹State Key Laboratory of Environmental Chemistry and Ecotoxicology, Research Center for Eco-Environmental Sciences, Chinese Academy of Sciences, Beijing 100085, China

²School of the Environment, Nanjing University, Nanjing 210093, China

OCCUPATIONAL EXPOSURE TO PERFLUORINATED COMPOUNDS (PFCS) AT PERFLUORO-CHEMICAL PLANTS IN CHINA

Jianjie FU, Yawei WANG, Aiqian ZHANG, Yuanyuan PAN and Guibin JIANG

H40 State Key Laboratory of Environmental Chemistry and Ecotoxicology, Research Center for Eco-Environmental Sciences, Chinese Academy of Sciences, Beijing 100085, China

CATALYTIC DEGRADATION OF MC-LR IN AQUEOUS SOLUTION USING BENTONITE SUPPORTED FE/PD NANOPARTICLES: CHARACTERIZATIONS AND KINETICS

H41 Ying GAO, Zhengxian CHEN, Feifeng WANG and Zuliang CHEN
School of Chemistry and Materials Science, Fujian Normal University, Fuzhou 350007, Fujian Province, China



- H42 DETERMINING ENDOCRINE DISRUPTING HORMONES IN DRINKING WATER AND WASTEWATER UTILIZING AUTOMATED SOLID PHASE EXTRACTION
Robert JOHNSON
Horizon Technology Inc., 45 Northwestern Drive, Salem, NH 03079
- H43 INTRODUCING A NOVEL NEW TECHNOLOGY FOR FAST AND ACCURATE EXTRACTION OF POPS AND SEMI-VOLATILE ORGANIC CONTAMINANTS IN EXTREMELY DIRTY WATER SAMPLES
Robert JOHNSON
Horizon Technology Inc., 45 Northwestern Drive, Salem, NH 03079
- H44 STUDY ON SEQUENTIAL INJECTION COUPLED WITH CHEMILUMINESCENCE FOR THE DETECTION OF TRACE AMOUNT OF CYANIDE
Yueju LIU, Tianhui HU and Shihua FAN
Research Center for Analytical Sciences, Northeastern University, Shenyang 110819, China
- H45 A PRELIMINARY STUDY ON SPECTROFLUORIMETRIC METHOD FOR THE DETERMINATION OF MICROBIAL ACTIVITY IN ENVIRONMENTAL SAMPLES
Jiajia WANG, Jin ZHANG and Shihua FAN
Research Center for Analytical Sciences, Northeastern University, Shenyang 110004, China
- H46 COLORIMETRIC DETECTION OF COPPER IN TAP WATERE WITHIN THE SYNTHESIS OF SILVER NANOPARTICLES
Yurong MA, Hongyun NIU, Xiaole ZHANG and Yaqi CAI
State Key Laboratory of Environmental Chemistry and Ecotoxicology, Research Center for Eco-Environmental Science, Chinese Academy of Sciences, Beijing, China, 100085
- H47 ULTRASENSITIVE DETERMINATION OF MERCURY IN HUMAN SALIVA BY AFS BASED ON SOLIDIFIED FLOATING ORGANIC DROP EXTRACTION
Chungang YUAN, Jincong WANG and Yi JIN
School of Environmental Science & Engineering, North China Electric Power University, Baoding 071003, Hebei Province, P. R. China.

- ANALYSIS OF SILVER NANOPARTICLES IN EXPOSED CELLS
BY CLOUD POINT EXTRACTION COUPLED WITH ICP-MS
Sujuan YU, Jingbo CHAO, Jia SUN and Jingfu LIU
H48 State Key Laboratory of Environmental Chemistry and Ecotoxicology,
Research Center for Eco-Environmental Sciences, Chinese Academy of
Science, P. O. Box 2871, Beijing 100085, China
- SELECTIVE DETERMINATION OF MICROCYSTIN-LR BASED ON
PROTEASOMAL TRYPSIN-LIKE ACTIVITY INHIBITION
Xiaoshen LU¹, Yong LU², Meng WANG², Xiaohuai WU², Xinyue GUO¹,
Guoqing SHI^{1*}
H49 ¹Department of Biological Science and Engineering, School of Chemical
and Biological Engineering, University of Science and Technology Beijing,
Beijing, 100083
²Beijing Municipal Center for Food Safety Monitoring, Beijing, 100041
- DETECTION OF PERSISTENT TOXIC SUBSTANCES BY SURFACE-
ENHANCED RAMAN SPECTROSCOPY
Yongchao LAI and Jinhua ZHAN
H50 Key Laboratory for Colloid & Interface Chemistry of Education Ministry,
Department of Chemistry, Shandong University, Jinan 250100
- DEGRADATION OF AMOXICILLIN USING BENTONITE SUPPORTED
NANOSCALE ZERO-VALENT IRON
Xiulan WENG, Zhengxian CHEN, Shen LIN and Zuliang CHEN
H51 ¹School of Chemistry and Materials Science, Fujian Normal University,
Fuzhou, 350007;
²Fujian Key Laboratory of Polymer Materials, Fuzhou, 350007
- PERFLUORINATED COMPOUNDS IN SEDIMENTS OF THE HAIHE
RIVER, CHINA
Xiuli ZHAO, Xinghui XIA, Zhineng DAI and Shangwei ZHANG
H52 State Key Joint Laboratory of Environmental Simulation and Pollution
Control, School of Environment, Beijing Normal University, Beijing
100875, China
- DEVELOPMENT OF A UPLC/MS/MS METHOD FOR QUANTITATION
of ACROLEIN-DNA ADDUCTS IN LUNG EPITHELIAL CARCINOMA
A549 CELLS
Ruichuan YIN and Hailin WANG
H53 State Key Laboratory of Environmental Chemistry and Ecotoxicology,
Research Centre for Eco-Environmental Sciences, Chinese Academy of
Sciences, Beijing, 100085, China

EFFECTIVE ADSORPTION OF DISSOLVED ORGANIC MATTER BY
AN ANION EXCHANGE

Haiou SONG^{1,2,3}, Yu HUANG^{1,2,3}, Aimin LI^{1,2,3,*}

H54 ¹ State Key Laboratory of Pollution Control and Resource Reuse, School of
the Environment, Nanjing University, Nanjing, 210046, China;

² National Engineering Research Center for Organic Pollution Control and
Resources Reuse, Nanjing, 210046, China;

³ S. E.P. E. C. for Organic Chemical Industrial Waste Water Disposal and
Resources Reuse, Nanjing, 210046, China;

PREPARATION OF $\text{Fe}_3\text{O}_4@\text{MSiO}_2$ FOR ENRICHMENT AND
QUANTITATIVE ANALYSIS OF MICROCYSTIN-LR IN WATER BY
MATRIX-ASSISTED LASER DESORPTION/IONIZATION TIME-OF-
FLIGHT MASS SPECTROMETRY

H55 Huanqian LIU¹, Xiaohui LU¹, Xiaomin YAN¹, Chunhui DENG²

¹Center for Analysis and Measurement, Fudan University, Shanghai 200433,
China

²Department of Chemistry, Fudan University, Shanghai 200433, China

DIFFERENTIATION OF CLOSELY RELATED VIRULENT BACTERIA
BY THERMOCHEMOLYSIS/METHYLATION AND GC-MS

Dan LI¹, Teri M. BILLS², Brian C. HOLT³, Richard A. ROBISON², H.
Dennis TOLLEY³ and Milton L. LEE¹

H56 ¹Department of Chemistry and Biochemistry, Brigham Young University,
Provo, UT, 84602, USA

²Department of Microbiology and Molecular Biology, Brigham Young
University, Provo, UT, 84602, USA

³Department of Statistics, Brigham Young University, Provo, UT, 84602,
USA

COMPREHENSIVE TWO-DIMENSIONAL SEPARATION OF
ALKYLPHENOL ETHOXYLATES EMPLOYING HYDROPHILIC
INTERACTION CHROMATOGRAPHY COUPLED WITH ION
MOBILITY-MASS SPECTROMETRY

H57 Qiang MA^{1,2} and Lianghong GUO¹

¹ State Key Laboratory of Environmental Chemistry and Ecotoxicology,
Research Center for Eco-Environmental Sciences, Chinese Academy of
Sciences, Beijing 100085, China

² Chinese Academy of Inspection and Quarantine, Beijing 100123, China

ONE-POT FABRICATION OF PHENYLBORONIC ACID FUNCTIONALIZED SILICA HYBRID MONOLITHIC CAPILLARY FOR SPECIFIC CAPTURE OF CIS-DIOL BIOMOLECULES

Hongrui XU¹, Limin YANG¹, Qiuquan WANG*^{1,2}

H58 ¹ Department of Chemistry and the Key Laboratory of Analytical Sciences, College of Chemistry and Chemical Engineering, Xiamen University, Xiamen, P. R. China;

² State Key Laboratory of Marine Environmental Science, Xiamen University, Xiamen, P. R. China

SIMULTANEOUS DETERMINATION OF PERFLUORINATED COMPOUNDS IN COASTAL SEAWATER BY LIQUID CHROMATOGRAPHY-ION TRAP MASS SPECTROMETRY

Xin LI¹, Junhui CHEN¹, Hongyan CHENG¹, Qian SHI¹, Fenghua JIANG¹, Li ZHENG¹ and Xiaoru WANG^{1,2}

H59 ¹ Research Center for Marine Ecology, The First Institute of Oceanography, State Oceanic Administration, Qingdao 266061, China;

² College of Chemistry and Chemical Engineering, Xiamen University, Xiamen 361005, China

PERSISTENT TOXIC SUBSTANCES RESEARCH ON FOREFRONT ISSUES IN CHINA

Feiyu LI

H60 Environmental Engineering, Chemistry & Materials science institute, Beijing Institute of Technology, Zhuhai Campus, Zhuhai 519088

QUANTIFICATION OF SEVEN ARTIFICIAL SWEETENERS IN VARIOUS NATURAL WATERS WITH SOLID-PHASE EXTRACTION-ION-PAIR-HPLC-MASS SPECTROMETRY

Zhiwei GAN, Hongwen SUN, Ruonan WANG and Biting FENG

H61 MOE Key Laboratory of Pollution Processes and Environmental Criteria, College of Environmental Science and Engineering, Nankai University, Tianjin 300071, China

ACUTE AND CHRONIC AQUATIC TOXICITY OF ACRYLAMIDE ON DAPHNIA MAGNA

Xiuming CAO¹, Delin XU¹, Jiajia GAO¹ and Rongchao LIANG³

H62 ¹ Harbin University of Commerce Life Science and Environmental Research Development Centre, Harbin, China, 150076

² Harbin University of Commerce Drug Research Institute post-doctoral research station, Harbin, China, 150076

³ Anti-tumor Engineering Research Center of Natural Medicine, Harbin, China, 150076

- VERTICAL DISTRIBUTION OF ARSENIC (*AS*), LEAD (*PB*) AND MERCURY (*HG*) IN IRRIGATED SOILS ALONG THE DONGGANG AND XIGANG CANALS OF DAYE CITY
H63 W. Chen, S. H. Qi, X. H. Zhang, Y. P. Ke, J. Yu, C. K. Qu, K. Diallo
State Key Laboratory of Biogeology and Environmental Geology; School of Environmental Studies, China University of Geosciences (CUG), Wuhan, 430074, P. R. China
- BROMINATED FLAME RETARDANTS IN THE ATMOSPHERE OF E-WASTE AND RURAL SITE IN SOUTHERN CHINA: SEASONAL VARIATION, TEMPERATURE DEPENDENCE, AND GAS/PARTICLE PARTITIONING
H64 Mi TIAN,^{1,2} She-Jun CHEN,¹ Jing WANG,^{1,2} Xiao-Bo ZHENG,^{1,2} Xiao-Jun LUO,¹ Bi-Xian MAI¹
¹State Key Laboratory of Organic Geochemistry, Guangzhou Institute of Geochemistry, Chinese Academy of Sciences, Guangzhou 510640, China
²Graduate University of Chinese Academy of Sciences, Beijing 100049, China
- THE INTEGRATIVE APPLICATION OF X-RAY SPECTRUM TO STUDY THE UPTAKE OF NANO-ZNO BY MAIZE
H65 Jitao LV, Lei LUO and Shuzhen ZHANG
Research Center for Eco-Environmental Sciences, Chinese Academy of Sciences, Beijing, 100085, China
- THE TOXIC EFFECT OF TETRABROMOBISPHENOL A AND HEXABROMOCYCLODODECANE ON MARINE MICROALGAE
H66 Xiaoyan WANG, Fenghua JIANG, Li ZHENG and Junhui CHEN
¹Research center of Marine ecology, The First Institute of Oceanography, State Ocean Administration (SOA), Shan Dong, QingDao, 266061, China;
²College of Chemistry and Chemical Engineering, Ocean University of China, Shan Dong, Qingdao, 266100, China
- DNA DAMAGE IN BLOOD LYMPHOCYTES CELLS OF CHLAMYDOMONAS FARRERI INDUCED BY PETROLEUM HYDROCARBONS
H67 Fenghua JIANG, Xiaoyan WANG, Li ZHENG and Meili ZHAO
1 Research center of Marine ecology, The First Institute of Oceanography, State Ocean Administration (SOA), Shan Dong, QingDao, 266061, China;
2. College of Chemistry and Chemical Engineering, Ocean University of China, Shan Dong, Qingdao, 266100, China

EFFECTS OF TEMPERATURE AND ORGANIC LEAD COMPOUNDS ON THE EXPRESSION OF HSP90 AND HSP12.2 IN C. ELEGAN

Yunbiao WANG and Xiaoli HOU

- H68 Key Laboratory of Wetland Ecology and Environment, Institute of Northeast Geography and Agroecology, Chinese Academy of Sciences, Changchun 130012, PR China

DETERMINATION OF ORGANIC MERCURY SPECIES IN WEN-RUI-TANG RIVER AND OU RIVER OF WENZHOU CITY BY IL-DLLME COUPLED WITH HPLC-AFS

- H69 Xixi SONG, Mingde YE and Chengjun WANG

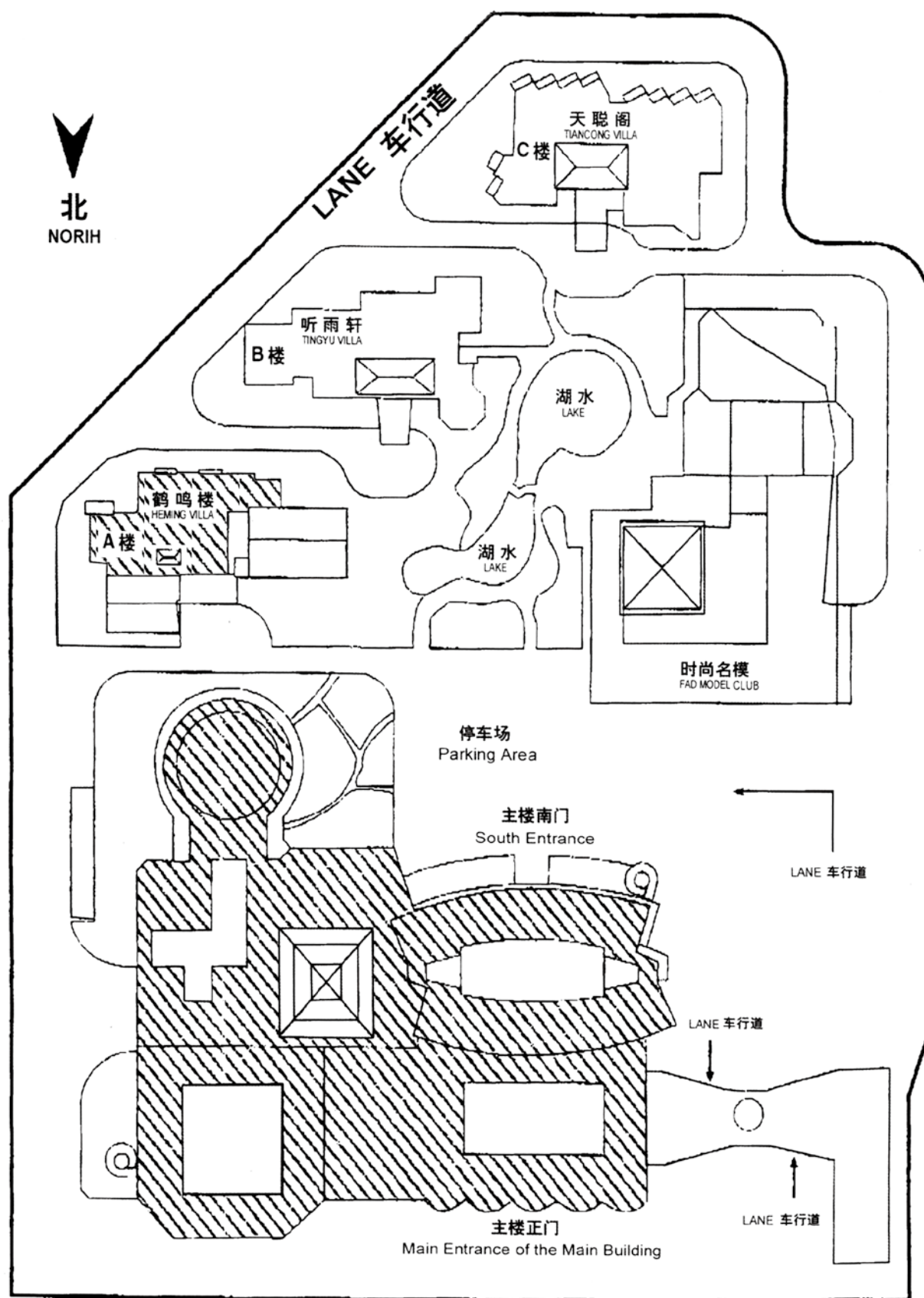
College of Chemistry and Materials Engineering, Wenzhou University, Wenzhou 325035

HEXABROMOCYCLODODECANES IN SURFACE SEDIMENTS FROM THE HAIHE RIVER, DAGU DRAINAGE CANAL AND TIANJIN HARBOR OF BOHAI BAY IN TIANJIN CITY OF CHINA: CONCENTRATIONS, DIASTEREOISOMER- AND ENANTIOMER-SPECIFIC PROFILES

- H70

Yanwei ZHANG, Hongwen SUN and Yuefei RUAN

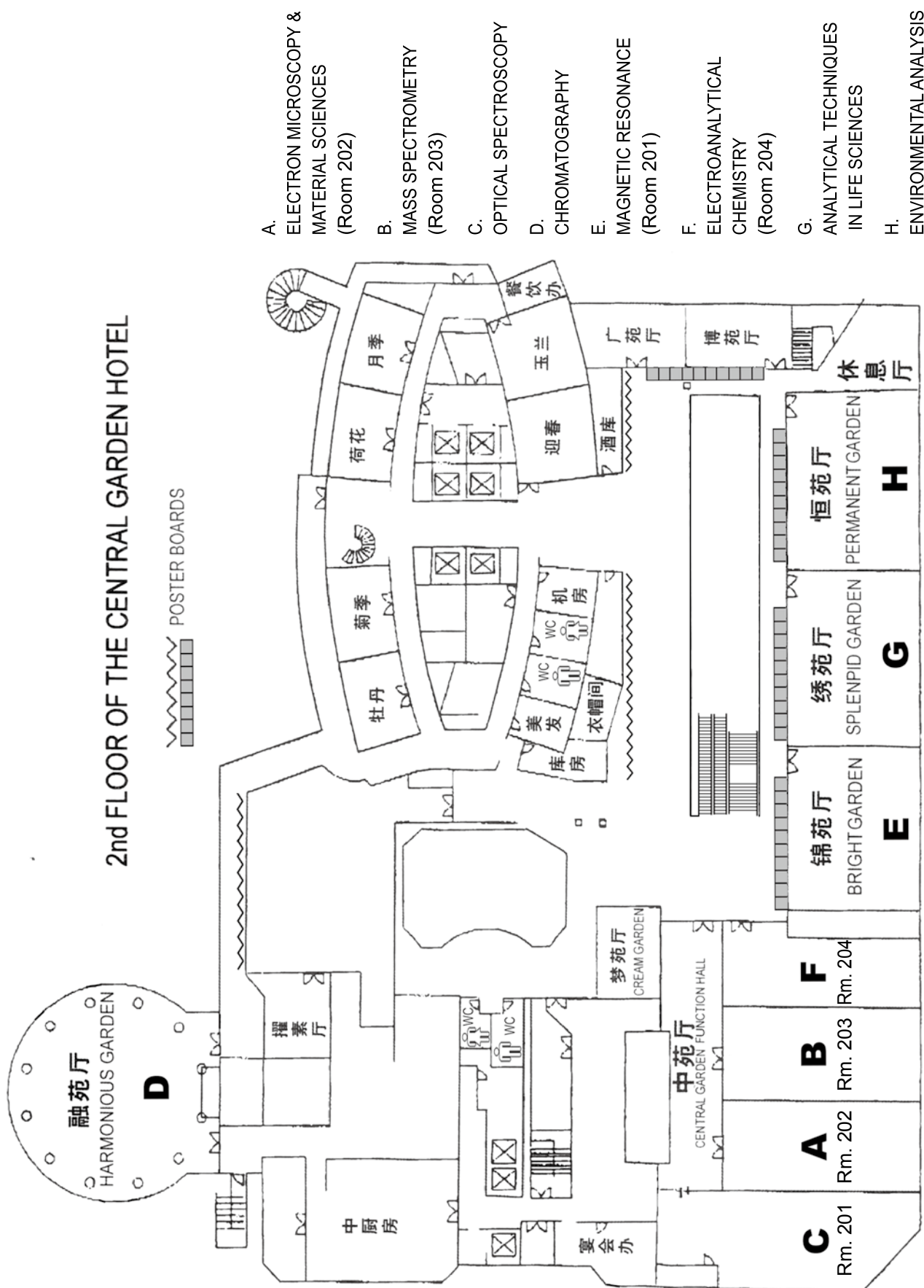
MOE Key Laboratory of Pollution Processes and Environmental Criteria, College of Environmental Science and Engineering, Nankai University, Tianjin 300071, China



 Meeting Area

MAP OF THE CENTRAL GARDEN HOTEL COMPLEX

The 14th Beijing Conference and Exhibition on Instrumental Analysis







BCEIA 2011 北展技术

讲座日程

10月12日 上午

公司名称	交流内容	讲演人	交流厅
阿默思(上海)仪器贸易有限公司	电子感官分析的发展	姚桂燕	A
上海跃胜贸易有限公司	美国天地试剂中国工厂成立新闻发布会	美国天地有限公司销售与市场总监 Chris Dendy 先生 安徽天地高纯溶剂有限公司总经理 吴伟龙先生	B
上海仪真分析仪器有限公司 Esensing Analytical Technology Co., Ltd.	9:00-9:45am 重金属项目检测新武器: 1) 全自动石墨消解系统 2) 全自动总汞/甲基汞二合一分析系统 10-10:45am 在线二维固相萃取 SPE-LS/MS/MS 在食品安全及新药临床检测中的应用 11-11:35 am 全自动 96 平行通道毛细管凝胶电泳在 DNA/RNA 片断分析 Tilling 等遗传分析的应用		1
江苏天瑞仪器股份有限公司	1、《XRF 在环境重金属检测的最新方法研究》 2、《XRF 在合金分析检测行业中的运用》	吴升海 姚栋梁	2

10月12日 下午

公司名称	交流内容	讲演人	交流厅
岛津企业管理(中国)有限公司 SHIMADZU (CHINA) CO.,LTD.	主题: 食品安全、法庭科学和环境污染分析专场 1. 岛津食品安全全面解决方案 2. 岛津仪器新技术在法庭科学中的应用 3. 环境有机污染物分析岛津最新解决方案 4. 岛津光谱仪器在环境无机污染物分析中的应用	吴国华 李佳萍 靳松 侯艳红	A
赛默飞世尔科技(戴安产品)	新品发布会 1. 离子色谱新进展及在食品等检测中的应用 2. 快速溶剂萃取技术及其应用 3. Velos Pro- 提高离子阱质谱的定量能力	叶明立 赛默飞世尔科技戴安产品上海应用实验室主管 车金水 赛默飞世尔科技戴安产品高级应用工程师 杜伟 赛默飞世尔科技高级应用工程师	B
北京绿绵科技有限公司	全球首台高分辨微型核磁共振仪介绍及其应用 Introducing of the world's first high-resolution micro-NMR and its application MassWorksTM 分子式识别技术应用的最新进展 Latest Application of MassWorksTM on Accurate Mass and Elemental Composition Determination		1
分析测试百科网	ANTalk——分析测试百家讲坛		1
北京格林德国际科技有限公司	离子迁移谱 GC-IMS 新一代的快速检测技术		2

The 14th Beijing Conference and Exhibition on Instrumental Analysis

10月13日 上午

公司名称	交流内容	讲演人	交流厅
岛津企业管理(中国)有限公司 SHIMADZU (CHINA) CO.,LTD.	主题: 生命科学和新药研发专场 1. 岛津 MALDI-TOF 在临床研究中的应 2. 新药创制 - 靶标的发现与确证 3. 岛津新药研发全面解决方案	赵宁伟 李正友 朱天强	A
密理博(上海)贸易有限公司 Millipore (Shanghai) Trading Co., Ltd.	国际标准的实验室整体(中央)纯水系统 International Standard for Laboratory Central Water System	默克密理博实验室纯水部定制纯水系统业务经理 李葆华 Merck Chemicals China Merck Millipore/Lab Water Custom System Business Manager	B
岛津技迹(上海)商贸有限公司	液相色谱柱的选择技巧——从前处理至应用方案		1
慕尼黑展览(上海)有限公司 Munich Trade Fairs (Shanghai) Co., Ltd	2012 慕尼黑上海分析生化展新闻发布会 analytica China 2012 Press Conference		2

10月13日 下午

公司名称	交流内容	讲演人	交流厅
德国斯派克分析仪器公司	1. 新一代全谱直读 ICP 光谱及全质量数、全同位素同时分析 ICP 质谱技术及应用	符廷发 教授	A
	2. 新一代 ED (P) XRF 在环保监测及地质调查中的分析及应用	Dr. Dirk Wissmann	
斯百全化学(上海)有限公司	1) 乙醇检测在试剂和药典中的应用 2) 2,6- 二氨基吡啶含量的测试方法探讨 3) 如何选择 HPLC 溶剂	李爱萍 肖飞 董卫卫	B
德国耶拿分析仪器股份公司	高分辨连续光源原子吸收光谱在食品安全检测中的应用 High-Resolution Continuum Source AAS New Applications in Food Safety Testing	德国耶拿大中华区首席代表 赵泰先生 AJ China GM: Mr.Zhao Tai	1
日立阿洛卡医疗株式会社 Hitachi Aloka Medical,Ltd.	液体闪烁测量仪系统介绍 Liquid Scintillation Counter System Introduction	赵洛斐 (LF.Zhao) International Marketing & Sales	2

10月14日 上午

公司名称	交流内容	讲演人	交流厅
北京滨松光子技术股份有限公司	光电探测器在分析仪器中的选择及其应用技术	李妙堂 研究员级高级工程师	B
岛津技迹(上海)商贸有限公司	气相色谱柱的选择技巧——从前处理至应用方案		1

10月14日 下午

公司名称	交流内容	讲演人	交流厅
德国斯派克分析仪器公司	1. 德国斯派克新一代全谱直读 ICP 光谱及全质量数、全同位素同时分析 ICP 质谱技术及应用	符廷发 教授	A
	2. 新一代 ED (P) XRF 在环保监测及地质调查中的分析及应用	Dr. Dirk Wissmann	
荷兰帕纳科公司	最新 3D 探测器 -PIXcel 3D The newest Detector- PIXcel 3D	Dr.Martijn Fransen Senior Product Manager XRD	1
仪器信息网	仪器信息网论坛十周年座谈会		B



BCEIA 2011

应用技术报告会日程

食品安全分析分会场学术报告会

2011年10月13日上午 9:30-12:00 主持人：储晓刚研究员 地点：北京展览馆第四会议室

序号	报告题目	报告人单位	报告人	报告时间
1	食品中污染物检测技术现状和对仪器需求	中国 CDC 食品营养与安全所	吴永宁研究员	9:30-10:00
2	离子淌度差分质谱分析食品安全中同分异构违禁物	AB 公司	赵贵平	10:00-10:30
3	食用海产品中海洋生物毒素仪器分析技术及替代生化方法的发展现状	辽宁出入境检验检疫局技术中心	曹际娟研究员	10:30-11:00
4	LGC 食品分析概况及分析标准物质	英国 LGC(政府化学家实验室) 有限公司	陈红博士	11:00-11:30
5	食品中添加剂及非法添加物多种筛查技术介绍	中国检验检疫科学研究院食品安全所	储晓刚研究员	11:30-12:00

2011年10月13号下午 13:00-15:30 主持人：储晓刚研究员 地点：北京展览馆第四会议室

1	多功能移动实验室现场检测实践与应用	烟台富耐立科技有限公司	陆地	13:00-13:30
2	新型色谱填料技术在食品安全检测中的应用	迪马科技	李广庆博士	13:30-14:00
3	食品安全快速检测方法研究与装备研究	中国人民解放军卫生监督中心	高志贤研究员	14:00-14:30
4	新型快速样品前处理技术在食品领域的应用	天津博纳艾杰尔	王欣玲	14:30-15:00
5	Supelco 最新样品前处理技术在营养与食品安全中的应用	Sigma-Aldrich 公司	Dr. Michael Ye	15:00-15:30

2011年10月14日上午 9:30-12:00 主持人：高志贤研究员 地点：北京展览馆第四会议室

1	酶联免疫学检测技术在食品中有害物质筛查的应用于发展趋势	中国农业大学动物医学院	沈建忠教授	9:30-10:00
2	戴安 ASE 加速溶剂萃取技术双三元液相色谱在食品分析中的应用	戴安公司	刘肖	10:00-10:30
3	食物中毒快速筛查技术案例分析及对现代分析仪器的需求	北京 CDC 化学检测实验室	邵兵研究员	10:30-11:00
4	超快速 LC/MS/MS 在食品安全检测中的应用	岛津公司	邓力	11:00-11:30
5	现代红外化学成像技术及其在食品药品安全领域的应用	珀金埃尔默仪器 (上海) 有限公司	郁露	11:30-12:00

2011年10月14号下午 13:00-15:30 主持人：高志贤研究员 地点：北京展览馆第四会议室

1	食品中放射性物质检测技术与装备	山东烟台出入境检验检疫局技术中心	陆地	13:00-13:30
2	布鲁克气质联用食品安全解决方案	布鲁克公司	刘东静	13:30-14:00
3	功能食品中的兴奋剂检测技术研究	国家兴奋剂检测中心	吴侔天研究员	14:00-14:30
4	进口食品中有害残留超痕量分析技术与案例分析	厦门出入境检验检疫局技术中心	严丽娟研究员	14:30-15:00
5	Q-Exactive 新型轨道阱质谱仪 - 解决食品安全难题	赛默飞世尔科技 (中国) 有限公司	杜伟	15:00-15:30

药物分析分会场学术报告会

2011年10月13日上午 9:30-12:00 主持人：杨松成研究员 地点：北京展览馆第五会议室

序号	报告题目	报告人单位	报告人	报告时间
1	2010年版《中国药典》仪器分析方法的介绍	中国药典委员会	钱忠直处长	9:30-10:00
2	提高实验室的分析通量的关键技术 - 在线样品前处理与快速仪器分析	岛津公司	李佳萍	10:00-10:30
3	药品快速检测技术的发展方向	中国食品药品检定科学院	尹利辉主任	10:30-11:00
4	戴安双三元液相色谱和电雾式检测器在药物及天然产物分析中的应用	戴安公司	梁立娜	11:00-11:30
5	样品制备的最新技术进展——磁珠法核酸提取技术	英国 LGC(政府化学家实验室)有限公司	花月平博士	11:30-12:00

2011年10月13号下午 13:00-15:30 主持人：张金兰研究员 地点：北京展览馆第五会议室

1	生物药物结构鉴定的进展	军事医学科学院国家生物医学分析中心	杨松成研究员	13:00-13:30
2	蛋白质组学研究平台新突破：SWATH 的工作流程	AB 公司	李春波	13:30-14:00
3	新药 I 期研究中的生物样品定量分析的核心技术： LC-MS/MS	北京协和医院临床药理研究中心	王洪允博士	14:00-14:30
4	最新液质联用技术在新药研发和临床中的应用	岛津公司	文艳	14:30-15:00
5	硅胶双层表面处理技术在药物分析中的作用	天津博纳艾杰尔	杨定忠	15:00-15:30

2011年10月14号上午 9:30-12:00 主持人：李晓东研究员 地点：北京展览馆第五会议室

1	中药中有害残留污染物检测方法研究	中国医学科学院药用植物研究所	杨美华研究员	9:30-10:00
2	手性色谱技术在新药研发领域中的应用	大赛璐药物手性技术(上海)有限公司	陈小明	10:00-10:30
3	液相色谱高分辨质谱联用技术在中草药成分分析和鉴定方面应用研究	中国医学科学院药物研究所	张金兰研究员	10:30-11:00
4	LGC 医药杂质标准品——原料药及制剂中的杂质	英国 LGC(政府化学家实验室)有限公司	周建宁	11:00-11:30
5	中草药及其复方多成分药代动力学研究	中国医学科学院药物研究所	吴彩胜博士	11:30-12:00

材料分析分会场学术报告会

2011年10月14日下午 13:00-15:40 主持人：凌玲女士 地点：北京展览馆第五会议室

序号	报告题目	报告人单位	报告人	报告时间
1	北京材料分析测试机构合作模式创新	北京材料分析测试服务联盟	肖澜秘书长	13:00-13:10
2	电子探针轻元素分析	中航工业北京航空材料研究院	陶春虎教授	13:10-13:40
3	岛津：材料分析行业全面解决方案的提供者	岛津公司	陈艳凤	13:40-14:10
4	关于矿山环境污染及监测技术的新认识	国家重有色金属质量监督检验中心	李华昌教授	14:10-14:40
5	Hyper DSC 在材料分析中的应用介绍	珀金埃尔默仪器(上海)有限公司	叶鹏博士	14:40-15:10
6	脆性材料的力学性能测试新技术	中国建筑材料检验认证中心	包亦望教授	15:10-15:40



环境分析分会场学术报告会

2011年10月15日上午 9:30-12:00 主持人：董亮研究员 地点：北京展览馆第四会议室

序号	报告题目	报告人单位	报告人	报告时间
1	大气中持久性有机污染物被动采样技术	中科院生态中心	张庆华研究员	9:30-10:00
2	GCMS 在环境水质分析中的最新应用	岛津公司	胡家祥	10:00-10:30
3	气相色谱质谱在环境分析中的应用和发展	国家环境分析测试中心	董亮研究员	10:30-11:00
4	便携式 GC-TMS 现场检测环境中有害物质	普立泰科仪器有限公司	董媛	11:00-11:30
5	戴安双三元液相色谱在环境分析中的应用	戴安公司	潘媛媛	11:30-12:00

色谱专题分会场学术报告会

2011年10月15日上午 9:30-12:00 主持人：汪正范研究员 地点：北京展览馆第五会议室

序号	报告题目	报告人单位	报告人	报告时间
1	全二维气相色谱 - 高分辨飞行时间质谱分析原油样品	普立泰科仪器有限公司	董媛	9:30-10:00
2	色谱快速分析柱的研究	南京伽诺色谱技术有限公司	赵让梅	10:00-10:30
3	现代色谱分离技术	岛津公司	靳松	10:30-11:00
4	PerkinElmer 最新一代的 GCMS 的特点及相关技术	珀金埃尔默仪器（上海）有限公司	胡子豪	11:00-11:30

2011 年中日科学仪器 发展论坛

2011 年 10 月 12 日上午 9:30-12:00 地点: 北京展览馆第八会议室				
序号	报告题目	报告人单位	报告人	报告时间
1	致辞	中国分析测试协会	王顺昌副理事长	9:30-9:35
2	致辞	科技部科研条件与财务司	吴学梯副司长	9:35-9:40
3	致辞	日本分析仪器工业会 (JAIMA)	服部重彦会长	9:40-9:50
4	中国科学仪器市场概况	中国仪器仪表行业协会	闫增序秘书长	9:50-10:20
5	推进科学技术创新	日本产业基础推进部	森本 茂雄部长	10:20-11:05
6	站在前人的肩膀上, 看的更广更远	中国科学院大连化学物理研究所	关亚风研究员	11:05-11:35

2011 年 10 月 12 号下午 13:30-16:00 地点: 北京展览馆第八会议室				
序号	报告题目	报告人单位	报告人	报告时间
1	日本的科学仪器及其市场动态	日本分析机器工业会 (JAIMA) 国际委员会	川本健志主席	13:30-14:15
2	创新助推国产科学仪器发展	聚光科技 (杭州) 股份有限公司	王健董事长、教授	14:15-14:45
3	分析仪器的十年及其未来	东京大学、日本科学技术振兴机构 (JST)	泽田嗣郎教授	14:45-15:30
4	使用参展商 / 分销商的便利平台的优点	美国匹兹堡会议组织委员会委员	林富田博士	15:30-16:00

注: 大会语言为中文, 日方代表报告用日文, 有中文翻译。



展商名录索引 INDEX OF EXHIBITORS

按展馆号及展台号顺序排列 According to Hall No. and Booth No.

公司名称
Company

展台号
Booth No.

一号馆 HALL 1

1. 北京普析通用仪器有限责任公司 1001-1004, 1017-1024
BEIJING PURKINJE GENERAL INSTRUMENT CO., LTD.
2. 北京吉天仪器有限公司 1005-1008
Beijing Titan Instruments Co., Ltd.
3. 岛津企业管理(中国)有限公司 1009-1012, 1025-1032
SHIMADZU (CHINA) CO., LTD.
4. 奥地利安东帕(中国)有限公司 1013-1016
Anton Paar China

二号馆 HALL 2

5. 昭和电工科学仪器(上海)有限公司 2001, 2002
Shodex China
6. 苏州汉星分析传感器有限公司 2003
Suzhou HanStar Analytical Sensor Co., Ltd.
7. CLAISSE SCIENTIFIC CORPORATION INC. 2004
8. 英国 LGC 有限公司 2005
LGC Limited
9. 岛津技迹(上海)商贸有限公司 2006
Shimadzu-GL Sciences(Shanghai)Laboratory Supplies CO., LTD.
10. 北京金欧亚科技发展有限公司 2007
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11. 必达泰克光电科技(上海)有限公司 2008
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15. 照生有限公司 2015-2018
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