

AGENDA OF PLENARY LECTURES

Time: Nov. 25, 2009 AM (Wednesday)

Location: Central Garden Function Hall, Central Garden Hotel

Chairman: Prof. Ze ZHANG

8:30-8:45 Opening Speech by Prof. Erkang WANG

Chairman: Prof. Erkang WANG

8:45-9:30 G1 INNOVATION FROM FUSION OF INTERDISCIPLINARY
ANALYTICAL CHEMISTRY
Mr. Koichi TANAKA (Nobel Prizer)
Koichi Tanaka Mass Spectrometry Research Laboratory,
Shimadzu Corporation, Japan

9:30-10:15 Z **Prof. Ze ZHANG**
Beijing University of Technology, China

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

Chairman: Prof. Erkang WANG

10:30-11:15 D1 UNDERSTANDING CHROMATOGRAPHY ONE
MOLECULE AT A TIME
Prof. Edward S. YEUNG
Iowa State University, USA

11:15-12:00 C1 AN OPTO-ELECTRONIC NOSE BASED ON
COLORIMETRIC SENSOR ARRAYS
Prof. Kenneth S. SUSLICK
University of Illinois at Urbana-Champaign, USA

Time: Nov. 26, 2009 AM (Thursday)

Location: Central Garden Function Hall, Central Garden Hotel

Chairman: Prof. Ze ZHANG

8:30-9:15 A1 TO NEW DIMENSIONS IN ELECTRON MICROSCOPY
WITH ADVANCED ABERRATION CORRECTORS
Dr. Maximilian HAIDER
CEOS GmbH, Germany

		NEW METHODS FOR MASS SPECTROMETRY-BASED PROTEOMICS
9:15-10:00	B1	Prof. Catherine C. FENSELAU University of Maryland, USA

10:00-10:15		Coffee Break
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Chairman: Prof. Ze ZHANG

		TOP DOWN SYSTEM BIOLOGY IN HEALTH AND DISEASE
10:15-11:00	E1	Prof. Jeremy K NICHOLSON Imperial College London, UK

		ELECTROCHEMICAL ASPECTS OF PROTEOMICS
11:00-11:45	F1	Prof. Hubert GIRAULT Ecole Polytechnique Fédérale de Lausanne, Switzerland

		PROGRESS AND PERSPECTIVE OF SAMPLE PREPARATION
11:45-12:30	H1	Prof. Janusz PAWLISZYN University of Waterloo, Canada

AGENDA OF SESSIONS

A. ELECTRON MICROSCOPY&MATERIAL SCIENCES

Date	Time	Location & Activities	
Nov. 24 (Tue.)	8:00-24:00	Lobby, The Central Garden Hotel Registration	
Nov. 25 (Wed.)	AM 8:30-12:00	Central Garden Function Hall, Central Garden Hotel Opening Speech by Prof. Erkang WANG BCEIA2009 General Plenary Session Chairman: Prof. Erkang WANG G1, Z, D1, C1	
	PM 13:30-17:00	BCEIA2009 Exhibition Visit Location: Beijing Exhibition Center	
	PM 18:30-20:30	Welcoming Banquet Location: Hu Nan Hall, Beijing Shiji Huatian Hotel	
Nov. 26 (Thu.)	AM 8:30-12:30	Central Garden Function Hall, Central Garden Hotel BCEIA2009 General Plenary Session Chairman: Prof. Ze ZHANG A1, B1, E1, F1, H1	
	PM 13:30-17:00	Oral Presentation Location: Room 202, Central Garden Function Hall, Central Garden Hotel A2, A3, A4, A5, A6, A7, A8	Posters Location: 2 nd Floor of the Central Garden Hotel A32-A47
Nov. 27 (Fri.)	AM 8:30-12:20	Oral Presentation Location: Room 202, Central Garden Function Hall, Central Garden Hotel A9, A10, A11, A12, A13, A14, A15, A16	
	PM 13:30-17:00	Oral Presentation Location: Room 202, Central Garden Function Hall, Central Garden Hotel A17, A18, A19, A20, A21, A22, A23	
Nov. 28 (Sat.)	AM 8:30-12:10	Oral Presentation Location: Room 202, Central Garden Function Hall, Central Garden Hotel A24, A25, A26, A27, A28, A29, A30, A31	
	PM	Conference Closed	

AGENDA OF SESSIONS

B. MASS SPECTROMETRY

Date	Time	Location & Activities	
Nov. 24 (Tue.)	8:00-24:00	Lobby, The Central Garden Hotel Registration	
Nov. 25 (Wed.)	AM 8:30-12:00	Central Garden Function Hall, Central Garden Hotel Opening Speech by Prof. Erkang WANG BCEIA2009 General Plenary Session Chairman: Prof. Erkang WANG G1, Z, D1, C1	
	PM 13:30-17:00	BCEIA2009 Exhibition Visit Location: Beijing Exhibition Center	
	18:30-20:30	Welcoming Banquet Location: Hu Nan Hall, Beijing Shiji Huatian Hotel	
Nov. 26 (Thu.)	AM 8:30-12:30	Central Garden Function Hall, Central Garden Hotel BCEIA2009 General Plenary Session Chairman: Prof. Ze ZHANG A1, B1, E1, F1, H1	
	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	
Nov. 27 (Fri.)	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	
	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	
Nov. 28 (Sat.)	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-B76
	PM	Conference Closed	

AGENDA OF SESSIONS

C. OPTICAL SPECTROSCOPY

Date	Time	Location & Activities	
Nov. 24 (Tue.)	8:00-24:00	Lobby, The Central Garden Hotel Registration	
Nov. 25 (Wed.)	AM 8:30-12:00	Central Garden Function Hall, Central Garden Hotel Opening Speech by Prof. Erkang WANG BCEIA2009 General Plenary Session Chairman: Prof. Erkang WANG G1, Z, D1, C1	
	PM 13:30-17:00	BCEIA2009 Exhibition Visit Location: Beijing Exhibition Center	
	18:30-20:30	Welcoming Banquet Location: Hu Nan Hall, Beijing Shiji Huatian Hotel	
Nov. 26 (Thu.)	AM 8:30-12:30	Central Garden Function Hall, Central Garden Hotel BCEIA2009 General Plenary Session Chairman: Prof. Ze ZHANG A1, B1, E1, F1, H1	
	PM 14:00-17:40	Oral Presentation Location: Bright Garden Hall, Central Garden Hotel C2, C3, C4, C5, C6, C7, C8, C9	
Nov. 27 (Fri.)	AM 8:30-12:10	Oral Presentation Location: Bright Garden Hall, Central Garden Hotel C10, C11, C12, C13, C14, C15, C16, C17	Posters Location: 2 nd Floor of the Central Garden Hotel C39-C103
	PM 13:30-18:00	Oral Presentation Location: Bright Garden Hall, Central Garden Hotel C18, C19, C20, C21, C22, C23, C24, C25, C26, C27, C28, C29	
Nov. 28 (Sat.)	AM 8:30-11:50	Oral Presentation Location: Bright Garden Hall, Central Garden Hotel C30, C31, C32, C33, C34, C35, C36, C37, C38	
	PM	Conference Closed	

AGENDA OF SESSIONS

D. CHROMATOGRAPHY

Date	Time	Location & Activities	
Nov. 24 (Tue.)	8:00-24:00	Lobby, The Central Garden Hotel Registration	
Nov. 25 (Wed.)	AM 8:30-12:00	Central Garden Function Hall, Central Garden Hotel Opening Speech by Prof. Erkang WANG BCEIA2009 General Plenary Session Chairman: Prof. Erkang WANG G1, Z, D1, C1	
	PM 13:30-17:00	BCEIA2009 Exhibition Visit Location: Beijing Exhibition Center	
	18:30-20:30	Welcoming Banquet Location: Hu Nan Hall, Beijing Shiji Huatian Hotel	
Nov. 26 (Thu.)	AM 8:30-12:30	Central Garden Function Hall, Central Garden Hotel BCEIA2009 General Plenary Session Chairman: Prof. Ze ZHANG A1, B1, E1, F1, H1	
	PM 13:25-17:30	Oral Presentation Location: Harmonious Garden Hall, Central Garden Hotel D2, D3, D4, D5, D6, D7, D8, D9	Posters Location: Harmonious Garden Hall & 2 nd Floor of the Central Garden Hotel D43-D107
Nov. 27 (Fri.)	AM 8:30-11:30	Oral Presentation Location: Harmonious Garden Hall, Central Garden Hotel D10, D11, D12, D13, D14, D15, D16, D17, D18, D19	
	PM 13:30-17:00	Oral Presentation Location: Harmonious Garden Hall, Central Garden Hotel D20, D21, D22, D23, D24, D25, D26, D27, D28, C29, D30, D31, D32	
Nov. 28 (Sat.)	AM 8:30-11:40	Oral Presentation Location: Harmonious Garden Hall, Central Garden Hotel D33, D34, D35, D36, D37, D38, D39, D40, D41, D42	
	PM	Conference Closed	

AGENDA OF SESSIONS

E. MAGNETIC RESONANCE

Date	Time	Location & Activities	
Nov. 24 (Tue.)	8:00-24:00	Lobby, The Central Garden Hotel Registration	
Nov. 25 (Wed.)	AM 8:30-12:00	Central Garden Function Hall in Central Garden Hotel Opening Speech by Prof. Erkang WANG BCEIA2009 General Plenary Session Chairman: Prof. Erkang WANG G1, Z, D1, C1	
	PM 13:30-17:00	BCEIA 2009 Exhibition Visit Location: Beijing Exhibition Center	
	18:30-20:30	Welcoming Banquet Location: Hu Nan Hall, Beijing Shiji Huatian Hotel	
Nov. 26 (Thu.)	AM 8:30-12:30	Central Garden Function Hall, Central Garden Hotel BCEIA2009 General Plenary Session Chairman: Prof. Ze ZHANG A1, B1, E1, F1, H1	
	PM 13:30-17:10	Oral Presentation for E-sessions Location: Room 201, Central Garden Function Hall, Central Garden Hotel E2, E3, E4, E5, E6, E7, E8, E9	
Nov. 27 (Fri.)	AM 8:30-12:00	Oral Presentation Location: E10, E11, E12, E13, E14, E15, E16	
	PM 13:30-17:30	Oral Presentation Location: Room 201, Central Garden Function Hall, Central Garden Hotel E17, E18, E19, E20, E21, E22	Posters Location: 2 nd Floor of the Central Garden Hotel E39-E82
Nov. 28 (Sat.)	AM 8:30-11:45	Oral Presentation Location: Room 201, Central Garden Function Hall, Central Garden Hotel E23, E24, E25, E26, E27, E28, E29, E30	
	PM 13:30-17:00	Oral Presentation Location: Room 201, Central Garden Function Hall, Central Garden Hotel E31, E32, E33, E34, E35, E36, E37, E38	

SCHEDULE OF SESSIONS

F. ELECTROANALYTICAL CHEMISTRY

Date	Time	Location & Activities	
Nov. 24 (Tue.)	8:00-24:00	Lobby, The Central Garden Hotel Registration	
Nov. 25 (Wed.)	AM 8:30-12:00	Central Garden Function Hall, Central Garden Hotel Opening Speech by Prof. Erkang WANG BCEIA2009 General Plenary Session Chairman: Prof. Erkang WANG G1, Z, D1, C1	
	PM 13:30-17:00	BCEIA2009 Exhibition Visit Location: Beijing Exhibition Center	
	18:30-20:30	Welcoming Banquet Location: Hu Nan Hall, Beijing Shiji Huatian Hotel	
Nov. 26 (Thu.)	AM 8:30-12:30	Central Garden Function Hall, Central Garden Hotel BCEIA2009 General Plenary Session Chairman: Prof. Ze ZHANG A1, B1, E1, F1, H1	
	PM 13:30-17:20	Oral Presentation Location: Room 204, Central Garden Function Hall, Central Garden Hotel F2, F3, F4, F5, F6, F7, F8, F9	
Nov. 27 (Fri.)	AM 8:00-12:00	Oral Presentation Location: Room 204, Central Garden Function Hall, Central Garden Hotel F10, F11, F12, F13, F14, F15, F16, F17, F18	Posters Location: 2 nd Floor of the Central Garden Hotel F33-F43
	PM 13:30-17:30	Oral Presentation Location: Room 204, Central Garden Function Hall, Central Garden Hotel F19, F20, F21, F22, F23, F24, F25, F26, F27	
Nov. 28 (Sat.)	AM 8:00-11:00	Oral Presentation Location: Room 204, Central Garden Function Hall, Central Garden Hotel F28, F29, F30, F31, F32	
	PM	Conference Closed	

SCHEDULE OF SESSIONS

G. ANALYTICAL TECHNIQUES IN LIFE SCIENCES

Date	Time	Location & Activities	
Nov. 24 (Tue.)	8:00-24:00	Lobby, The Central Garden Hotel Registration	
Nov. 25 (Wed.)	AM 8:30-12:00	Central Garden Function Hall, Central Garden Hotel Opening Speech by Prof. Erkang WANG BCEIA2009 General Plenary Session Chairman: Prof. Erkang WANG G1, Z, D1, C1	
	PM 13:30-17:00	BCEIA2009 Exhibition Visit Location: Beijing Exhibition Center	
	18:30-20:30	Welcoming Banquet Location: Hu Nan Hall, Beijing Shiji Huatian Hotel	
Nov. 26 (Thu.)	AM 8:30-12:30	Central Garden Function Hall, Central Garden Hotel BCEIA2009 General Plenary Session Chairman: Prof. Ze ZHANG A1, B1, E1, F1, H1	
	PM 13:30-17:10	Oral Presentation Location: Splendid Garden Hall, Central Garden Hotel G2, G3, G4, G5, G6, G7, G8	
Nov. 27 (Fri.)	AM 8:30-12:10	Oral Presentation Location: Splendid Garden Hall, Central Garden Hotel G9, G10, G11, G12, G13, G14, G15	
	PM 13:30-17:40	Oral Presentation (13:30-17:10) Location: Splendid Garden Hall, Central Garden Hotel G16, G17, G18, G19, G20, G21, G22	Posters (17:10-17:40) Location: 2 nd Floor of the Central Garden Hotel G32-G69
Nov. 28 (Sat.)	AM 8:30-12:00	Oral Presentation Location: Splendid Garden Hall, Central Garden Hotel G23, G24, G25, G26, G27, G28, G29, G30, G31	Posters (10:10-10:40) Location: 2 nd Floor of the Central Garden Hotel G32-G69
	PM	Conference Closed	

SCHEDULE OF SESSIONS

H. ENVIRONMENTAL ANALYSIS

Date	Time	Location & Activities	
Nov. 24 (Tue.)	8:00-24:00	Lobby, The Central Garden Hotel Registration	
Nov. 25 (Wed.)	AM 8:30-12:00	Central Garden Function Hall, Central Garden Hotel Opening Speech by Prof. Erkang WANG BCEIA2009 General Plenary Session Chairman: Prof. Erkang WANG G1, Z, D1, C1	
	PM 13:30-17:00	BCEIA2009 Exhibition Visit Location: Beijing Exhibition Center	
	18:30-20:30	Welcoming Banquet Location: Hu Nan Hall, Beijing Shiji Huatian Hotel	
Nov. 26 (Thu.)	AM 8:30-12:30	Central Garden Function Hall, Central Garden Hotel BCEIA2009 General Plenary Session Chairman: Prof. Ze ZHANG A1, B1, E1, F1, H1	
	PM 13:30-17:30	Oral Presentation Location: Permanent Garden Hall, Central Garden Hotel H2, H3, H4, H5, H6	Posters Location: 2 nd Floor of the Central Garden Hotel H28-H45, H47-H61
Nov. 27 (Fri.)	AM 8:30-11:40	Oral Presentation Location: Permanent Garden Hall, Central Garden Hotel H7, H8, H9, H10, H11, H12	
	PM 13:30-17:30	Oral Presentation Location: Permanent Garden Hall, Central Garden Hotel H13, H14, H15, H16, H17, H18, H19, H27	
Nov. 28 (Sat.)	AM 8:30-11:50	Oral Presentation Location: Permanent Garden Hall, Central Garden Hotel H20, H21, H22, H62, H23, H24, H25	
	PM	Conference Closed	

SCHEDULE OF SESSIONS

A. ELECTRON MICROSCOPY&MATERIAL SCIENCES

CHAIRMAN: Prof. Xiaodong HAN

ORAL LECTURES

Time: Nov. 26, 2009 PM (Thursday)

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

13:30-13:40 Sub-session Opening: Prof. Ze ZHANG/Prof. Hengqiang YE

Chairman: Prof. Heqiang YE

13:40-14:10 A2 STUDY OF NANOPARTICLES AND OXIDE
FERROELECTRICS BY CS CORRECTED MICROSCOPY
Jing ZHU (Keynote)
Tsinghua University ,China

14:10-14:40 A3 ADVANCED ELECTRON MICROSCOPIC
CHARACTERIZATION IN NANO-MATERIALS SCIENCE
Nobuo TANAKA (Keynote)
EcoTopia Science Institute, Nagoya University, Japan

14:40-15:00 A4 TRANSMISSION ELECTRON MICROSCOPY OF
ALUMINUM MATERIALS
Jianghua CHEN
HuNan University, China

15:00-15:20 A5 HRTEM STUDY OF DISSOCIATED THREADING
DISLOCATIONS IN EPITAXIAL Ba_{0.3}Sr_{0.7}TiO₃ THIN
FILMS OF PEROVSKITE STRUCTURE
Chaojing LU
QingDao University, China

15:20-15:40 Coffee Break & Poster session

Chairman: Prof. Van DYCK

15:40-16:10 A6 A STUDY OF STACKING FAULT OF C14 LAVES PHASE BY
ABERRATION-CORRECTED TEM
Hengqing YE (Keynote)
Metal Research Institute, CAS, China

FEMTOSECOND X-RAYS FOR BIOLOGY – INSTRUMENTS AND METHODS
 16:10-16:40 A7 **J.C.H. SPENCE** (Keynote)
 Physics Department, Arizona State University, USA

CHARGE ORDERING AND STRUCTURAL PHASE TRANSITIONS IN FERROELECTRIC $\text{LuFe}_2\text{O}_4(\text{LuFeO}_3)_n$ ($n = 0$ and 1)
 16:40-17:00 A8 **Jianqi LI**
 Institute of Physics, CAS, China

Time: Nov. 27, 2009 AM (Friday)

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

Chairman: Prof. D. SMIYH

DISCLOSING THE SECRETS OF THE EXIT WAVE
 8:30-9:00 A9 **Dirk Van DYCK** (Keynote)
 Vision Lab, University of Antwerp, Belgium

IMAGE CONTRAST AND DECONVOLUTION PROCESSING OF SPHERICAL ABERRATION-CORRECTED HIGH RESOLUTION ELECTRON MICROSCOPE IMAGES
 9:00-9:30 A10 **FangHua LI** (Keynote)
 Institute of Physics, CAS, China

HETEROSTRUCTURES STUDIED USING ABERRATION-CORRECTED ULTRAHIGH-RESOLUTION TRANSMISSION ELECTRON MICROSCOPY
 9:30-10:00 A11 **Shaobo MI** (Keynote)
 Juelich Research Center, Germany & Institute of Metal Research, CAS, China

SEVERAL STRUCTURAL FEATURES OF TWO-DIMENSIONAL Al-Co-Ni QUASICRYSTALS REVEALED BY COMBINING (S)TEM TECHNIQUE AND *AB INITIO* CALCULATION
 10:00-10:20 A12 **Jianbo WANG**
 WuHan University

10:20-10:40 **Coffee Break**

Chairman: Prof. Jing ZHU

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| | | RECENT STUDIES OF SEMICONDUCTOR
HETEROSTRUCTURES |
| 10:40-11:10 | A13 | David SMITH (Keynote)
Department of Physics, Arizona State University, USA |
| | | ELECTRONIC AND MECHANICAL COUPLING IN BENT
ZnO NANOWIRES |
| 11:10-11:40 | A14 | Dapeng YU (Keynote)
Beijing University, China |
| | | PHASE SEPARATION AT NANO-SCALE IN AMORPHOUS
Si-(B-)C-N STRUCTURE: A SPATIALLY-RESOLVED EELS
STUDY |
| 11:40-12:00 | A15 | Hui GU
Shanghai Institute of Ceramics, CAS |
| | | IN SITU HIGH-PRESSURE ELECTRON MICROSCOPY |
| 12:00-12:20 | A16 | Litao SUN
Southeast University, China |

Time: Nov. 27, 2009 PM (Friday)

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

Chairman: Prof. Qikun XUE

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| | | METHODS, EQUIPMENTS AND EXAMPLES TOWARD
ATOMIC SCALE DEFORMATION DYNAMICS (ASDS) OF
NANOWIRES AND NANOFILMS |
| 13:30-14:00 | A17 | Ze ZHANG (Keynote)
Beijing University of Technology, China |
| | | NANOSCALE IMAGING OF ELECTRIC AND MAGNETIC
FIELDS BY OFF-AXIS ELECTRON HOLOGRAPHY |
| 14:00-14:30 | A18 | M. R. MCCARTNEY (Keynote)
Department of Physics, Arizona State University |
| | | ELECTRON HOLOGRAPHY AND ITS APPLICATION TO
DEVELOPING NANOMATERIALS AND NANODEVICES |
| 14:30-15:00 | A19 | Tsukasa HIRAYAMA (Keynote)
Nanostructures Research Laboratory, Japan Fine Ceramics
Center (Japan) |

15:00-15:20 A20 IN SITU STUDY ON THE MECHANICAL AND ELECTRONIC PROPERTIES OF INDIVIDUAL THIN CARBON NANOTUBES INSIDE A SEM
Qing CHEN
 Beijing University, China

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

Chairman: Prof. Reshef TENNE

15:40-16:10 A21 SURFACE PLASMA POLYMERIZATION OF NANOPARTICLES AND NANOTUBES FOR BIOMEDICAL APPLICATIONS
Donglu SHI (Keynote)
 Department of Chemical and Materials Engineering, University of Cincinnati, USA

16:10-16:40 A22 COORDINATION EFFECTS IN THE SYNTHESIS AND ASSEMBLY OF RARE EARTH FUNCTIONAL NANOSTRUCTURES
Chunhua YAN (Keynote)
 Peking University, China

16:40-17:00 A23 1D TRANSITIONAL METAL AND COMPOUND NANOMATERIALS: SYNTHESIS, CHARACTERIZATION AND PROPERTIES
Lin GUO
 Beihang University, China

Time: Nov. 28, 2009 AM (Saturday)

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

Chairman: Prof. J. SPENCE

8:30-9:00 A24 SUPERCONDUCTIVITY IN ONE-ATOMIC-LAYER METAL FILMS
Qikun XUE (Keynote)
 Tsinghua University, China

		INORGANIC NANOTUBES (INT) AND FULLERENE-LIKE STRUCTURES (IF): PROGRESS REPORT
9:00-9:30	A25	Reshef TENNE (Keynote) Department of Materials and Interfaces, Weizmann Institute of Science, Israel
9:30-10:00	A26	CHARACTERIZING INDIVIDUAL NANOSTRUCTURES: STRUCTURE, ELECTRICAL, MECHANICAL AND OPTICAL PROPERTIES Lianmao PENG (Keynote) Peking University, China
10:00-10:20	A27	REVERSIBLE DEFORMATION MECHANISMS DISCOVERED BY USING IN SITU TEM/HREM Manling SUI Beijing University of Technology, China
10:20-10:40		Coffee Break
		Chairman: Prof. Ze ZHANG
10:40-11:00	A28	FAILURE ANALYSIS AND RELIABILITY INVESTIGATIONS BY USE OF SEM/SPM HYBRID-TECHNIQUES Balk (Keynote) University of Wuppertal, Germany
11:00-11:20	A29	STRAIN AND STRESS ANALYSIS WITH HIGH SPATIAL RESOLUTION Heiderhoff University of Wuppertal, Germany
11:20-11:40	A30	THE CRYSTALLOGRAPHIC ANALYSIS OF MARTENSITIC TRANSFORMATIONS IN HIGH MANGANESE TRIP/TWIP STEELS BY EBSD TECHNIQUES Ping YANG Beijing University of Science & Technology, China
11:40-12:00	A31	EBSD INVESTIGATION OF TENSILE-COMPRESSIVE UNSYMMETRICAL ELASTIC- PLASTIC TRANSFORMATION BY IN -SITU EXPERIMENTS INSIDE SEM Xiaodong HAN Beijing University of Technology, China
12:00		Closing: Prof. Ze ZHANG/Prof. Hengqiang YE

POSTER SESSION

Time: Nov. 26, 2009 PM (Thursday) 15:00-17:00

Location: 2nd Floor of the Central Garden Hotel

- A32 MECHANISM OF THE FORMATION OF ZN NANOCRYSTALS IN MN IMPLANTED ZNO
Yong WANG¹, Jin ZOU¹, Yajun LI², Bo ZHANG², and Wei LU²
- A33 MICROSTRUCTURE AND MARTENSITIC TRANSFORMATION OF FERROMAGNETIC SHAPE-MEMORY ALLOY Mn₅₀Ni₄₀Sn₁₀ STUDIED VIA TRANSMISSION ELECTRON MICROSCOPY
Jiangbo LU, Huaixin YANG, Huanfang TIAN, Li MA, Guangheng WU and Jianqi LI
- A34 ELECTRON ENERGY LOSS SPECTROSCOPY STUDY ON PHASE TRANSITION OF GeTe
Ning YAN¹, Xiaodong HAN², Ze ZHANG^{1,2}
- A35 EFFECTS OF Si IN Si_xSb₂Te₃ FILMS FOR C-RAM
Yan CHENG¹, Qifei GONG², Xiaodong HAN^{1*}, Ze ZHANG¹, Ting ZHANG³, Zhitang SONG³, Bo LIU³, Songlin FENG³
- A36 IN SITU ATOMIC SCALE OBSERVATION OF DEFORMATION PROCESS IN NANOCRYSTALLINE NICKEL
Shuren HU, Pan LIU, Qingsong DENG, Bin WEI, Xiaodong HAN*, Lihua WANG, Yonghai YUE and Ze ZHANG
- A37 IN SITU ATOMIC SCALE INVESTIGATION OF CRACK PROPAGATION IN NANOCRYSTALLINE GOLD THIN FILMS
Pan LIU, Xiaodong HAN*, Shengcheng MAO, Yuefei ZHANG, Lihua WANG, and Ze ZHANG*
- A38 MECHANICAL BEHAVIOR OF COPPER NANOCRYSTALLINE FILM UNDER UNIAXIAL TENSION
Yonghai YUE, Xiaodong HAN*, Pan LIU and Ze ZHANG
- A39 THE STRUCTURE OF NANO-CRYSTAL INDUCED BY ELECTRON-BEAM IN Si₂Sb₂Te₅ FILMS
Lei ZHANG¹, Xiao-dong HAN¹, Yan CHENG¹ and Ze ZHANG¹ Ting ZHANG², Bo LIU², Zhi-tang SONG² and Song-lin FENG²
- A40 STRUCTURAL EVOLVEMENT OF BENDING Si NANOWIRES

Kun ZHENG, Xiaodong HAN* and Ze ZHANG

- A41 TENSILE DUCTILE OF NANO-PILLAR METALLIC GLASS
Qingsong DENG, Lei ZHANG, Bin WEI, Pan LIU, Yonghai YUE,
Xiaodong HAN* and Ze ZHANG
- A42 IN SITU ATOMIC SCALE INVESTIGATION OF DISLOCATION
NUCLEATION AND ESCAPE IN ULTRA-FINE GRAINED
PLATINUM THIN FILMS
Lihua WANG, Xiaodong HAN*, Pan LIU, Yonghai Yue and Ze ZHANG
- A43 A COMPARISON OF CHARGE COMPENSATING METHODS VIA
VAPOR, OXYGEN AND HEATING ENVIRONMENTS IN ESEM
Yuan JI, Li WANG, Yinqi ZHANG and Bin WEI
- A44 AN IN-SITU HEATING EBSD STUDY OF A FOLDED STAINLESS
STEEL SAMPLE
H S UBHI¹, D TATHAM², H JAZAERI¹, H JIANG¹, S HANT¹
- A45 PERFORMANCE CHARACTERISTICS OF A SILICON DRIFT
DETECTOR FOR USE IN ANALYTICAL TRANSMISSION
ELECTRON MICROSCOPY
N. ROWLANDS¹, M. Q. CHU², I. P. JONES², S. BHADARE¹ and H.
JIAO¹
- A46 PHASE IDENTIFICATION ANALYSIS OF ADDITIVES AND
COMPOSITES IN POLYETHYLENE POWDER BY XRD
Ruifeng LI¹, Jianzhong LI¹, Xi CAO², Xiang LI³ and Yajing WANG⁴
- A47 THE SYNTHESIS AND STRUCTURAL CHARACTERIZATION OF
WATER-SOLUBLE L-CYSTINE CARBON MICROSPHERES
DERIVATIVES
Hongwei ZHANG, Xueying ZHANG, Xiaomin WANG

SCHEDULE OF SESSIONS
B. MASS SPECTROMETRY
CHAIRMAN: Prof. Zeper ABLIZ

ORAL LECTURES

Time: Nov. 26, 2009 PM (Thursday)

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

Chairman: Prof. Shuying LIU and Prof. Joseph A. LOO

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| 14:00-14:30 | B2 | MASS SPECTROMETERS FOR EARTH AND MARS
Robert J. COTTER (Keynote)
School of Medicine, Johns Hopkins University, USA |
| 14:30-14:50 | B3 | ISOLATION AND IDENTIFICATION OF METABOLITES OF ICOTINIB IN HEALTHY MALE SUBJECTS WITH LIQUID CHROMATOGRAPHY COUPLED TO HYBRID QUADRUPOLE TIME-OF-FLIGHT MASS SPECTROMETRY
Pei HU
Clinical Pharmacology Research Center, Peking Union Medical College Hospital, Chinese Academy of Medical Sciences & Peking Union Medical College, China |
| 14:50-15:10 | B4 | PROBING PROTEIN INTERACTIONS: NATIVE MASS SPECTROMETRY AND HYDROGEN EXCHANGE
Zhongping YAO
Department of Applied Biology and Chemical Technology, The Hong Kong Polytechnic University, Hong Kong, China |
| 15:10-15:40 | B5 | AGE OF ZIRCONS IN THE IMPACT-MELT BRECCIA IN SAU 169 LUNAR METEORITE
Dunyi LIU (Keynote)
Institute of Geology, Chinese Academy of Geological Sciences, China |
| 15:40-15:50 | | Coffee Break |
| 15:50-16:20 | B6 | A NEW PERSPECTIVE OF O-GLYCOPROTEOMICS
Yoshinao WADA (Keynote)
Osaka Medical Center and Research Institute for Maternal and Child Health, Japan |

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| 16:20-16:40 | B7 | <p>DISTINCTION OF THE POSITIONAL ISOMERS IN S-METHYL METHOXYLBENZENYLMETHYLENEHYDRAZINE DITHIOCARBOXYLATE BY MASS SPECTROMETRY</p> <p>Yuanjiang PAN</p> <p>Department of Chemistry, Zhejiang University, China</p> |
| 16:40-17:10 | B8 | <p>RECENT ADVANCES IN HYBRID QUADRUPOLE/ LINEAR ION TRAP MASS SPECTROMETRY</p> <p>James HAGER (Keynote)</p> <p>MDS Analytical Technologies, Canada</p> |
| 17:10-17:40 | B9 | <p>DEVELOPMENT OF AN ANALYTICAL METHOD FOR ANALYSIS OF DISULFIDE BONDS IN PROTEINS/PEPTIDES BY MATRIX-ASSISTED LASER DESORPTION/IONIZATION (MALDI) MASS SPECTROMETRY</p> <p>Shuying LIU (Keynote)</p> <p>Changchun Institute of Applied Chemistry, Chinese Academy of Science, China</p> |

Time: Nov. 27, 2009 AM (Friday)

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

Chairman: Prof. Yoshinao WADA and Prof. Liang LI

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| 8:30-9:00 | B10 | <p>TOP-DOWN MASS SPECTROMETRY FOR DETERMINING LIGAND BINDING SITES IN PROTEIN COMPLEXES</p> <p>Joseph A. LOO (Keynote)</p> <p>Department of Biological Chemistry, University of California-Los Angeles, USA</p> |
| 9:00-9:20 | B11 | <p>USING DRIED BLOOD SPOTS IN COMBINATION WITH UHPLC AND ENHANCED ION GENERATION ESI TO STREAMLINE PHARMACOKINETIC ASSAYS</p> <p>Herbert GODEL</p> <p>Agilent Technologies R&D and Marketing GmbH & Co KG, Germany</p> |
| 9:20-9:40 | B12 | <p>CHARACTERIZATION OF CONFORMATIONAL CHANGES AND NONCOVALENT COMPLEXES OF MYOGLOBIN BY ELECTROSPRAY IONIZATION MASS SPECTROMETRY</p> <p>Xian WANG</p> <p>College of Chemistry and Materials Science, South-Central University for Nationalities, China</p> |

DEVELOPMENT OF LC/MS METHODS FOR QUANTITATIVE
METABOLOME PROFILING

9:40-10:10 B13 **Liang LI** (Keynote)
Department of Chemistry, University of Alberta, Canada

10:10-10:20

Coffee Break

A POST-COLUMN DEVICE FOR SIGNAL IMPROVEMENT IN
NONVOLATILE BUFFER CE-MS, MEKC-MS AND LC-MS USING
TFA CONTAINING MOBILE PHASE

10:20-10:50 B14 **Guor-Rong HER** (Keynote)
Chemistry Department, National Taiwan University, Taiwan, Chinese
Taipei

NEW DEVELOPMENTS IN FOOD SAFETY AND
ENVIRONMENTAL ANALYSIS USING THERMO LC-MS/MS

10:50-11:10 B15 **Louis MALJERS**
Thermo Fisher Scientific, San Jose, USA

IDENTIFICATION AND CHARACTERIZATION OF RELATED
IMPURITIES IN SOME BULK DRUG WITH HIGH CLINIC RISK BY
HPLC-UV/FTICRMS

11:10-11:30 B16 **Jinlan ZHANG**
Institute of Materia Medica, Chinese Academy of Medical Sciences &
Peking Union Medical College, China

MASS SPECTROMETRY BASED STRUCTURE ANALYSIS FOR
GLYCOPROTEOMICS

11:30-12:00 B17 **Pengyuan YANG** (Keynote)
Fudan University, China

Time: Nov. 27, 2009 PM (Friday)

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

Chairman: Prof. Guor-Rong HER and Prof. Zongwei CAI

INVESTIGATION ON DNA ADDUCTS OF ARISTOLOCHIC ACIDS
IN RAT ASSOCIATED WITH KIDNEY DISEASE

13:30-14:00 B18 **Zongwei CAI** (Keynote)
Department of Chemistry, Hong Kong Baptist University, China

NEW PARADIGMS OF MAGIC NUMBER CLUSTERS REVEALED
BY MASS SPECTROMETRY
Hai LUO

14:00-14:20 B19

Beijing National Laboratory for Molecular Sciences, Peking University,
China

ALTERNATIVE LC COLUMNS FOR HYDROPHILIC COMPOUNDS
FOR BETTER DETECTION AND SEPARATION IN LC/MS

14:20-14:40 B20 **Shirota OSAMU**
Shiseido Co., Ltd., Tokyo, Japan

THE EMERGING ROLE OF ICP-MS IN QUANTITATIVE
PROTEOMICS

14:40-15:10 B21 **Jorge Ruíz ENCINAR** (Keynote)
Department of Physical and Analytical Chemistry, University of Oviedo,
Spain

15:10-15:20 **Coffee Break**

DEVELOPMENT OF A LOW-TEMPERATURE PLASMA PROBE FOR
IMAGING MASS SPECTROMETRY

15:20-15:50 B22 **Xinrong ZHANG** (Keynote)
Tsinghua University, China

TANDEM MASS SPECTROMETRIC STUDY OF REACTIV
EINTERMEDIATES IN ORGANIC REACTIONS

15:50-16:10 B23 **Haoyang WANG**
Shanghai Mass Spectrometry Center, Shanghai Institute of Organic
Chemistry, Chinese Academy of Science, China

MULTI-TARGET SCREENING OF UP TO 650 PESTICIDES IN A
SINGLE LC/MS RUN BY EXACT MASS ION TRACES

16:10-16:30 B24 **Hank WANG**
Bruker Daltonics, Inc. (Beijing), China

DIRECT OBSERVATION OF MULTINARY COMPLEXES USING
ELECTROSPRAY IONIZATION MASS SPECTROMETRY

16:30-16:50 B25 **Zhili LI**
Institute of Basic Medical Sciences, Chinese Academy of Medical
Sciences and School of Basic Medicine, Peking Union Medical College,
China

RAPID DETECTION, IDENTIFICATION AND CHARACTERIZATION
OF MICROORGANISMS BY ESI TOF MS

16:50-17:20 B26 **Shida SHEN** (Keynote)
Analytica of Branford, Inc., USA

Time: Nov. 28, 2009 AM (Saturday)

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

Chairman: Prof. Shida SHEN and Prof. Huanwen CHEN

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| | | EXTRACTIVE IONIZATION AT AMBIENT CONDITIONS
Huanwen CHEN (Keynote) |
| 8:30-9:00 | B27 | Department of Applied Chemistry, East China Institute of Technology, China |
| | | COUPLING CHEMICAL CLEAVAGE WITH HPLC FRACTIONATION FOR ANALYSIS OF HYDROPHOBIC PELLETS AND FATTY ACYL MODIFICATIONS |
| 9:00-9:20 | B28 | Hongying ZHONG
College of Chemistry, Central China Normal University, China |
| | | RRLC-MS/MS BASED METABONOMICS APPROACHES FOR BREAST CANCER AND UTERINE CERVIX CANCER |
| 9:20-9:40 | B29 | Yanhua CHEN
Institute of Materia Medica, Chinese Academy of Medical Sciences & Peking Union Medical College, China |
| | | ULTRAHIGH-MASS MASS SPECTROMETRY OF SINGLE BIOPARTICLES |
| 9:40-10:10 | B30 | Zongxiu NIE (Keynote)
Institute of Chemistry, Chinese Academy of Sciences, China |
| 10:10-10:20 | | Coffee Break |
| | | DIRECT ANALYSIS OF SAMPLES FROM SURFACE USING A DESORPTION CORONA BEAM IONIZATION SOURCE |
| 10:20-10:40 | B31 | Wenjian SUN
Shimadzu Research Laboratory (Shanghai) Co., Ltd., China |
| | | SCREENING AND STRUCTURAL CHARACTERIZATION OF NEURAMINIDASE INHIBITORS BY ULTRAFILTRATION LIQUID CHROMATOGRAPHY-TANDEM MASS SPECTROMETRY |
| 10:40-11:00 | B32 | Shu LIU
Changchun Institute of Applied Chemistry, Chinese Academy of Science, China |
| | | NEW OPPORTUNITIES WITH TUNEABLE SYNCHROTRON VUV PHOTOIONIZATION MASS SPECTROMETRY |
| 11:00-11:30 | B33 | Fei QI (Keynote)
National Synchrotron Radiation Laboratory, University of Science and Technology of China, China |

POSTER SESSION

Time: Nov. 28, 2009 AM (Saturday)

Location: 2nd Floor of the Central Garden Hotel

- B34 IMPROVE THE SENSITIVITY OF GAS CHROMATOGRAPHY USING MULTIMODE INLET
Wei LUAN and Mike SZELEWSKI
- B35 SCREENING, CONFIRMATION AND QUANTIZATION BETA AGONISTS RESIDUES IN THE MILK USING 1200 RRLC-6460 TANDEM MASS SPECTROMETRY
Jianzhong LI, Yanyan FANG, Jerry ZWEIGENBAUM
- B36 LOW PPB-LEVEL 175 PESTICIDES SCREENING IN TRADITIONAL CHINESE MEDICINE AND TEA USING THE AGILENT 7000A GC/MS/MS WITH BACKFLUSH
Wei Luan, Chin-kai MENG, Phil WYLIE and Mike SZELEWSKI
- B37 FINGERPRINTING HUMAN KIDNEY STONE SAMPLES AT MOLECULAR LEVELS USING SURFACE DESORPTION ATMOSPHEREIC PRESSURE CHEMICAL IONIZATION MASS SPECTROMETRY
Bin JIA, Bin HU, Zhongchen WU, Tingting ZHANG and Huanwen CHEN
- B38 DIRECT ANALYSIS OF DRIED SEA CUCUMBER PRODUCTS FROM DIFFERENT GEOGRAPHICAL AREAS USING SURFACE DESORPTION ATMOSPHERIC PRESSURE CHEMICAL IONIZATION MASS SPECTROMETRY
Zhongchen WU, Lilin SHI, Bin JIA, Jianhua DING and Huanwen CHEN
- B39 EXTRACTIVE ELECTROSPRAY IONIZATION MASS SPECTROMETRY FOR IDENTIFICATION OF CHEESE PRODUCTS
Zhongchen WU, Konstantin CHINGIN, Huanwen CHEN, Liang ZHU, Bin JIA and Renato ZENOBI
- B40 COMPARATIVE ANALYSIS OF REPRESENTATIVE COMPOUNDS ASSOCIATED WITH METABONOMICS USING MULTIPLE IONIZATION MASS SPECTROMETRY
Zhuoling AN, Ruiping ZHANG, Yanhua CHEN, Jianghao SUN, Jiuming HE, Jinfa BAI and Zeper ABLIZ
- B41 IDENTIFICATION OF METABOLITES IN RAT PLASMA AFTER

- INTRAVENOUS AND ORAL ADMINISTRATION OF AN ACTIVE EXTRACT OF *GYMNADENIA CONOPSEA* BY RRLC-MS/MS
Jian LIU, Ruiping ZHANG, Jiuming HE, Jiangong SHI, Jianjun ZHANG and Zeper ABLIZ
- B42 AMBIENT ION/MOLECULE REACTIONS FOR THE SELECTIVE *IN VIVO* DETECTION OF ACETONITRILE IN THE EXHALED GAS USING EXTRACTIVE ELECTROSPRAY IONIZATION MASS SPECTROMETRY
Jianghua DING, Yanhong HUANG, Jianqiang LI and Huanwen CHEN
- B43 HIGHLY CHARGED PROTEIN IONS GENERATED BY EXTRACTIVE ATMOSPHERIC PRESSURE CHEMICAL IONIZATION MASS SPECTROMETRY
Bin HU, Jing HAN, Shuiping YANG, Jianqiang Li and Huanwen CHEN
- B44 RAPID ANALYSIS OF AEROSOL DRUG PREPARATIONS USING NANO EXTRACTIVE ELECTROSPRAY IONIZATION TANDEM MASS SPECTROMETRY
Bin HU, Shuiping YANG, Xinglei ZHANG, Jianqiang LI and Huanwen CHEN
- B45 MOLECULAR IMAGING BY SURFACE DESORPTION ATMOSPHERIC PRESSURE CHEMICAL IONIZATION MASS SPECTROMETRY
Liying DING, Shuiping YANG, Bin HU and Huanwen CHEN
- B46 DETERMINATION OF n-BUTYLPHthalide IN RAT LIVER MICROSOMAL INCUBATION MIXTURES BY HIGH PERFORMANCE LIQUID CHROMATOGRAPHY-TANDEM MASS SPECTROMETRY
Qian ZHAO, Ji JIANG and Pei HU
- B47 OBSERVATIONS OF PLASMA ARGININE, ADMA AND SDMA CONCENTRATIONS IN RELATION TO RENAL FUNCTION IN BURN PATIENTS BY LC-MS
Hongyun WANG, Ji JIANG, Pei HU, Yongming YU and Ronald G. TOMPKINS
- B48 ANALYSIS OF ENDOGENOUS ESTROGEN METABOLITES IN HUMAN URINE USING HPLC-MS/MS METHOD
Jiang HUANG, Jianghao SUN, Yongmei SONG, Yanhua CHEN, Ruiping ZHANG, Qimin ZHAN and Zeper ABLIZ

- B49 FRAGMENTATION PATHWAYS OF LITHIATED α , β -UNSATURATED THIOESTERS IN MASS SPECTROMETRY
Cheng GUO, Kezhi JIANG and Yuanjiang PAN
- B50 DIELECTRIC CONSTANT DETERMINATION IN FORMING M^{++} AND $[M+H]^+$ IN ESI WHEN DIFFERENT SOLVENTS APPLIED
Shengjun YAO, Haoyang WANG, Zhe XU, Jing ZHOU and Yinlong GUO
- B51 DETERMINATION OF β -LACTAMASES RESIDUES IN MILK USING MATRIX-ASSISTED LASER DESORPTION/IONIZATION FOURIER TRANSFORM MASS SPECTROMETRY
Zhe XU, Haoyang WANG, Yuanlong WEI, Shengjun YAO and Yinlong GUO
- B52 IDENTIFICATION OF CONSTITUENTS ABSORBED INTO RAT PLASMA AFTER ORAL ADMINISTRATION OF RHIZOMA CHUANXIONG DECONTION BY HPLC-ESI-MS/MS
Aihua ZUO, Li WANG, Hongbin XIAO, Limin LI and Yuhong LIU
- B53 STUDIES ON THE VOLATILE COMPONENTS OF DARK GREEN TEA BY GC/MS
Dongyan HOU, Ruihua HUI, Tiechun LI and Xiaoyuan LIU
- B54 STUDIES OF HPLC/ESI-MS^N ON THE ACONITINE-TYPE ALKALOIDS IN THREE CHINESE MEDICINAL HERBS
Wenlong LIU, Fengrui SONG, Zhiqiang LIU and Shuying LIU
- B55 STUDIES ON THE HOMOLYTIC AND HETEROLYTIC CLEAVAGE OF KAEMPFEROL AND KAEMPFERIDE GLYCOSIDES USING ELCTROSPRAY IONIZATION TANDEM MASS SPECTROMETRY
Lin LU, Ying SHI, Fengrui SONG, Zhiqiang LIU, Shuying LIU and Yongri JIN
- B56 PROTEMOME ALTERATIONS IN IRRADIATED JURKAT CELLS
Ying SHI, Ning LIU, Fengrui SONG, Shuying LIU and Zhiqiang LIU
- B57 STUDIES ON THE INTERACTIONS OF ORGANOMETALLIC RUTHENIUM ANTICANCER COMPLEXES WITH G-QUADRUPLEX BY HPLC AND MS
Kui WU, Wenbing HU, Qun LUO, Shaoxiang XIONG and Fuyi WANG
- B58 STUDY ON INTERACTIONS BETWEEN ANTICANCER DRUG CISPLATIN AND HUMAN SERUM ALBUMIN
Wenbing HU, Kui WU, Shaoxiang XIONG and Fuyi WANG

- B59 SURFACE DESORPTION ATMOSPHERIC PRESSURE CHEMICAL IONIZATION SOURCE AND TECHNIQUE
Jianqiang LI, Xie ZHANG, Zhuanzhang WU and Huanwen CHEN
- B60 QUANTIFICATION OF A NEW ANTITUMOR AGENT ICOTINIB IN RAT MICROSOMAL INCUBATIONS USING LIQUID CHROMATOGRAPHY/TANDEM MASS SPECTROMETRY
Xin ZHENG, Qian ZHAO, Ji JIANG and Pei HU
- B61 ANALYSIS OF ORGANIC MOLECULES BY IR LASER DESORPTION/TUNABLE SYNCHROTRON VUV PHOTOIONIZATION MASS SPECTROMETRY
Yang PAN, Huijun GUO and Fei QI
- B62 INSIGHT INTO COMBUSTION CHEMISTRY USING SYNCHROTRON VUV PHOTOIONIZATION MASS SPECTROMETRY
Yuyang LI, Tao YUAN, Kuiwen ZHANG, Jiuzhong YANG and Fei QI
- B63 LOW TEMPERATURE PLASMA DIAGNOSTICS WITH SYNCHROTRON VACUUM ULTRAVIOLET PHOTOIONIZATION MASS SPECTROMETRY Zhongyue ZHOU, Mingfeng XIE and Fei QI
- B64 TITANIUM DIOXIDE FOR SIALYLATED GLYCOPEPTIDE ENRICHMENT FROM PEPTIDE MIXTURES
Wenjing WANG, Hui LIU, Ling XIN and Zhili LI
- B65 EFFECTIVE AND FAST ENRICHMENT OF GLYCOPEPTIDES USING AN ECONOMICAL ZIPTIP MICROCOLUMN
Ling XIN, Haijing ZHANG, Hui LIU and Zhili LI
- B66 TWO-DIMENSIONAL NATIVE/SDS PAGE ANALYSIS REVEALS DIFFERENT PROTEIN COMPLEXES FROM TWO PANCREATIC CANCER CELL LINES
Zhiyun ZHAO, Xiaodong WANG, Guoqiang CHEN and Zhili LI
- B67 DETERMINATION OF ATRAZINE AND ITS METABOLITES IN SOIL BY UPLC-MS/MS
Jing MA, Yue GENG, Hong GUO, Chuanjiang TAO, Kefan YAN and Chongjiu LI
- B68 PYROLYSIS – GAS CHROMATOGRAPHY / MASS SPECTROMETRY IN THE THERMAL DEGRADATION STUDIES OF POLYCARBONATE
Xia GAO, Wei ZHANG and Jinghua ZHANG

- B69 DEVELOPMENT OF SOLUTION LOW-TEMPERATURE PLASMA PROBE AND ITS APPLICATIONS IN DIRECT AMBIENT SAMPLE ANALYSIS
Xiaoxiao MA, Yueying LIU, Chengdui YANG, Sichun ZHANG and Xinrong ZHANG
- B70 DEVELOPMENT OF A LOW-TEMPERATURE PLASMA PROBE FOR IMAGING MASS SPECTROMETRY
Xiaoxiao MA, Yueying LIU, Chengdui YANG, Zhi XING, Sichun ZHANG and Xinrong ZHANG
- B71 NANO-ELECTROSPRAY IONIZATION MASS SPECTROMETRY BASED ON DIELECTRIC BARRIER DISCHARGE
Ziqing LIN, Xiaoxiao MA, Yueying LIU, Chengdui YANG, Sichun ZHANG and Xinrong ZHANG
- B72 DEVELOPMENT OF MICROPLASMA PROBE FOR NON-DESTRUCTIVE IDENTIFICATION OF CALLIGRAPHIES BY MASS SPECTROMETRY IMAGING
Yueying LIU, Xiaoxiao MA, Ziqing Lin, Chengdui YANG, Zhi XING, Sichun ZHANG and Xinrong ZHANG
- B73 IDENTIFICATION AND CHARACTERIZATION OF 12 RELATED IMPURITIES IN METHOTREXATE BULK DRUG BY HPLC-UV/FTICRMS
Caisheng WU, Yuanfeng TONG, Pengyuan WANG, Wu SONG, Jinlan ZHANG
- B74 ANALYSIS OF RELATED IMPURITIES IN SODIUM TANSINONE II A SULFONATE BY HPLC-ESI-MSⁿ
Yuxin SHENG, Yuanfeng TONG, Wu SONG, Jinlan ZHANG
- B75 HOW TO IMPROVE THE METABOLITE IDENTIFICATION PROCESS WITH EFFICIENCY AND SPEED
Hongjian JIANG, Guiping ZHAO
- B76 DETERMINATION OF SHELLFISH POISONING TOXINS BY HIGH PERFORMANCE LIQUID CHROMATOGRAPHY-ELECTROSPRAY TANDEM QUADRUPOLE MASS SPECTROMETRY
Guiping ZHAO, Hongjian JIANG, Dan LI

SCHEDULE OF SESSIONS

C. OPTICAL SPECTROSCOPY

CHAIRMAN: Prof. Xinrong ZHANG

ORAL LECTURES

Time: Nov. 26, 2009 PM (Thursday)

Location: Bright Garden Hall, Central Garden Hotel

Chairman: Prof. Joachim FRANZKE and Prof. Xiandeng HOU

14:00-14:30	C2	COMBINATION OF IMAGING BY LASER ABLATION ICP-MS AND DETECTION OF ELEMENT-TAGGED ANTIBODIES FOR APPLICATION IN WESTERN BLOT ASSAYS Norbert JAKUBOWSKI BAM-Federal Institute for Materials Research and Testing, Richard- Willstaetter-Str. 11, D-12489 Berlin, Germany
14:30-4:50	C3	INTERACTION BETWEEN MERCURIAL AND BIOMOLECULE AND ITS POTENTIAL APPLICATION TO BIOMOLECULAR QUANTIFICATION Qiuquan WANG Department of Chemistry & Key Laboratory of Analytical Sciences, College of Chemistry and Chemical Engineering, Xiamen University
14:50-15:20	C4	DEVELOPMENT OF RADIO FREQUENCY DIRECT DISCHARGE HELIUM PLASMA INDUCED ATOMIC EMISSION DETECTOR FOR GAS CHROMATOGRAPHY Katsumi UCHIYAMA Department of Applied Chemistry, Graduate School of Urban Environmental Sciences, Tokyo Metropolitan University, Minamiohsawa Hachioji, Tokyo 192-0397, Japan
15:20-15:40	C5	RECENT DEVELOPMENTS IN DIELECTRIC BARRIER DISCHARGE-BASED MINIATURE ATOMIC SPECTROMETRY Jianhua WANG Research Center for Analytical Sciences, Northeastern University, Shenyang 110004, China
15:40-16:00		Coffee Break

Chairman: Prof. Norbert Jakubowski and Prof. Qiuquan WANG

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| 16:00-16:30 | C6 | TOXIC AND ESSENTIAL ARSENIC: HINTS FROM SPECIATION ANALYSIS WITH MASS SPECTROMETRY
Kevin A. FRANCESCONI
Karl-Franzens University Graz (Uni-Graz), Institute of Chemistry, 8010 Graz, Austria |
| 16:30-16:50 | C7 | UV PHOTOCHEMICAL VAPOR GENERATION FOR SAMPLE INTRODUCTION TO ANALYTICAL ATOMIC SPECTROMETERS
Xiandeng HOU
College of Chemistry, Sichuan University, Chengdu, Sichuan, 610064, P. R. China |
| 16:50-17:20 | C8 | CHARACTERIZATION OF A CAPILLARY DIELECTRIC BARRIER PLASMA JET FOR USE AS A SOFT IONIZATION SOURCE BY OPTICAL EMISSION AND ION MOBILITY SPECTROMETRY
Joachim FRANZKE
ISAS - Institute for Analytical Sciences, Bunsen-Kirchhoff-Str. 11, 44139 -Dortmund, Germany |
| 17:20-17:40 | C9 | CHROMATOGRAPHY HYPHENATED WITH INDUCTIVELY COUPLED PLASMA MASS SPECTROMETRY FOR ELEMENTAL SPECIATION
Bin HU
Department of Chemistry, Wuhan University, Wuhan 430072, China |

Time: Nov. 27, 2009 AM (Friday)

Location: Bright Garden Hall, Central Garden Hotel

Chairman: Prof. Yunbao JIANG

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| 8:30-9:00 | C10 | LABEL-FREE APTAMER-BASED SENSOR BASED ON ABASIC SITE-CONTAINING DNA
Norio TERAMAE
Department of Chemistry, Graduate School of Science, Tohoku University, Aoba-ku, Sendai 980-8578, Japan |
| 9:00-9:20 | C11 | IMMUNOMAGNETIC SEPARATION AND RAPID DETECTION OF BACTERIA USING BIOLUMINESCENCE AND MICROFLUIDICS
Jinming LIN
Department of Chemistry, Tsinghua University, Beijing 100084, China |

		MULTIMODAL IMAGING OF METALLIC NANODEPOSITS IN YEAST
9:20-9:50	C12	Zoltan MESTER Institute for National Measurement Standards, National Research Council, Ottawa, ON, Canada
		A RUTHENIUM(II) COMPLEX-BASED LUMINESCENT PROBE FOR IMAGING NITRIC OXIDE PRODUCTION IN LIVING CELLS
9:50-10:10	C13	Jingli YUAN State Key Laboratory of Fine Chemicals, Department of Chemistry, Dalian University of Technology, Dalian 116012, P.R. China
10:10-10:30	Coffee Break & Poster Session	
Chairman: Prof. Norio TERAMAE and Prof. Huimin MA		
		FLUORESCENT PROBES: POTENTIAL INDICATORS FOR REDOX EQUILIBRIUM AND ACID-ALKALINE EQUILIBRIUM IN LIVING CELLS
10:30-10:50	C14	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
		EVOLVED GAS ANALYSIS INSTRUMENTATION WITH SKIMMER INTERFACE AND ION ATTACHMENT IONIZATION TECHNIQUE FOR MASS SPECTROMETRY
10:50-11:20	C15	Takahisa TSUGOSHI National Institute of Advanced Industrial Science and Technology (AIST), AIST Central 3, 1-1-1 Umezono, Tsukuba 305-8563, Japan.
		POLYCYCLIC AROMATIC HYDROCARBONS AND METABOLITES: DETERMINATION METHODS, ATMOSPHERIC BEHAVIOR AND HUMAN EXPOSURE IN EAST ASIA
11:20-11:50	C16	Kazuichi HAYAKAWA Institute of Medical, Pharmaceutical and Health Sciences, Kanazawa University, Kakuma-machi, Kanazawa 920-1192, Japan
		Trevorrow PAUL
11:50-12:10	C17	Editor of Luminescence

Time: Nov. 27, 2009 PM (Friday)

Location: Bright Garden Hall, Central Garden Hotel

Chairman: Prof. Weijun JIN and Prof. Jingli YUAN

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| | | ONE-DIMENSIONAL NANOARCHITECTURES:
SYNTHESIS, ASSEMBLY, AND OPTICAL
APPLICATIONS
Chengzhi HUANG
Education Ministry Key Laboratory on Luminescence and
Real-Time Analysis, College of Pharmaceutical Sciences,
Southwest University, Chongqing 400715, China |
| 13:30-13:50 | C18 | |
| | | SYNTHESIS AND DEVELOPMENT OF CHEMOSENSORS
AND BIOSENSORS BASED ON QUANTUM DOTS
Zhike HE
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 |
| 13:50-14:10 | C19 | |
| | | NOVEL SPECTROFLUORIMETRIC APPROACHES FOR
RAPID AND DIFFERENTIAL ANALYSIS OF
PORPHYRINS IN HUMAN BODY FLUIDS
Yaoqun LI
Department of Chemistry and Key Laboratory of Analytical
Sciences, College of Chemistry and Chemical Engineering,
Xiamen University, Xiamen, 361005, China |
| 14:10-14:30 | C20 | |
| | | A FLOW SONOCHEMILUMINESCENCE DESIGN FOR
ANTIOXIDANT CAPACITY EVALUATION
Jiagen LV
Key Laboratory of Analytical Chemistry for Life Science of
Shaanxi Province, Shaanxi Normal University, Xi'an, China,
710062 |
| 14:30-14:50 | C21 | |
| | | COORDINATE AND ELECTROSTATIC GOVERNING OF
THE FRET IN SINGLE BROADENED SIZE
DISTRIBUTION QUANTUM DOTS SAMPLES FOR
SENSING APPLICATIONS
Changqing ZHU
Anhui Key Laboratory of Chemo-Biosensing, College of
Chemistry and Materials Science, Anhui Normal University,
Wuhu, 241000, P. R. China |
| 14:50-15:10 | C22 | |
| 15:10-15:40 | | Coffee Break & Poster Session |

Chairman: Prof. Chengzhi HUANG and Prof. Zhike HE

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| 15:40-16:00 | C23 | CHEMILUMINESCENCE SENSOR FOR PESTICIDE CHLORPYRIFOS BASED ON MOLECULARLY IMPRINTED MICROSPHERES AS SELECTIVE SORBENTS
Zhongping ZHANG
Institute of Intelligent Machines, Chinese Academy of Sciences, Hefei, Anhui 230031, China |
| 16:00-16:20 | C24 | PICK UP TICT AGAIN: TOWARD EXPLORING THE NATURE OF THE SPECIFIC EFFECT OF HALOGENATED SOLVENTS
Weijun JIN
College of Chemistry, Beijing Normal University, Beijing 100875, China |
| 16:20-16:40 | C25 | A NOVEL METHOD FOR AGE DETERMINATION OF FISH BASED ON THE ELEMENT DISTRIBUTION OF OTOLITH BY LASER ABLATION INDUCTIVELY COUPLED PLASMA MASS SPECTROMETRY
Shenghong HU
Key Laboratory of Biogeology and Environmental Geology of Ministry of Education, China University of Geosciences, Wuhan 430074, China |
| 16:40-17:00 | C26 | NOVEL Mn_3O_4 MICRO-OCTAHEDRA: PROMISING CATALUMINESCENCE SENSING MATERIAL FOR ACETONE
Yi LV
Key Laboratory of Green Chemistry & Technology, Ministry of Education; College of Chemistry, Sichuan University, Chengdu, Sichuan 610064, China |
| 17:00-17:20 | C27 | AQUEOUS SYNTHESIS OF NANOPARTICLES AND ITS BIOMEDICAL APPLICATIONS
Xingguang SU
Department of Analytical Chemistry, College of Chemistry, Jilin University, Changchun, 130012, China |
| 17:20-17:40 | C28 | ThermoFisher Scientific |
| 17:40-18:00 | C29 | Niamh O'Connor
MRSC, Editor, Analyst, Royal Society of Chemistry |

Time: Nov. 28, 2009 AM (Saturday)

Location: Bright Garden Hall, Central Garden Hotel

Chairman: Prof. Jinming LIN and Prof. Zhengping LI

8:30-8:50	C30	NEW STRATEGIES FOR DESIGNING NUCLEIC ACID-BASED PROBES Ronghua YANG College of Chemistry and Molecular Engineering, Peking University, Beijing 100871, and State Key Laboratory of Chemo/Biosensing and Chemometrics, College of Chemistry and Chemical Engineering, Hunan University, Changsha
8:50-9:10	C31	ISOTHERMAL AMPLIFICATION FOR HIGHLY SENSITIVE DETECTION OF MICRORNA 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
9:10-9:30	C32	DEVELOPMENT OF NOVEL FLUORESCENT SENSING MOLECULES WITH AGGREGATION-INDUCED EMISSION ENHANCEMENT (AIEE) CHARACTERISTICS Aijun TONG Department of Chemistry, Tsinghua University, Beijing 100084, China
9:30-9:50	C33	LABEL-FREE AND HOMOGENEOUS DNA HYBRIDIZATION DETECTION USING GOLD NANOPARTICLES-BASED CHEMILUMINESCENCE SYSTEM Baoxin LI 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
9:50-10:10	C34	IMPROVING DETECTION OF SERUM PROTEINS BY GEL ELECTROPHORESIS Jin OUYANG College of Chemistry, Beijing Normal University, Beijing 100875, China
10:10-10:30		Coffee Break

Chairman: Prof. Ronghua YANG and Aijun TONG

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| 10:30-10:50 | C35 | <p>SIGNAL AMPLIFICATION IN CHEMICAL SENSING BY EMPLOYING ALLOSTERIC INTERACTION</p> <p>Yunbao JIANG</p> <p>Department of Chemistry, College of Chemistry and Chemical Engineering, and the MOE Key Laboratory of Analytical Sciences, Xiamen University, Xiamen 361005, China</p> |
| 10:50-11:10 | C36 | <p>LUMINESCENTLY LABELED APTAMER AS AFFINITY PROBE FOR CAPILLARY ELECTROPHORESIS</p> <p>Xinxiang ZHANG</p> <p>College of Chemistry and Molecular Engineering, Peking University, Beijing 100871</p> |
| 11:10-11:30 | C37 | <p>SINGLE GOLD (SILVER) NANOPARTICLE COUNTER: AN ULTRASENSITIVE DETECTION PLATFORM FOR HOMOGENOUS IMMUNOASSAYS AND NUCLEIC ACID ASSAYS</p> <p>Jicun REN</p> <p>College of Chemistry & Chemical Engineering, Shanghai Jiaotong University, 800 Dongchuan Road, Shanghai, 200240, P. R. China</p> |
| 11:30-11:50 | C38 | <p>HOMOGENEOUS SEQUENCE-SPECIFIC HYDROXYLAMINE-NANOPARTICLES</p> <p>DETECTION OF DNA BASED ON ENLARGED GOLD</p> <p>Jianzhong LU</p> <p>School of Pharmacy, Fudan University, Shanghai, 201203</p> |

POSTER SESSION

**Time: Nov. 27, 2009 (Friday) Coffee Break & Poster Session
(10:10-10:30; 15:10-15:40)**

Location: 2nd Floor of the Central Garden Hotel

- C39 MAGNETIC PARTICLE-BASED CHEMILUMINESCENCE ENZYME IMMUNOASSAY FOR FREE THYROXINE IN HUMAN SERUM
Hui JIN^{1,2}, JinMing LIN^{1,*}, Xu WANG¹, Tianbing XIN^{1,2}, Shuxuan LIANG², Zhenjia LI³, Guomao HU³
- C40 MAGNETIC BEAD BASED IMMUNOASSAY FOR ENUMERATION OF CD4+ T LYMPHOCYTES ON A MICROFLUIDIC DEVICE
Dan GAO^{1,2}, Jiangjiang LIU¹, Haifang LI¹, Guangsheng GUO², Jinming LIN^{1,*}
- C41 THE MEASUREMENT OF UNBURNED CARBON IN FLY ASH BY LASER-INDUCED BREAKDOWN SPECTROSCOPY
Jidong LU*, Shunchun YAO, Shenghua PAN, Meicheng JIANG, Kai CHEN, Meirong DONG
- C42 UPCONVERSION LUMINESCENCE OF HOLMIUM AND YTTERBIUM CO-DOPED Y₂O₃ PHOSPHOR
Xiantao WEI, Yong LI, Xuerui CHENG, Yonghu CHEN, Min YIN
- C43 STUDY OF THE REACTION MECHANISM OF INHIBITION CHEMILUMINESCENCE AND DETERMINATION OF CARBOFURAN IN THE SYSTEM OF LUMINOL-H₂O₂-SODIUM COPPER CHLOROPHYLL
Fengyan JIA, Yongming LIU
- C44 STUDY OF THE INTERACTION BETWEEN TETRAMETHRIN AND BSA BY SYNCHRONOUS FLUORESCENCE SPECTROSCOPY
Xuerong WANG, Xiaojing ZHU, Yongming LIU
- C45 DETERMINATION OF 2, 6-DIAMINOPYRIDINE BY FLOW INJECTION-CHEMILUMINESCENCE METHOD
Tieli ZHANG, Yupei MENG
- C46 APPLICATION OF CONFOCAL-LAZAR RAMAN SPECTROSCOPY ON THE GAS HYDRATES RESEARCHES
Changling LIU^{1, 2}, Yuguang YE^{1, 2}, Qingguo MENG²

- C47 A NOVEL HIGH SELECTIVITY CATALUMINESCENCE GAS SENSOR BASED ON DOUBLE-LAYER THIN FILM
Ying TAO, Xiaolan CAO*
- C48 A NOVEL CATALUMINESCENCE GAS SENSOR BASED ON THREE-LAYER THIN FILM
Xiaolan CAO*, Ying TAO
- C49 PREPARATION AND LUMINESCENCE OF $\text{Eu}^{3+}/\text{Yb}^{3+}$ CO-DOPED ZrO_2 DOWNCONVERSION PHOSPHOR
Xuerui CHENG¹, Xiantao WEI¹, Yonghu CHEN¹, Zeming QI², Min YIN¹
- C50 STUDY ON THE ANTIOXIDANT ACTIVITY OF ANTHRAQUINONE COMPOUNDS IN RHUBARB BY CHEMILUMINESCENCE
Jing HA, Shaomei WU
- C51 RAPID SIMULTANEOUS ANALYSIS OF BENZO[α]PYRENE, BENZO[κ]FLUORANTHENE AND ANTHRACENE IN TEA BY A NOVEL SYNCHRONOUS FLUORIMETRIC METHOD
Xiuying LI, Li-Rong LIN, Na LI, Wei HUANG, Qian LIU, Yaoqun LI*
- C52 OBSERVATION OF SURFACE PLASMON-COUPLED DIRECTIONAL EMISSION AT A FIXED ANGLE USING THIN IRON FILMS
Shuohui CAO, Tang-Tang XIE, Weipeng CAI, Yaoqun LI*
- C53 A FLUORESCENT SELF-ASSEMBLED MONOLAYER FILM TO DETERMINE WATER IN ETHANOL
Fang LI, Xiangying SUN, Bin LIU, Dan LI, Jiangan ZHOU
- C54 FAST IN SITU DETECTION OF TRACE AMOUNTS OF MELAMINE IN MILK PRODUCTS SAMPLES
Xinglei ZHANG^a, Keke HUANG^b, Huanwen CHEN^{*a}, Zhuanzhang WU^a, Qiuli YANG^a, Minjuan CAO^a, Lili ZHANG^b, Yanfu HUAN^{*b}
- C55 FLUORESCENT CONJUGATED POLYMER DOPED ELECTROSPUN NANOFIBROUS MEMBRANES FOR DETECTION OF NITROAROMATIC EXPLOSIVES VAPOR
Huaming WANG, Yuanyuan LONG, Haibo CHEN, Yufei YANG, Feng LIU* and Jian PEI*
- C56 SELECTIVE DETERMINATION OF GUANINE BASED ON THE FLUORESCENCE ENHANCEMENT OF GUANINE – QUERCETIN

SYSTEM

Wei XU, Xia WU*, Haiping ZHOU, Jinghe YANG

EFFECTS OF THE STABILIZERS ON THE FLUORESCENCE PROPERTIES OF CdTe NANOCRYSTALS

- C57 Fang MEI¹, Yanqin WANG¹, Xiwen HE ¹, Wenyu LI ^{1*}and Yukui ZHANG ^{1,2*}

TRIPOLYPHOSPHATE-STABILIZED CdS DETERMINATION OF TRACE IRON (II) BY FLUORESCENCE QUENCHING METHOD

- C58 Chuan-xiao YANG, Xiang-ying SUN *, Bin LIU, pei-lin KE, and Ping HU

DETERMINATION OF HUMAN URINARY KANAMYCIN USING UREA ENHANCED SURFACE PLASMON RESONANCE LIGHT SCATTERING OF GOLD NANOPARTICLES

- C59 Xinyi WANG^{1,2}, Mingjian ZOU¹, Xiao XU¹, Rong LEI¹, Na LI¹, and Kean LI¹

BODIPY-BASED FLUORESCENT PROBES FOR BIOLOGICAL LABELING

- C60 Hong WANG, Huashan ZHANG

DNA AND ENZYME DETECTION BASED ON THE FLUORESCENCE QUENCHING EFFECT OF GOLD NANOPARTICLES

- C61 Hao WANG[†], Yongxiang WANG[†], Jianyu JIN[†], Ronghua YANG^{‡,*}

DESIGN LABEL-FREE MOLECULAR BEACON-BASED PROBES: SEPARATING MOLECULAR RECOGNITION ELEMENT AND SIGNAL TRANSDUCER BY INTERMEDIATE

- C62 Yongxiang WANG[†], Hao WANG[†], Jianyu JIN[†], Ronghua YANG[‡]

COMBINATION OF DNA MOLECULAR DESIGN AND NANOPARTICLE MATERIALS: EFFICIENT TOOL FOR MOLECULAR RECOGNITION

- C63 Hao WANG[‡], Yongxiang WANG[‡], Jianyu JIN[‡], Ronghua YANG^{†,*}, Weihong TAN[†]

SILVER CLUSTER QUENCHED FLUORESCENT OLIGONUCLEOTIDES AND ITS APPLICATION IN DISTINGUISH DIFFERENT THIOL COMPOUNDS

- C64 Jianyu JIN¹, Xiangyuan OUYANG², Hao WANG¹, Yongxiang WANG¹, Ronghua YANG^{2*}

- C65 STUDY OF LUMINESCENT PROPERTIES OF A NOVEL TERBIUM

- RARE EARTH COMPLEX Tb(PCAD)₃Phen
Yuguang LV^{1*}, Qiuping LI¹, Chunhui SHI¹, Yuehui ZHOU¹, Gang LI¹,
Fujun ZHANG²
- C66 EFFECT OF ANIONS IN IMIDAZOLIUM-BASED IONIC LIQUIDS ON J-AGGREGATES OF MESO-TETRAKIS- (4-SULFONATOPHYENYL) PORPHYRIN
Lili LIU¹, Lei XI^{*2}, Weijun JIN^{*1} and Zhongjie DONG²
- C67 INTERACTIONS BETWEEN HOLE- AND ELECTRON-ACCEPTORS AND CdSe QUANTUM DOTS CAPPED BY OLEIC ACID IN n-HEXANE
Wenting LI, YunNan ZHENG, Shaojue WU, Shi FENG, Weijun JIN^{*}
- C68 COOPERATIVE DOWNCONVERSION LUMINESCENCE IN NAYF₄:TB³⁺, YB³⁺
Guicheng JIANG, Xiantao WEI, Baogui YOU, Xiaochun WANG, Yonghu CHENG, and Min YIN
- C69 DESIGN OF MOLECULAR BEACONS AS SIGNALING PROBES FOR ATP DETECTION IN CANCER CELLS BASED ON CRET
Shusheng ZHANG,^{*} Yameng YAN, and Sai BI
- C70 DETERMINATION OF LIVER FUNCTION INDEXES IN LIVER FIBROSIS RATS ORAL-DOSED LIVER-PROTECTED CAPSULES
Congcong SONG¹, Yan CHEN², Nian XIN¹, Weiwei MENG^{*1,2}, Rongji DAI^{1,2}, and Yulin DENG^{*1,2}
- C71 USING GRAPHENE FOR BIOMACROMOLECULES SENSING
Huanghao YANG, Chun-Hua LU, Chun-Lin ZHU, Juan LI
- C72 BASED ON MOLECULAR BEACON CONTROLLABLE MULTIFUNCTION DRUG CARRIER FOR TARGET DNA MULTIANALYSIS, MULTICOLOR IMAGE AND DRUG DELIVERY
Guangming QIAO, Wen GAO, Linhai ZHUO and Bo TANG
- C73 RESONANCE LIGHT SCATTERING SPECTROSCOPY STUDY OF INTERACTION BETWEEN FOLIC ACID AND HYDROGEN TETRACHLOROAUATE AND ITS ANALYTICAL APPLICATION
Lin CHEN^{1, 2}, Kejun TAN^{1*}
- C73 A TERBIUM COMPLEX-BASED PROBE FOR LUMINESCENT IMAGING OF PEROXYNITRITE IN LIVING CELLS
Cuihong SONG¹, Guilan WANG², Zhiqiang YE², Jingli YUAN^{1,2,*}, Yafeng

GUAN¹

- C75 A TERBIUM COMPLEX-BASED LUMINESCENT SENSOR FOR THE RAPID DETECTION OF Zn²⁺ IN AQUEOUS MEDIA
Zhiqiang YE, Jinxue CHEN, Guilan WANG, Jingli YUAN*
- C76 CHEMILUMINESCENCE DETERMINATION OF SOME PHARMACEUTICALS WITH LUMINOL-COPPER(II) REACTION
Hong LI and Jianxiu DU
- C77 SIMULTANEOUS AND SELECTIVE PRE-CONCENTRATION OF TRACE COPPER AND SILVER BY ONE-STEP DISPLACEMENT CLOUD POINT EXTRACTION FOR FAAS AND ICP-MS DETERMINATION
Ying GAO,¹ Peng WU,² Wei LI,¹ Yuelan XUAN,¹ Xiandeng HOU^{1,2*}
- C78 TWO-END FEIFL AMPLIFIED SAMPLE INJECTION CAPILLARY ELECTROPHORESIS FOR SIMULTANEOUS STACKING OF BASIC AND ACIDIC COMPOUNDS
Xiaoling HOU ², Dongli DENG ², Xi WU ¹, Yi LV ², and Jiyou ZHANG^{1*}
- C79 THE APPLICATION OF DIELECTRIC BARRIER DISCHARGE IN ANALYTICAL CHEMISTRY
Jing HU¹, Wei LI¹, Yi LV¹, Xiandeng HOU^{1,2*}
- C80 SENSITIVE DETERMINATION OF TRACE ELEMENTS IN ENVIRONMENTAL SAMPLES BY ATOMIC SPECTROMETRY AFTER HYDRIDE TRAPPING ON TUNGSTEN COIL
Rui LIU¹, Maoyang XI¹, Peng WU², Kailai XU¹ and Yi LV¹
- C81 UV PHOTOCHEMICAL VAPOR GENERATION AND IN SITU PRECONCENTRATION FOR DETERMINATION OF NICKEL BY FLOW INJECTION GFAAS
Chengbin ZHENG, ¹ Ralph E. STURGEON² and Xiandeng HOU¹
- C82 FRET SYSTEM FOR MNASE WITH LYSOZYME MODIFIED QDS AND DYE-LABELED SINGLE-STRANDED DNA
Ting QIU, Shan HUANG and Zhike HE
- C83 FUNCTIONAL ON-COLUMN FRACTURE REACTOR INTERFACE FOR CHEMILUMINESCENCE DETECTION IN CAPILLARY ELECTROPHORESIS
Qinfeng XU, Jing LIU and Zhike HE

- C84 DETERMINATION OF ABSCISIC ACID BASED ON THE FLUORESCENT QUENCHING OF QUANTUM DOTS
Lei ZHANG, HongLiang GUAN, ZhiKe HE
- C85 DEPTH PROFILING OF THIN METAL COATINGS BY ICP-MS WITH A LOW TEMPERATURE PLASMA PROBE
Zhi XING, Juan WANG, Sichun ZHANG, Xinrong ZHANG*
- C86 H₂O₂ REGULATE TUMOR CELL METASTASIS THROUGH JNK-VEGF SIGNALLING PATHWAY
Wen GAO, Kehua XU, Guangming QIAO, Ping LI, Bo TANG*
- C87 DETECTION OF SERUM FERRITIN BY LUMINESCENCE IMAGING METHODS
Na NA, Yueli LIU and Jin OUYANG*
- C88 CDTE QUANTUM DOT-BASED FLUORESCENT IMAGING DETECTION OF PROTEINS AFTER POLYACRYLAMIDE GEL ELECTROPHORESIS
Na NA, Lu LIU, Yueli LIU and Jin OUYANG*
- C89 DIRECT CHEMILUMINESCENT IMAGING DETECTION OF SALBUTAMOL AFTER POLYACRYLAMIDE GEL ELECTROPHORESIS
Ruichao ZHANG^{1,2}, Canli ZHANG¹, Na NA¹, , Qiang GAO², Chengxiao ZHANG², Jin OUYANG^{*1}
- C90 EFFECTS OF N,N,N',N'-TETRAMETHYLETHYLENEDIAMINE ON QUANTUM DOTS PROPERTIES
Lin MA, Na NA and Jin OUYANG*
- C91 RECOGNITION OF ORGANIC COMPOUNDS IN AQUEOUS SOLUTIONS BY CHEMILUMINESCENCE ON AN ARRAY OF CATALYTIC NANOPARTICLES
Hao KONG, Sichun ZHANG, Na NA, Da LIU and Xinrong ZHANG*
- C92 DUAL-CHANNEL SENSING OF VOLATILE ORGANIC COMPOUNDS WITH SIMULTANEOUS OPTICAL AND ELECTRICAL DETECTION
Da LIU, Mingyang LIU, Guohong LIU, Sichun ZHANG, Yayan WU and Xingrong ZHANG*
- C93 A SENSITIVE METHOD FOR DETERMINATION OF TRACE NITRITE BASED ON FLUORESCENCE ENERGY TRANSFER

Lun WANG, Jingguo CHEN, Hongqi CHEN, Cailing ZHOU, Bo LING and Jie FU

- C94 APPLICATION OF Eu^{3+} -DOPED CADMIUM SULFIDE COMPOSITE NANOPARTICLES TO THE DETERMINATION OF TRACE MERCURY
Lun WANG¹, Jie FU¹, Hong-Qi CHEN¹, Ani LIANG¹, Bin-bin QIAN¹, Bo LING¹ and Cailing ZHOU¹

- C95 SENSING OF PHOSPHATE BASED ON THE COMPETITIVE DISPLACEMENT OF THE QUANTAN DOTS BOND BY Eu (III)
Changqing ZHU, Chun CAO, Yunsheng XIA and Zhangsheng QIAN

- C96 INDICATING OF INTRACELLULAR PHYSIOLOGICAL pH CHANGE BY pH-TUNING THE ELECTROSTATIC AND HYDROPHOBIC INTERACTION BETWEEN QUANTAM DOTS
Changqing ZHU, Linjun BAO, Yunsheng XIA, Zhangsheng QIAN and Meifen GUI

- C97 ELECTROCHEMILUMINESCENCE OF CdS NANOCRYSTALS PRETREATED WITH AMMONIA
Fuqiang ZHANG, Haiyan WANG

- C98 APPLICATIONS OF CHARACTERISTIC SPECTRUM OF 3-D FLUORESCENT CONTOUR IN THE IDENTIFICATION OF NATURAL MATERIALS
Jiajia CAO², Yongqun XU¹, Xiaokang CHEN¹, Xiaoyu HAN² and Donglan HUANG¹

- C99 A COMPETITIVE ELISA FOR THE DETERMINATION OF DICYCLOHEXYL PHTHALATE IN ENVIRONMENTAL SAMPLES
Mingcui ZHANG, Yali SHENG, Ying CONG and Bolin LIU

- C100 A HIGHLY SPECIFICITY COMPETITIVE ENZYME-LINKED IMMUNOSORBENT ASSAY (ELISA) FOR DETERMINATION OF DIETHYL (O-)PHTHALATE IN WATER SAMPLES
Mingcui ZHANG, Ying CONG, Yali SHENG and Bolin LIU

- C101 A DIRECT COMPETITION ELISA FOR THE DETERMINATION OF DIMETHYL PHTHALATE
Mingcui ZHANG, Bolin LIU, Yali SHENG and Ying CONG

- C102 STIR BAR SORPTIVE EXTRACTION BASED ON TITANIA COATED POLYPROPYLENE HOLLOW FIBER COMBINED WITH

HPLC-ICP-MS FOR ARSENIC SPECIATION

Xiangju MAO, Beibei CHEN, Chaozhang HUANG, Man HE, Bin HU

CHIP-BASED MAGNETIC SOLID PHASE MICROEXTRACTION
COMBINED WITH ETV-ICP-MS FOR THE DETERMINATION OF
CADMIUM, MERCURY AND LEAD IN CELLS

C103

Beibei CHEN¹, Shujing HENG¹, Hanyong PENG¹, Bin HU¹, Xu YU¹,
Zhiling ZHANG¹, Daiwen PANG¹, Xin YUE² and Ying ZHU²

SCHEDULE OF SESSIONS

D. CHROMATOGRAPHY

CHAIRMAN: Prof. Yi CHEN

ORAL LECTURES

Time: Nov. 26, 2009 PM (Thursday)

Location: Harmonious Garden Hall, Central Garden Hotel

13:25-13:30 Opening Address: Prof. Yukui ZHANG and Prof. Yi CHEN

Chairman: Prof. Yizeng LIANG and Prof. Yinfa MA

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| | | CHROMATOGRAPHY-HYPHENATED | NUCLEAR |
| | | TECHNIQUES FOR METALLOMICS STUDY | |
| | | Zhifang CHAI (Keynote) | |
| 13:30-13:50 | D2 | Key Laboratory of Nuclear Analytical Techniques and Key Laboratory of Bio-environmental Effects of Nanomaterials and Nanosafety, Institute of High Energy Physics, Chinese Academy of Sciences, P.O. Box 918, Beijing 10049, China | |
| | | A NUMERICAL MODEL FOR COUNTER CURRENT CHROMATOGRAPHY | |
| | | Yizeng LIANG | |
| 13:50-14:05 | D3 | College of Chemistry and Chemical Engineering, Research Center of Modernization of Chinese Medicines, Central South University, Changsha, 410083, People's Republic of China | |
| | | SECOND-ORDER CALIBRATION AND ITS APPLICATIONS TO PHARMACEUTICAL AND BIOMEDICAL ANALYSIS | |
| | | Hailong WU | |
| 14:05-14:20 | D4 | State Key Laboratory of Chemo/Biosensing and Chemometrics, College of Chemistry and Chemical Engineering, Hunan University, Changsha 410082, China | |
| | | CANCER BIOMARKER DISCOVERY FOR NONINVASIVE EARLY CANCER DIAGNOSIS BY USING CAPILLARY ELECTROPHORESIS | |
| 14:20-14:40 | D5 | Yinfa MA (Keynote)
Department of Chemistry, Missouri University of Science and Technology, Rolla, MO 65409, USA | |

14:40-15:00

Coffee Break

Chairman: Prof. Jinming LIN and Prof. Hanfa ZOU

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| 15:00-15:20 | D6 | REAGENT-RELEASE CAPILLARY-BASED ISOELECTRIC FOCUSING (RRC-BASED IEF): A SIMPLE, DISPOSABLE, RAPID, AND SENSITIVE METHOD TOWARDS MULTIPLE IMMUNOASSAY ON A CAPILLARY-ASSEMBLED MICROCHIP (Cas-CHIP)
Hideaki HISAMOTO (Keynote)
Department of applied chemistry, Graduate School of Engineering, Osaka Prefecture University, Osaka 599-8531, Japan |
| 15:20-15:35 | D7 | INVESTIGATION OF SINGLE CELL RESEARCHMENT AND TISSUE ENGINEERING IN A GLASS CHIP WITH PROTRUDENT CIRCULAR PLOT ARRAYS
Jinming LIN
Department of Chemistry, Tsinghua University, Beijing 100084, China |
| 15:35-15:50 | D8 | MICRO-NANOFLUIDICS DEVICES FOR PROTEIN CONCENTRATION AND ENZYMATIC REACTION
Xinghua XIA
Key Lab of Analytical Chemistry for Life Science, School of Chemistry and Chemical Engineering, Nanjing University, Nanjing 210093, China |
| 15:50-16:05 | D9 | MONOLITHIC CAPILLARY COLUMNS FOR EFFICIENT SEPARATION OF BIOLOGICAL SAMPLES
Hanfa ZOU
CAS Key Laboratory of Separation Science for Analytical Chemistry, National Chromatographic R&A Center Dalian Institute of Chemical Physics, Chinese Academy of Sciences, 457 Zhongshan Road, Dalian 116023, China |

Time: Nov. 27, 2009 AM (Friday)

Location: Harmonious Garden Hall, Central Garden Hotel

Chairman: Prof. Guowang XU and Prof. Hans-Gerd JANSSEN

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| 8:30-8:50 | D10 | FACILITATING CHROMATOGRAPHIC ANALYSIS BY NEW FUNCTIONAL MATERIALS
Shouzhuo YAO (Keynote) |
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¹State Key Lab of Chemo/Biosensing and Chemometrics, College of Chemistry and Chemical Engineering, Hunan University, Changsha 410082, China

²Key Lab of Chemical Biology and TCM Research of MOE, College of Chemistry and Chemical Engineering, Hunan Normal University, Changsha 410082, China

COMPARISON OF ONE-DIMENSIONAL AND TWO-DIMENSIONAL LC-MS METHODS FOR METABONOMICS

8:50-9:05 D11 **Guowang XU**
Key Laboratory of Separation Science for Analytical Chemistry, Dalian Institute of Chemical Physics, Chinese Academy of Sciences, 16023 Dalian, China

MONOLITHIC PRECOLUMN FOR PRECONCENTRATION OF INTACT PROTEINS IN PROTEOMIC ANALYSIS

9:05-9:20 D12 **Xiangmin ZHANG**
¹Department of Chemistry, Fudan University, Shanghai 200433, China
²Institute of Biomedical Sciences, Fudan University, Shanghai 200023, China

STUDY ON ENZYME KINETICS BY CHIRAL LIGAND-EXCHANGE CAPILLARY ELECTROPHORESIS

9:20-9:30 D13 **Li QI**
Beijing national laboratory of molecular science; Laboratory of Analytical Chemistry for Life Science, Institute of Chemistry, Chinese Academy of Sciences, Beijing 100190, China

MULTI-DIMENSIONAL CHROMATOGRAPHY SYSTEMS FOR THE COMPREHENSIVE ANALYSIS OF FOODS, POLYMERS AND BACTERIAL SAMPLES

9:30-9:50 D14 **Hans-Gerd JANSSEN** (Keynote)
¹Unilever Research and Development, P.O. Box 114, Vlaardingen, the Netherlands
²University of Amsterdam, Nieuwe Achtergracht 166, Amsterdam, The Netherlands

9:50-10:10

Coffee Break

Chairman: Prof. Xueguang SHAO and Prof. Luigi MONDELLO

10:10-10:30 D15 ULTRA HIGH RESOLUTION MASS SPECTROMETRY (ICR/FT-MS) AND COUPLED TECHNIQUES FOR

METABOLOME ANALYSIS IN ENVIRONMENT AND HEALTH

Ph. Schmitt-Kopplin (Keynote)

Department of BioGeoChemistry and Analytics, Institut für Ökologische Chemie, Helmholtz Zentrum Muenchen, Ingolstaedter Landstrasse 1, 85764 Neuherberg, Germany

RESOLUTION OF MULTICOMPONENT GC-MS SIGNAL FOR HIGH-THROUGHPUT ANALYSIS

10:30-10:45 D16 **Xueguang SHAO**

Research Center for Analytical Sciences, College of Chemistry, Nankai University. Tianjin, 300071, China

ENRICHMENT AND IDENTIFICATION OF SIGNATURE PEPTIDES IN PROTEOMICS STUDY BY CHEMICAL MODIFICATION, NOVEL NANOPARTICLES AND MASS SPECTROMETRY

10:45-11:00 D17 **Xiaohong QIAN**

State Key Laboratory of Proteomics - Beijing Proteome Research Center - Beijing Institute of Radiation Medicine. No.33, Life Science Park Road, Changping District, Beijing, China, 102206

STUDIES OF PRESSURE DRIVING INTACT CELLS DETECTION IN CAPILLARY

11:00-11:10 D18 **Feng QU**

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

COMPREHENSIVE LC COUPLED TO IT-TOF MASS SPECTROMETRY (LCXLC/MS(IT-TOF) EXACT MOLECULES CONFIRMATION USING MS/MS EXPERIMENTS

11:10-11:30 D19 **Luigi MONDELLO** (Keynote)

Dipartimento Farmaco-chimico, Facoltà di Farmacia, Università di Messina. Viale Annunziata, Messina, 98168, Italy

Time: Nov. 27, 2009 PM (Friday)

Location: Harmonious Garden Hall, Central Garden Hotel

Chairman: Prof. Yuqi FENG and Prof. Michal J. MARKUSZEWSKI

13:30-13:50 D20 PROTEIN PRE-FRACTIONATION FOR PROTEOMICS USING FLOW FIELD-FLOW FRACTIONATION

Myeong Hee MOON (Keynote)

Dept. of Chemistry, Yonsei University, Seoul, 120-749, Korea

POLYMER MONOLITH COATED STIR ROD SORPTIVE
EXTRACTION AND ITS APPLICATION TO THE
DETERMINATION OF FLUOROQUINOLONES IN WATER
AND HONEY SAMPLES

13:50-14:05 D21 **Yuqi FENG**

Key Laboratory of Analytical Chemistry for Biology and
Medicine, Department of Chemistry, Wuhan University, Wuhan
430072, PR China

MICROFLUIDIC HIGH-SPEED CAPILLARY
ELECTROPHORESIS WITH PICOLITER-SCALE SAMPLE
INJECTION

14:05-14:20 D22 **Qun FANG**

Institute of Microanalytical Systems, Zhejiang University,
Hangzhou, 310058, China

DETERMINATION OF MELAMINE IN EGGS BY
MAE-LC-MS

14:20-14:30 D23 **Liushui YAN**

College of Environmental and Chemical Engineering, Nanchang
Hangkong University, Nanchang 330063, China

CHARACTERIZATION OF THE PYRAZOSULFURON
IMPRINTED MICROSPHERE SYNTHESIZED BY
REVERSIBLE ADDITION-FRAGMENTATION CHAIN
TRANSFER AND PRECIPITATION POLYMERIZATION

14:30-14:40 D24 **Xiangchao DONG**

College of Chemistry, Nankai University, Tianjin 300071

BIOMARKERS DISCOVER BASED ON METABOLOMICS
AND SEPARATION TECHNIQUES

Michal J. MARKUSZEWSKI (Keynote)

14:40-15:00 D25 ¹Department of Toxicology, Collegium Medicum Nicolaus
Copernicus University, Torun, M. Skłodowskiej-Curie 9, 85-094
Bydgoszcz, Poland

²Department of Biopharmacy and Pharmacodynamics, Medical
University of Gdansk, Gdansk, Gen. J. Hallera 107, 80-416
Gdansk, Poland

15:00-15:20

Coffee Break

Chairman: Prof. Guonan CHEN and Prof. Yafeng GUAN

- ANALYSIS OF BIOACTIVE PEPTIDES BY CE-ESI-MS AND CE-LIF
Guonan CHEN
15:20-15:35 D26 Ministry of Education Key Laboratory of Analysis and Detection for Food Safety, Fujian Provincial Key Laboratory of Analysis and Detection Technology for Food Safety, and Department of Chemistry, Fuzhou University, Fuzhou, Fujian, 350002, China
- THE PREPARATION AND APPLICATION OF NEW-STYLE SILICA BASED STATIONARY PHASE FOR HIGH PERFORMANCE LIQUID CHROMATOGRAPH
15:35-15:50 D27 **Shengxiang JIANG**
Lanzhou Institute of Chemical Physics, the Chinese Academy of Sciences, Gansu, Lanzhou 730000, China
- THE APPLICATIONS OF MICRO/NANO TECHNOLOGY IN THE IMPROVEMENT OF MICROFLUIDIC IMMUNOASSAYS
15:50-16:05 D28 **Xingyu JIANG**
CAS Key Lab for Biological Effects of Nanomaterials and Nanosafety, National Center for NanoScience and Technology, 11 Beiyitiao, ZhongGuanCun, Beijing 100190, China
- STUDY ON MICRO-GAS CHROMATOGRAPH
Yafeng GUAN
16:05-16:20 D29 Dept. of Instrumentation & Analytical Chemistry, Key Lab of Separation Science for Analytical Chemistry, CAS, Dalian Institute of Chemical Physics, Chinese Academy of Sciences, 457 Zhongshan Road, Dalian 116023
- NEW NANOFLUIDIC INTERFACE FOR ONLINE PRE-CONCENTRATION OF CHARGE SPECIES IN CAPILLARY CHIP ELECTROPHORESIS
16:20-16:30 D30 **Zhiyong WU**
Research Center of Analytical Sciences, Northeastern University, Shenyang, 110004, PRC
- PREPARATION OF MAGNETIC CHITOSAN MICROSPHERE IMMOBILIZED ENZYME AND APPLICATION IN HPLC SCREENING ENZYME INHIBITOR
16:30-16:40 D31 **Zhiqi ZHANG**
Key Laboratory of Analytical Chemistry for Life Science of

Shaanxi Province, School of Chemistry and Material Science,
Shaanxi Normal University, Xi'an 710062, China

ENHANCED PEAK CAPACITY IN ION
CHROMATOGRAPHY USING GRADIENT ELUTION AND
MULTIDIMENSIONAL SEPARATIONS

16:40-17:00 D32 **Robert SHELLIE** (Keynote)
Australian Centre for Research on Separation Science
(ACROSS), University of Tasmania, Private Bag 75, Hobart,
7001 Australia

Time: Nov. 28, 2009 AM (Saturday)

Location: Harmonious Garden Hall, Central Garden Hotel

Chairman: Prof. Shaoping LI and Prof. Alejandro CIFUENTES

UNI- AND BIDIMENSIONAL CAPILLARY
ELECTROMIGRATION TECHNIQUES IN TRANSGENIC
FOOD ANALYSIS

8:30-8:50 D33 **Alejandro CIFUENTES** (Keynote)
Dep. Food Analysis, Inst. Industrial Fermentations, CSIC, 28006
Madrid, Spain

ON-LINE FAST PURIFICATION OF CRUDE α -AMYLASE
BY ON-LINE 2D-LC WITH A SINGLE COLUMN

8:50-9:05 D34 **Xindu GENG**
Institute of Modern Separation Science, Key Laboratory of
Separation Science in Shaanxi Province, Northwest University,
Xi'an 710069, China

LIQUID-LIQUID-SOLID MICROEXTRACTION BASED ON
MEMBRANE-PROTECTED MOLECULARLY IMPRINTED
POLYMER FIBER FOR TRACE ANALYSIS OF TRIAZINES
IN COMPLEX AQUEOUS SAMPLES

9:05-9:20 D35 **Gongke LI**
School of Chemistry and Chemical Engineering, Sun Yat-sen
University, Guangzhou, 510275, China

FLAVONOIDS ANALYSIS BY NON-AQUEOUS
CAPILLARY ELECTROPHORESIS WITH IONIC-LIQUID
ELECTROLYTES

9:20-09:30 D36 **Yuanqi LU**
¹Research Centre for Analysis, Dezhou University, University

West Road 566, Dezhou 253023, P. R. China

²Australian Centre for Research on Separation Science, School of Chemistry, University of Tasmania, Hobart, Tasmania, 7001, Australia

CHROMATOGRAPHIC ANALYSIS FOR QUALITY CONTROL OF CHINESE HERBS

9:30-9:50 D37 **Shaoping LI** (Keynote)
Institute of Chinese Medical Sciences, University of Macau, Macau SAR, China

9:50-10:10

Coffee Break

Chairman: Prof. Huwei LIU and Prof. Marja-Liisa RIEKKOLA

10:10-10:30 D38 **Marja-Liisa RIEKKOLA** (Keynote)
AEROSOLOMIC FINGERPRINTING AND AEROSOLOMIC PROFILING CHALLENGES AND POSSIBILITIES FOR ANALYTICAL INSTRUMENTAL TECHNIQUES
Laboratory of Analytical Chemistry, Department of Chemistry, Helsinki, P.O. Box 55, 00014. University of Helsinki, Finland

10:30-10:45 D39 **Xinmiao LIANG**
CHROMATOGRAPHIC METHODOLOGY AND TECHNOLOGY FOR DEVELOPING MULTI-COMPONENT CHINESE MEDICINE
Dalian Institute of Chemical Physics, Chinese Academy of Sciences. 457 Zhongshan Road, Dalian 116023, P. R. China

10:45-10:55 D40 **Weili WEI**
DIFFERENT EFFECT OF HELICAL STRUCTURES ON THE CHIRAL RECOGNITION OF AMYLOSE: A CAPILLARY ELECTROPHORETIC STUDY
State Key Laboratory of Environmental and Ecotoxicology, Research Center for Eco-Environmental Sciences, Chinese Academy of Sciences, Beijing 100085, China

10:55-11:10 D41 **Huwei LIU**
DEVELOPMENT OF CAPILLARY ELECTROPHORESIS: CHALLENGES AND RESOLUTIONS
Institute of Analytical Chemistry, College of Chemistry and Molecular Engineering, Peking University, Beijing 100871, China

11:10-11:30 D42 ADVANCEMENT IN CHROMATOGRAPHY

Yukui ZHANG (Keynote)

Key Laboratory of Separation Science for Analytical Chemistry,
Dalian Institute of Chemical Physics, Chinese Academy of
Sciences, Dalian 116023, China

11:30-11:40

Closing Address: Prof. Yukui Zhang and Prof. Huwei Liu

POSTER SESSION

Time: Nov. 26, 2009 PM (Thursday) 16:05-17:30

Location: Harmonious Garden Hall (D43-D64)&2nd Floor of the Central Garden Hotel (D65-D107)

- D43 DIRECT APPLICATION OF NATURAL POLYSACCHARIDE AMYLOSE AS CHIRAL SELECTOR IN CAPILLARY ELECTROPHORESIS
Weili WEI, Jinming LIN
- D44 A PREPARATION AND CHARACTERIZATION OF pH-RESPONSIVE MONOLITHIC COLUMN
Xiaoyi WEI , Li QI*, Gengliang YANG , and Fuyi WANG
- D45 STUDY ON NOVEL COVALENT COATINGS AS SURFACTANTS IN CEC
Juan QIAO, Li QI*, Huimin MA , Huwei LIU , Jun YANG , Yi CHEN , Gengliang YANG
- D46 APPLICATION OF A NOVEL METHACRYLATE-BASED MONOLITH FOR LIQUID CHROMATOGRAPHY
Chunhe Yao , Li Qi*, Gengliang Yang , and Fuyi Wang
- D47 IDENTIFICATION OF N⁶-(4-HYDROXYBENZYL) ADENINE RIBOSIDE METABOLITES IN RAT PLASMA AND URINE USING LC-MS-MS
Yujia LEI, Li WANG, Hongbing XIAO
- D48 IDENTIFICATION OF CONSTITUENTS ABSORBED INTO RAT PLASMA AFTER ORAL ADMINISTRATION OF RHIZOMA CHUANXIONG DECOCTION BY HPLC-ESI-MS/MS
Aihua ZUO, Li WANG, Hongbin XIAO, Yuhong LIU, Jinghai YI
- D49 FAST CAPILLARY GAS CHROMATOGRAPHY USING IONIC LIQUID BONDED POLYSILOXANE AS STATIONARY PHASE
Xiaojie SUN, Caiying WU, Jun XING*
- D50 IONIC LIQUID BONDED COATING FOR DETERMINATION OF PENTACHLOROPHENOL IN WATER SAMPLE BY SOLID-PHASE MICRO-EXTRACTION COUPLED WITH GAS CHROMATOGRAPHY
Lian DUAN, Ruijuan ZHOU, Caiying WU, Jun XING*

- D51 DETERMINATION OF 2''-O-RHAMNOSYLSWERTISIN IN RAT PLASMA BY REVERSED-PHASE HIGH-PERFORMANCE CHROMATOGRAPHY WITH UV DETECTION
Zhongqiu TENG, Yujuan LI, Rongji DAI, Yuhong YU, Weiwei MENG* and Yulin DENG*
- D52 STUDY ON THE BEST COLLECTING SEASON OF HAITANGPING'S LEAVES FROM HAINAN BY UV AND RP-HPLC
Shaohua JIA, Yuhong YU, Yan CHEN, Rongji DAI, Weiwei MENG, Liang ZHANG, Yulin DENG*
- D53 DETERMINATION OF SWERTISIN IN RAT URINE AND FECES AFTER INTRAVENOUS ADMINISTRATION BY HPLC-UV METHOD
Zhezhe YANG, Runan DONG, Yujuan LI*, Yulin DENG*
- D54 UV-IRRADIATED PROTEIN PHOTOIMMOBILIZATION ON QUARTZ SLIDE VIA BENZOPHENONE
Xin WU, Chuanli LIU, Qi TANG, Zhenmin WANG, Qin LI, Xuefei LV, Lina GENG*, Yulin DENG*, Yanlian YANG and Yuanyuan GUO
- D55 IONIC LIQUIDS GRAFTED POLYMETHYLSILOXANES FOR CAPILLARY GAS CHROMATOGRAPHY
Qingquan WEI, Meiling QI*, Hanxue YANG and Ruonong FU
- D56 POLYMERIZED IONIC LIQUID STATIONARY PHASE FOR CAPILLARY GAS CHROMATOGRAPHY
Xiaoyan CHEN, Kai LU, Meiling QI* and Ruonong FU
- D57 ON-LINE PRECONCENTRATION AND CLEAN-UP COUPLE WITH HIGH PERFORMANCE LIQUID CHROMATOGRAPHY-MASS SPECTROMETRY FOR THE DETERMINATION OF DECA-BROMODIPHENYL ETHER IN HUMAN SERUM
Xuexia LIN, Yan LIU, Jinghua ZHANG, Jin-Ming LIN*
- D58 SIMULTANEOUS DETERMINATION OF FIVE ESTROGENS IN HAND CREAM BY ULTRA HIGH-PERFORMANCE LIQUID CHROMATOGRAPHY
Xuexia LIN, Zhen LIN, Yan LIU, Jinghua ZHANG, Jin-Ming LIN*
- D59 METABOLIC PROFILING OF PLASMA BY GAS CHROMATOGRAPHY/TIME-OF-FLIGHT MASS SPECTROMETRY: METHOD DEVELOP AND VALIDATION
Xiang LI, Xin LU, Guowang XU

- D60 SEPARATION OF GIBBERELLINS BY NONAQUEOUS CAPILLARY ELECTROPHORESIS
Xiaoyu WANG, Yi CHEN*
- D61 APPLICATION OF MICELLAR ELECTROKINETIC CHROMATOGRAPHY TO THE MONITORING OF ORGANIC REACTION
Lijuan SONG, Yi CHEN*
- D62 DETERMINATION OF DIFFUSIVITY BY CAPILLARY ELECTROPHORESIS
Suhua YANG, Yi CHEN*
- D63 A NEW METHOD FOR MASS CALIBRATION IN MS
Lipo MA, Guanghui WANG, Bin XIN, Shu ZHANG, Shaoxiang XIONG, Yi CHEN*
- D64 STUDY ON GIBBERELLINS BY ELECTROSPRAY IONIZATION MASS SPECTROMETRY
Shu ZHANG , Lipo MA , Jun CHEN, Shaoxiang XIONG*, Yi CHEN*
- D65 INVESTIGATION OF THE INTERACTION BETWEEN BENZENEDIOL AND FOUR KINDS CONFORMATION OF CALIX[4]ARENES BASED ON QUANTUM CHEMISTRY CALCULATIONS
Junqiang ZHANG, Kai HU, Furong WEN, Song LIANG, Kangkang CHEN, Shusheng ZHANG*
- D66 RAPID SCREENING OF BIOACTIVE COMPOUNDS IN CHINESE RHUBARB COMBINING FAST COUNTER-CURRENT CHROMATOGRAPHY FRACTIONATION AND HPLC/MS ANALYSIS
Ruilin HU, Xiaojing DAI, Yuanjiang PAN
- D67 CAPILLARY ELECTROPHORESIS METHOD TO CHARACTERIZE BCL-2 PROTEIN IN INTACT CELLS BY COMBINING INTRACELLULAR IMMUNOENZYME REACTION WITH DUAL-WAVELENGTH DETECTION
Jinmei DING, Lu ZHANG, Xiaomin REN, Feng QU*
- D68 PARTITION OF PROTEINS IN POLYETHYLENE GLYCOL -AMMONIUM SULFATE AQUEOUS TWO-PHASE SYSTEMS
Min DONG, Feng QU*, Fan CHEN, Qingqing GAI
- D69 SELECTIVE SEPARATION OF PROTEINS WITH THE MAGNETIC CATION EXCHANGER

Qingqing GAI, Tao ZHANG, Feng QU, Yukui ZHANG

- D70 PROTEIN KINASE INHIBITOR SCREENING IN NATURAL EXTRACTS BY CE WITH ON-COLUMN ACTIVE ASSAY
Tongdan WANG, Jingwu KANG*

- D71 A NEW METHOD BASED ON AFFINITY SELECTIVE MAGNETIC NANOPARTICLES FOR TARGET IDENTIFYING OF SMALL BIOLOGICAL ACTIVE MOLECULES
Yunhuan WEI, Jingwu KANG*

- D72 DETERMINATION OF 16 PAHs IN WATER USING BAMBOO CHARCOAL AS SOLID-PHASE EXTRACTION ADSORBENT BY HIGH-PERFORMANCE LIQUID CHROMATOGRAPHY WITH MONOLITHIC COLUMN
Jiping MA, Mo LI, Ronghui XIAO, Wenhui LU

- D73 CHIRAL SEPARATION AND MECHANISMS PROBING OF TRIAZOLE PESTICIDES WITH POLYSACCHARIDE-BASED CHIRAL STATIONARY PHASES
Liyan SHI, Huiying Mu, Shuke XUE, Manhui LIU, Huijuan DUN*

- D74 SIMULTANEOUS DETERMINATION OF TAURINE AND ITS INTERMEDIATE IN MILK AND BEVERAGES USING HPLC WITH PRE-COLUMN DERIVATIZATION
Fengxia QIAO, Hongyuan YAN*, Baomi LIU, Jingjing DU

- D75 ISOLATION AND PURIFICATION OF GINSENOSESIDES FROM PLANT EXTRACT OF PANAX QUINQUEFOLIUM L. BY HIGH PERFORMANCE CENTRIFUGAL PARTITION CHROMATOGRAPHY COUPLED WITH EVAPORATIVE LIGHT SCATTERING DETECTION
Chunming LIU*, Jing WANG, Helong BAI, Li LI

- D76 PREPARATION ISOLATION OF DAMMARANE SAPONINS FROM PLANT EXTRACT OF PANAX NOTOGIESENG BY HIGH PERFORMANCE CENTRIFUGAL PARTITION CHROMATOGRAPHY COUPLED WITH EVAPORATIVE LIGHT SCATTERING DETECTION
Jing WANG, Chunming LIU*, Helong BAI, Li LI

- D77 DETERMINATION OF GLUCOSE AND TOTAL CHOLESTEROL IN A DROPLET OF BLOOD BY CAPILLARY ELECTROPHORESIS WITH ON-COLUMN ENZYMATIC ASSAY AND LIF DETECTION
MA Ling, KANG Jingwu*

- D78 FUNDAMENTAL ESTABLISHMENT OF CHIP ELECTROPHORESIS
FRONTAL ANALYSIS OF FLUORESCIN SODIUM FOR ITS
INTERACTION WITH BOVINE SERUM ALBUMIN
Ping JIANG, Rena BAKTUR, Jiandong XU, Zhenmin WANG, Qin LI,
Xiaoming HU, Rongji DAI, Lina GENG* and Yulin DENG *
- D79 DETERMINATION OF ACARICIDES IN HONEY BY HIGH
PERFORMANCE LIQUID CHROMATOGRAPHY IN TANDEM WITH
MASS SPECTROMETRY DETECTOR-RAPID AND EASY
SCREENING METHOD (RES METHOD)
Charles LEVESQUE, Vincent BEDARD, and François BELAND
- D80 NOVEL HYDROPHILIC-INTERACTION STATIONARY PHASE WITH
PHOSPHORYLCHOLINE GROUP AND ITS APPLICATIONS TO
POLAR COMPOUNDS
Chen LV, Taketoshi KANDA, Kenichi SAKUMA, Yousuke TOUJO, Isao
TANAKA, Masami ISHIDA, Xiaomi.XIN, Osamu SHIRODA
- D81 POLYMER-COATED C₁₈ STATIONARY PHASE DESIGNED FOR
HIGH-SENSITIVITY AND HIGH-THROUGHPUT ANALYSES IN
LC-MS
Xiaomi XIN, Chen LV, and Osamu SHIROTA
- D82 ALTERNATIVE LC COLUMNS FOR HYDROPHILIC COMPOUNDS
FOR BETTER DETECTION AND SEPARATION IN LC/MS
Osamu SHIROTA, Xiaomi XIN, and Chen LV
- D83 TRENDS IN SUPERCRITICAL FLUID CHROMATOGRAPHY(SFC)
Ziqiang WANG
- D84 RELIABLY DETECT 86 OF PESTICIDES IN A SINGLE RUN DOWN
TO 10pg WITH GC/MS IN THE BEIJING FOOD LAB
Meng YUAN, Hui XIAO, Mengyin SUN and Yasong ZHAO
- D85 AUTOMATED SAMPLE PREPARATION FOR MULTIPLE GAS
CHROMATOGRAPHIC ANALYSES OF BIODIESEL
James D. MCCURRY *, Wesley NORMAN, Wenmin LIU
- D86 BOILING POINT RANGE OF FATTY ACID METHYL ESTERS USING
THE 7890A GAS CHROMATOGRAPH, LOW THERMAL MASS (LTM)
SYSTEM, AND 7693A TOWER AND TRAY
L. Firor ROGER, Chunxiao WANG
- D87 PREPARATION, CHARACTERIZATION, AND APPLICATION OF NEW

- SUPERFICIALLY POROUS SILICA PARTICLES FOR FAST HPLC SEPARATION
Wu CHEN, Ta-Chen WEI, John SCONE, William LONG
- D88 GC SOLUTIONS FOR SIMULTANEOUS ANALYSIS OF GREENHOUSE GASES
 ChunXiao WANG
- D89 MODIFIED QUECHERS: VARIANT SOLVENT SYSTEMS IN RESPONSE TO THE ACETONITRILE SHORTAGE
 Joan STEVENS, Limian ZHAO and Jerry ZWEIGENBAUM
- D90 FASTER GAS CHROMATOGRAPHIC ANALYSES WITH HIGH EFFICIENCY GC COLUMNS
 Yun ZOU, Cikui LIANG and Kenneth G. LYNAM
- D91 OPTIMIZING RECOVERIES OF PLANAR PESTICIDES IN SPINACH
 Limian ZHAO, and Joan STEVENS
- D92 RAISING THE BAR IN CAPILLARY GC COLUMN INERTNESS PERFORMANCE
 Yun ZOU, Cikui LIANG, Kenneth G. LYNAM, John J. HARLAND and Allen K. VICKER
- D93 FAST, DIRECT HPLC ANALYSIS OF TAURINE, GABA AND THEANINE IN ENERGY DRINKS
 John H, Judy BERRY, Rongjie FU
- D94 AMINO ACID HPLC METHODS USING MANY COLUMN CONFIGURATIONS FOR A RANGE OF SPEED AND RESOLUTION OPTIONS
 John H, Rongjie FU
- D95 UHPLC OF A BIOCIDES MIXTURE
 Judy B, John H, Rongjie FU
- D96 DETERMINATION OF PBDEs IN FISH MEAT BY LCMS WITH ON-SAMPLE CLEAN UP GPC SYSTEM
 Feng JI, Jinting YAO, Hongyuan HAO, Yuki HASHI
- D97 APPLICATION OF MULTI-IMPURITY ADSORPTION SPE (MAS) FOR THE DETERMINATION OF DRUGS IN SERUM
 Jianwang LI, Qihui NI

- D98 SIMULTANEOUS SEPARATION AND DETERMINATION IODIDE AND THIOCYANATE BY ION CHROMATOGRAM WITH UV DETECTOR
Xia JIAO, Fuqiang ZHU, Lanling YANG , Xuewu GAI
- D99 DEVELOPMENT OF A MIXED STATIONARY PHASE AND A HPLC METHOD WITHOUT ION-PAIRING AGENTS TO SEPARATE PHTHALOCYANINE ZINC COMPLEX
Yong HAN, Wan WANG
- D100 A NEW METHOD OF DETERMINATION OF MELAMINE AN CYANURIC ACID IN MILK-MULTI-FUNCTION IMPURIT ADSORPTION SPE (MAS)
Junxiong FENG
- D101 COMPARISON OF SCX-C18 MIX-PHASE WITH THE SEQUENTIAL COMBINATION OF SCX AND C18 COLUMNS FOR BASIC COMPOUNDS' SEPARATION
Qunjie WANG
- D102 COMPARISON OF THE AMIDES WITH THE AMINOPROPYL STATIONARY PHASE IN HILIC MODE FOR THE SEPARATION OF POLAR COMPOUNDS
Qunjie WANG
- D103 THE APPLICATION OF MIX-PHASE TECHNOLOGY IN HPLC
Shuolei WANG, Wan WANG
- D104 THE APPLICATION OF MIX-PHASE TECHNOLOGY IN SPE
Shuolei WANG, Wan WANG
- D105 RESEARCH OF SEVERAL POLYMER SPE MATERIAL'S PERFORMANCE ON DIFFERENT COMPOUNDS AT DIFFERENT PH
Wan WANG
- D106 ANALYSIS OF CHINESE MEDICINE ZUO JIN PILL BY USING ULTRA HIGH PERFORMANCE LIQUID CHROMATOGRAPHY
Zhixiu XU, Herbert GODEL
- D107 ULTRA HIGH PERFORMANCE LIQUID CHROMATOGRAPHY SYSTEM WITH OPTIMIZED CONFIGURATION AND PERFORMANCE
Zhixiu XU, Herbert GODEL

SCHEDULE OF SESSIONS

E. MAGNETIC RESONANCE

CHAIRMAN: Prof. Maili LIU

ORAL LECTURES

Time: Nov. 26, 2009 PM (Thursday)

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

13:30-13:35 **Opening Speech by Prof. Chaohui YE**

Chairman: Prof. Chaohui YE

13:35-14:05 E2 **STRUCTURE AND MECHANISM OF MUTAGENIC DNA POLYMERASE X**
Ming-Daw TSAI (Keynote)
Institute of Biochemical Sciences, Academia Sinica, Taiwan

14:05-14:25 E3 **UNDERSTANDING DNA DAMAGE AND REPAIR FROM DOUBLE-HELICAL DEOXYRIBONUCLEIC ACID STRUCTURES CONTAINING 1-METHYLADENINE**
Sik Lok LAM
Department of Chemistry, The Chinese University of Hong Kong, China

14:25-14:45 E4 **NMR STRUCTURAL DETERMINATION FOR THREE PEPTIDES OF BIOLOGICAL SIGNIFICANCE**
Donghai LIN
Laboratory of Biomolecular NMR, Shanghai Institute of Materia Medica, Chinese Academy of Sciences, China

14:45-15:15 E5 **NMR WITH MULTIPLE RECEIVERS MOLECULAR STRUCTURE FROM A SINGLE EXPERIMENT**
Eriks KUPCE (Keynote)
Varian Ltd. NMR & MRI Systems, The Magnet Technology Centre, UK

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

Chairman: Prof. Ming-Daw TSAI

15:30-16:00 E6 **THE POWER OF COMBINED USE NMR SPECTROSCOPY AND X-RAY CRYSTALLOGRAPHY IN MODERN STRUCTURAL BIOLOGY**
Ming-Jie ZHANG (Keynote)
Department of Biochemistry, The Hong Kong University of Science and Technology, China

16:00-16:20	E7	SOLUTION STRUCTURE ACTIVE AND CATALYTIC MECHANISM OF HUMAN PHOSPHOHISTIDINE PHOSPHATASE I Bin XIA Beijing NMR Center, Peking University, Beijing, China
16:20-16:50	E8	APPLICATIONS OF NMR DIFFUSION MEASUREMENTS TO MOLECULAR DYNAMICS William S. PRICE (Keynote) Nanoscale Organisation and Dynamics Group, College of Health and Science, University of Western Sydney, Australia
16:50-17:10	E9	A LAGER INTRINSICALLY DISORDERED REGION IN SKIP AND ITS DISORDER-ORDER TRANSITION INDUCED BY PPIL1 BINDING REVEALED BY NMR Yunyu SHI Hefei National Laboratory for Physical Sciences at Microscale and School of Life Sciences, University of Science and Technology of China, China

Time: Nov. 27, 2009 AM (Friday)

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

Chairman: Prof. Jinyuan ZHOU

8:30-9:00	E10	MEASURING MAGNETIC SUSCEPTIBILITY CHANGES IN NEURO-DEGENERATIVE DISEASES USING ULTRA HIGH FIELD MRI Gary EGAN (Keynote) Centre for Neuroscience, University of Melbourne, Australia
9:00-9:30	E11	ULTRA HIGH FIELD MRI 7.0T-WHAT TO EXPECT AND WHAT WE CAN DO Zang-Hee CHO (Keynote) Neuroscience Research Institute, Gachon University of Medicine and Science, Korea
9:30-9:50	E12	EARLY DETECTION ALZHEIMER'S DISEASE STROKE AND TUMOR BY ACTIVE FEEDBACK MAGNETIC RESONANCE Zhao LI Department of Chemistry and Biochemistry, UCLA, USA
9:50-10:10	E13	PROBING NEURAL ACTIVITIES IN AWAKE, FREELY MOVING RODENTS WITH MANGANESE ENHANCED MAGNETIC RESONANCE IMAGING Hao LEI State Key Laboratory of Magnetic Resonance and Molecular and Atomic Physics, Wuhan Institute of Physics and

Mathematics, The Chinese Academy of Sciences, China

10:10-10:25

Coffee Break

Chairman: Prof. Gary EGAN

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| | | MOLECULAR IMAGING USING ENDOGENOUS PROTEINS AND PEPTIDES IN TISSUE |
| 10:25-10:55 | E14 | Jin-Yuan ZHOU (Keynote)
School of Medicine, The Johns Hopkins University, USA |
| | | INSTRUMENTAL ANALYSIS BY MAGNETIC RESONANCE FOR PHYSICAL ONCOLOGY, MOLECULAR IMAGING, AND NANO MEDICINE |
| 10:55-11:25 | E15 | Yung-Ya LIN (Keynote)
Department of Chemistry & Biochemistry, University of California, Los Angeles, USA |
| | | SENSITIVITY ENHANCEMENT OF HYPERPOLARIZED XENON NMR AND MRI VIA PHASE TRANSITION |
| 11:25-11:55 | E16 | Xin ZHOU (Keynote)
University of California, Berkeley, Lawrence Berkeley National Laboratory, USA |

12:00-13:30

Lunch

Time: Nov. 27, 2009 PM (Friday)

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

Chairman: Dr. Eriks KUPCE

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| | | STRUCTURE AND DYNAMICS OF mRNA EXPORTER DBP5 AND ITS INTERACTION WITH NUCLEOTIDES |
| 13:30-14:00 | E17 | Dai-Wen YANG (Keynote)
Department of Biological Sciences, National University of Singapore, Singapore |
| | | STRUCTURE AND FUNCTION OF Ni-CHAPERONE HypA AND SlyD |
| 14:00-14:30 | E18 | Hongzhe SUN (Keynote)
Department of Chemistry, The University of Hong Kong, China |
| | | STRUCTURAL INSIGHTS INTO THE HUMAN Mcm6-Cdt1 INTERACTIONS REQUIRED FOR PRE-REPLICATIVE COMPLEX ASSEMBLY |
| 14:30-14:50 | E19 | Guang ZHU
The Department of Biochemistry and Center for Cancer Research, The Hong Kong University of Science and Technology, China |

14:50-15:05

Coffee Break

Chairman: Prof. Yunyu SHI

STRUCTURAL INSIGHTS INTO NRSE/REST BINDING SPECIFICITY TO NRSE/RE1 dsRNA AND dsDNA INVOLVED ON NEURON GENE ACTIVATION

15:05-15:25 E20 **Chunyang CAO**
State Key Laboratory of Natural Products and Bio-organic Chemistry, Shanghai Institute of Organic Chemistry, Chinese Academy of Sciences, China

NMR STUDIES OF THE FUSION PEPTIDE OF SINGLE NUCLEOCAPSID NUCLEOPOLYHEDROVIRUS F PROTEIN

15:25-15:55 E21 **Ling JIANG** (Keynote)
State Key Laboratory of Magnetic Resonance and Atomic and Molecular Physics, Wuhan Institute of Physics and Mathematics, The Chinese Academy of Sciences, China

SITE SPECIFIC ¹⁹F INCORPORATION INTO PROTEINS FOR NMR ANALYSIS

15:55-16:15 E22 **Changlin TIAN**
School of Life Science, University of Science and Technology of China, China

16:15-17:30

POSTER

Time: Nov. 28, 2009 AM (Saturday)

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

Chairman: Prof. Maili LIU

THE UNPARALLELED ADVANTAGES OF ¹³C-DETECTION OPTIMIZED CRYOPROBES IN NMR-BASED MIXTURE ANALYSIS

8:30-9:00 E23 **Istvan PELCZER** (Keynote)
Princeton University, Department of Chemistry, Frick Lab., USA

NMR STUDIES OF THE STRUCTURE-BIOACTIVITY RELATIONSHIPS OF GALLIC ACID METABOLITES FROM CHEMISTRY TO THE HOLISTIC METABONOMIC UNDERSTANDINGS

9:00-9:20 E24 **Huiru TANG**
State Key Laboratory of Magnetic Resonance and Molecular and Atomic Physics, Wuhan Institute of Physics and Mathematics, The Chinese Academy of Sciences, China

9:20-9:40 E25 ¹H NMR-BASED METABOLOMICS INVESTIGATION ON THE NEPHROTOXICITY INDUCED BY CINNABAR
Lai WEI
Changchun Institute of Applied Chemistry, Chinese Academy of Sciences, Changchun, China

9:40-10:00 E26 METABONOMICS IN WORMY WORLD
Yulan WANG
State Key Laboratory of Magnetic Resonance and Molecular and Atomic Physics, Wuhan Institute of Physics and Mathematics, The Chinese Academy of Sciences, China

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

Chairman: Prof. Riqiang FU

10:15-10:45 E27 PROPOSED MECHANISM OF HOOOH FORMATION IN THE TWO TYPICAL ENZYME REACTIONS RESPONSIBLE FOR SUPEROXIDE ANION PRODUCTION IN THE BIOLOGICAL SYSTEM
Masahiro KOHNO (Keynote)
New Industry Creation Hatchery Center, Tohoku University, Japan

10:45-11:05 E28 REACTIVITY OF SURFACE ETHOXY SPECIES ON ACIDIC ZEOLITES STUDIED BY SOLID-STATE NMR SPECTROSCOPY
Wei WANG
State Key Laboratory of Applied Organic Chemistry, Lanzhou University, Lanzhou, China

11:05-11:25 E29 ACIDITY CHARACTERIZATION OF LIQUID AND SOLID ACIDS BY P-31 NMR USING TRIALKYLPHOSPHINE OXIDES AS PROBES
Shang-Bin LIU
Institute of Atomic and Molecular Sciences, Academia Sinica, Chinese Taipei

11:25-11:45 E30 COHERENT EXCITATION WITH PHASE INCREMENTED PULSES
Shan-Min ZHANG
Department of Physics, East China Normal University, China

12:00-13:30 **Lunch**

Time: Nov. 28, 2009 PM (Saturday)

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

Chairman: Prof. Guang ZHU

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| | | APPLICATIONS OF FLOW-ESR TECHNIQUE FOR MECHANISTIC STUDY OF BIOLOGICAL FREE RADICAL REACTIONS |
| 13:30-14:00 | E31 | Kunihiko TAJIMA (Keynote)
Department of Biomolecular Engineering, Kyoto Institute of Technology, Japan |
| | | DEVELOPMENT OF L-BAND AND X-BAND ESR IMAGING SYSTEM AND PRIMARY APPLICATIONS |
| 14:00-14:20 | E32 | Baolu ZHAO
Institute of Biophysics, Academia Sinica, Beijing, China |
| | | INVESTIGATION OF THE DEVELOPMENT OF THE SESAME SEED WITH SOLID STATE NMR SPECTROSCOPY AND MICRO-IMAGING |
| 14:20-14:40 | E33 | Shangwu DING
Department of Chemistry & Center for Nanoscience and Nanotechnology, National Sun Yat-sen University, Chinese Taipei |
| | | STRUCTURAL CHANGES INDUCED BY MICROALLOYING IN $\text{Cu}_{46}\text{Zr}_{47-x}\text{Al}_7\text{Gd}_x$ METALLIC GLASSES |
| 14:40-15:00 | E34 | Xuekui XI
Department of Physics and Astronomy, University of North Carolina, Chapel Hill, USA |

15:00-15:15

Coffee Break

Chairman: Prof. Shangbin LIU

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|-------------|-----|---|
| | | EPR AND NMR STUDIES DIIMINE NICKEL COMPLEX/ZIRCONOCENE/MAO/ ZnEt_2 SYSTEM FOR ETHYLENE POLYMERIZATION |
| 15:15-15:35 | E35 | Li WANG
State Key Laboratory of Chemical Engineering, Department of Chemical and Biological Engineering, Zhejiang University, Hangzhou 310027, People's Republic of China |
| | | STRUCTURAL AND DYNAMIC CHARACTERIZATION OF MEMBRANE BOUND PEPTIDES IN HYDRATED LIPID BILAYERS USING HIGH-RESOLUTION SOLID-STATE NMR AT HIGH FIELDS |
| 15:35-16:05 | E36 | Ri-Qiang FU (Keynote)
National High Magnetic Field Laboratory, USA |

16:05-16:25	E37	SOLID STATE NMR INVESTIGATION OF ANHYDROUS PROTON EXCHANGE MEMBRANE POLY(2, 5-BENZIMIDAZOLE) –POLY(VINYL- PHOSPHONIC ACID) ACID-BASE POLYMER BLENDS Peter P. CHU Department of Chemistry, National Central University, Chung Li, Chinese Taipei
16:25-16:45	E38	EFFECT OF CRITICAL MOLECULAR WEIGHT OF PEO IN EPOXY/POLY (ETHYLENE OXIDE) BLENDS AS REVEALED BY SOLID-STATE NMR SPECTROSCOPY Pingchuan SUN Key Laboratory of Functional Polymer Materials (MOE) and Institute of Polymer Chemistry, College of Chemistry, Nankai University, China
17:00		Conference Closed

POSTER SESSION

Time: Nov. 27, 2009 PM (Friday) 16:15-17:30

Location: 2nd Floor of the Central Garden Hotel

- E39 THE DISTINGUISH AND EVALUATION OF ROCK PORE FLUID WITH MR-ML TECHNOLOGY
Zhizhan WANG, Xiaoqiong XU
- E40 SOLID-STATE NMR IN THE STRUCTURAL STUDY OF COAL
Rui SONG¹, Tieying PAN¹, Yi XU², Dexiang ZHANG²
- E41 STUDY OF CRYSTALLINE PHASE STRUCTURES OF EO AND EB COPOLYMERS BY SOLID STATE NMR AND DSC
Xiuzhi GAO, Liying WANG, Huan LUO, Pingping REN, Jiwen FENG*
- E42 SOLID-STATE NMR STUDIES OF THE MOLECULAR DYNAMICS OF DL-ALPHA-AMINO-N-BUTYRIC ACID
Pingping REN, Xiuzhi GAO, Huiru TANG*
- E43 ¹H NMR STUDY ON MICELLIZATION OF THE ZWITTERIONIC SURFACTANT CHAPS
Xianguo QIN^{1, 2}, Chaohui YE², Maili LIU², Daiwen YANG^{3*}, Xu ZHANG^{2*}
- E44 GF-IDNSS : A NOVEL FAST MULTIPLE DIMENSIONAL NMR TECHNIQUE
Bin JIANG, Xianwang JIANG, Nan XIAO, Xu ZHANG, Maili LIU
- E45 SYNTHESIS AND EVALUATION OF GD-DTPA-LABELED GLYCYRRHIZIC ACID AS MRI CONTRAST AGENT
Weisheng LI, Xiaojing LI and Fengkui PEI
- E46 AN INTEGRATED METABONOMIC INVESTIGATION ON THE ACUTE BIOCHEMICAL EFFECTS OF PRASEODYMIUM NITRATE
Peiqiu LIAO, Lai WEI, Xiaojing LI, and Fengkui PEI
- E47 OPTIMIZATION OF THE EXTRACTION METHOD FOR THE NMR-BASED PLANT MATABONOMIC ANALYSIS
Xiangyu WU^{1,2} and Huiru TANG¹
- E48 EFFECTS OF INTRAUTERINE GROWTH RESTRICTION ON THE METABONOMES OF SERUM AND JEJUNUM IN WEANLING PIGLETS
Qinghua HE¹, Pingping REN¹, Xiangfeng KONG², Jie PAN², Yulan WANG¹ and Yulong YIN²
- E49 THE NMR-BASED METABONOMIC STUDY ON NEONATAL ACUTE

- RESPIRATORY DISTRESS SYNDROME
Bo SUN¹, Xihong LIU², Zongyi DING², Xianzhong YAN¹
- E50 A METABOLOMIC ANALYSIS OF PLASMA METABOLITES IN THE db/db MOUSE
Xuan MAO¹, Dongjuan ZHANG², Youfei GUAN², Xianzhong YAN¹
- E51 ¹H NMR-BASED METABONOMIC STUDY OF METABOLIC CHANGES IN THE URINE OF FEMALE PATIENTS WITH FUNCTIONAL DYSPEPSIA AND THE EFFECT OF ACUPUNCTURE
Juan LIU¹, Qiaofeng WU², SUN BO¹, Xiulan QIAO², Yong TANG², Shuguang YU², Fanrong LIANG², Xianzhong YAN¹
- E52 IMQC MRI SIGNAL ENHANCEMENT VIA SQUARE WAVE MODULATED DISTANT DIPOLAR FIELD
Congbo CAI, Shuhui CAI, Huijun SUN and Zhong CHEN*
- E53 NMR-BASED METABONOMICS STUDY ON VEGETARIAN URINE
Jingjing XU¹, Xuejun LI², Shuhui CAI^{1,*}, Jiyang DONG¹ and Zhong CHEN¹
- E54 HIGH-RESOLUTION IZQC COSY IN INHOMOGENEOUS FIELDS
Yuqing HUANG, Shuhui CAI, Zhiwei CHEN and Zhong CHEN*
- E55 SPATIALLY ENCODED INTERMOLECULAR MULTI-QUANTUM COHERENCE NMR SPECTROSCOPY
Yulan LIN, Shuhui CAI, Zhenyao ZHENG and Zhong CHEN*
- E56 TEST TECHNOLOGY OF GAS MOVABILITY SATURATION IN HIGH PRESSURE BY NMR
Genhua SHANG, Yunqing SHI, Dongjiang LANG, Chunpeng ZHAO
- E57 ¹H HRMAS NMR INVESTIGATION ON PHASE TRANSITION OF POLY (N-ISOPROPYLACRYLAMIDE) GELS WITH AND WITHOUT GRAFTED COMB-TYPE CHAINS
Geying RU, Jiwen FENG*
- E58 INTERMOLECULAR MULTIPLE-QUANTUM COHERENCE NMR SIGNALS OF SPIN-1 SYSTEM
Wen ZHANG, Guiping SHEN, Shuhui CAI* and Zhong CHEN
- E59 LONGITUDINAL MRI ASSESSMENT OF NEUROTRAUMA IN A MOUSE MODEL OF FOCAL TRAUMATIC BRAIN INJURY (TBI)
HongXin WANG¹, Nicole BYE², Cristina Morganti-Kossmann² and Gary EGAN¹
- E60 METABONOMIC CHARACTERIZATION OF HUMAN COLORECTAL CANCER USING HIGH RESOLUTION ¹H NMR SPECTROSCOPY
Wenxue CHEN¹ Xiaoyan ZHOU² Dan HUANG² Fener CHEN^{1,*} and Xiang I

- GRADE CLASSIFICATION OF HUMAN BRAIN TUMOR USING HRMA
NMR SPECTROSCOPY AND PATTERN RECOGNITION
E61 Wenxue CHEN^{1,2} Haiyan LOU^{3,4} Xiu NIE⁵ Jianqiu QI³ Fener CHEN^{2*} Feng
DENG^{1*}
- A NMR DATA CONVERTER FOR SPECTRAL SYMMETRIC
OPERATION BASED ON FAST FOURIER TRANSFORM
E62 ALGORITHM
Liang YANG, Peng HU, Chaoyang LIU
- NMR GRAPHICAL PULSE PROGRAMMING ENVIRONMENT
E63 Qingjia BAO^{1,2}, Yiqun CHEN¹, Chaoyang LIU¹, Chaohui YE^{1,2}
- AN ETHERNET-BASED NMR CONSOLE
E64 Wenping MAO^{1, 2}, Chaoyang LIU¹
- THE SYNTHESIS AND SPIN TRAPPING STEREOCHEMISTRY OF A
NEW LINEAR CHIRAL SPIN TRAP
E65 Libo DU, Guangqing WANG, Yuanchao Xu, Hongying JIA,; Qiu TIAN,
Yang LIU*
- COVALENT CONNECTION OF EMPO ON L-Tyr: SYNTHESIS AND
ESR STUDY
E66 Yang LIU*, Libo DU, Guangqing WANG, Yuanchao Xu, Hongying JIA,
Qiu TIAN
- NMR STUDY ON THE MECHANISM OF TOCOPHEROL AND ITS
DERIVATIVES REACTION WITH DPPH RADICAL
E67 Hongying JIA¹, Ying YANG², Qiu TIAN¹, Libo DU¹, Baozhen YAN², Yang
LIU^{1*}
- THE SYNTHESIS AND ANTIOXIDANTION OF BIOCOMPATIBLE
TROLOX- FUNCTIONALIZED GOLD NANOPARTICLES
E68 Yuanchao XU, Libo DU, Guangqing WANG, Hongying JIA, Qiu TIAN,
Yang LIU*
- THE SYNTHESIS AND PROPERTIES OF DANSHENSU
FUNCTIONALIZED GOLD NANOPARTICLES
E69 Guangqing WANG, ;Libo DU, Yuanchao XU, Hongying JIA, Qiu TIAN,
Yang LIU*
- SOLID-STATE NMR STUDIES ON THE INTERACTION BETWEEN
THE HOST AND GUEST MOLECULES IN QUATERNARY
E70 AMMONIUM INTERCALATED α -ZIRCONIUM PHOSPHATE
Binbin WANG, Gaofei HU, Mei WANG, Canxiong GUO¹
- SOLID-STATE NMR STUDIES ON BRØNSTED/LEWIS ACID
SYNERGY IN DEALUMINATED HZSM-5 AND H-MORDENITE
E71 ZEOLITES
Zhiwu YU, Shenhui LI, Jun XU, Anmin ZHENG, Lei CHEN and Feng

DENG

- E72 IDENTIFICATION AND QUANTITATION OF 3 METABOLITES BY NMR
Nan XIAO, Bin JIANG, Maili LIU
- E73 METABONOMIC VARIATIONS OF *THREE SALVIA MILTIORRHIZA BUNGE* CULTIVARS BY THE COMBINED NMR AND LC-DAD-MS ANALYSES
Hui DAI^{1,3}, Chaoni XIAO^{1,2,3}, Hongbing LIU^{1,3}, Fuhua HAO¹, Huiru TANG^{1*}
- E74 EFFECT OF EDTA ON NMR CHEMICAL SHIFTS OF URINARY METABOLITES
Limiao JIANG¹ and Huiru TANG¹
- E75 METABOLIC ALTERATIONS IN HAMSTERS COINFECTED WITH *SCHISTOSOMA JAPONICUM* AND *NECATOR AMERICANUS*
Junfang WU^{1,2}, Huiru TANG¹, Yulan WANG^{1,*}
- E76 LOW TEMPERATURE ACTIVATION OF METHANE: NMR OBSERVATION OF SURFACE METHOXY SPECIES
Jun XU, Xiumei WANG, Hanjun FANG and Feng DENG
- E77 SOLUTION STRUCTURE OF *DROSOPHILA* SNF: IMPLICATIONS FOR ITS ROLE IN *SEX-LETHAL* SPLICING
Jicheng HU^{1,2,3}, Gaofeng CUI^{1,3}, Congmin LI^{1,3}, Cong LIU², Erchang SHANG³, Luhua LAI³, Changwen JIN^{1,2,3}, Jiwu WANG⁴, Bin XIA^{1,2,3}
- E78 SOLUTION STRUCTURE AND DNA-BINDING OF C-DOMAIN OF LSR2 FROM *MYCOBACTERIUM TUBERCULOSIS*
Yifei LI^{1,2}, Songhai TIAN^{1,3}, Changwen JIN^{1,2,3} & Bin XIA^{1,2,3}
- E79 SOLUTION STRUCTURE AND DIMERIZATION OF POPLAR GRXS14
Lei WANG^{1,3}, Yifei LI^{1,2}, Changwen JIN^{1,2,3} & Bin XIA^{1,2,3}
- E80 BASIC FUNCTIONAL STUDY OF THE H-REV107 PROTEIN FROM *HOMO SAPIENS* AND THE SOLUTION STRUCTURE OF ITS N-TERMINAL DOMAIN
Xiaobai REN^{1, 2}, Hejia WEI^{1, 2}, Yanjun LI¹, Shuo WAN^{2, 3}, Changwen JIN^{1, 2, 3}, Jian LIN^{1, 2} and Bin XIA^{1, 2, 3}
- E81 METABOLITE PROFILES OF PLASMA FROM TRANSGENIC CARP BY NMR-BASED METABONOMICS
Fuhua HAO¹, Huiru TANG¹, Yulan WANG¹ and Wei HU²
- E82 MULTINUCLEAR SOLID-STATE NMR STUDY ON THE FORMATION MECHANISM OF AIPO4-11 ZEOLITES IN IONIC LIQUIDS
Renshun XU¹, Weiping ZHANG^{*1}, Jun XU², Xiuwen HAN¹, Feng DENG², Xinhe BAO^{*1}

SCHEDULE OF SESSIONS

F. ELECTROANALYTICAL CHEMISTRY

CHAIRMAN: Prof. Yuanhua SHAO

ORAL LECTURES

Time: Nov. 26, 2009 PM (Thursday)

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. Hubert H. GIRAULT

13:35-14:05 F2 SOLID-STATE ELECTROCHEMILUMINESCENT
DETECTOR WITH TRIS (2,2'-BIPYRIDYL) RUTHENIUM
Erkang WANG (Keynote)
Changchun Institute of Applied Chemistry, Chinese Academy
of Sciences (CAS), China

14:05-14:35 F3 SECOND HARMONIC GENERATION AS A TOOL TO
PROBE MOLECULAR ORGANIZATION AT THE
NANOMETER SCALE : APPLICATION TO THE
CONFORMATION OF PEPTIDES AT INTERFACES
Pierre-François BREVET (Keynote)
Université Claude Bernard Lyon 1, France

14:35-15:05 F4 IMPLANTABLE ELECTROCHEMICAL GLUCOSE
MICROSENSOR BASED ON NANOCOMPOSITES-
PROGRESS AND PROBLEM
Xueji ZHANG (Keynote)
World Precision Instruments, Inc., USA

15:05-15:25 F5 ELECTROCHEMICAL AND
ELECTROCHEMILUMINESCENCE BIOSENSORS
BASED ON NANOPARTICLES
Junjie ZHU
Nanjing University, CHINA

15:25-15:50

Coffee Break

Chairman: Prof. Pierre-François BREVET and Prof. Shaojun DONG

15:50-16:20 F6 ELECTROCHEMICAL CHEMO/BIOSENSING
TECHNIQUES USING NEW FUNCTIONAL MATERIALS

Shouzhuo YAO (Keynote)
Hunan University and Hunan Normal University, China

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| 16:20-16:40 | F7 | <p>PtNPs/CNTs HYBRID MATERIAL WITH EXCELLENT ELECTROCATALYTIC ACTIVITY</p> <p>Xiurong YANG
Changchun Institute of Applied Chemistry, Chinese Academy of Sciences (CAS), China</p> |
| 16:40-17:00 | F8 | <p>PREPARATION OF POLYMER-ENZYMES-MULTIWALLED CARBON NANOTUBES NANOCOMPOSITE FILMS BY LACCASE-CATALYSED POLYMERIZATION OF DOPAMINE FOR BIOSENSING AND BIOFUEL CELL APPLICATIONS</p> <p>Qingji XIE
Hunan Normal University, China</p> |
| 17:00-17:20 | F9 | <p>APPLICATION OF SINGLE-WALLED CARBON NANOHORN FOR SOLID-PHASE EXTRACTION AND SIMULTANEOUS ELECTROCHEMICAL DETERMINATION OF URIC ACID, DOPAMINE, AND ASCORBIC ACID</p> <p>Guobao XU
Changchun Institute of Applied Chemistry, Chinese Academy of Sciences (CAS), China</p> |

Time: Nov. 27, 2009 AM (Friday)

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

Chairman: Prof. Shouzhuo YAO and Prof. Takashi KAKIUCHI

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| 8:00-8:30 | F10 | <p>INVESTIGATION ON BIOSENSING APPLICATION OF SEMICONDUCTOR NANO-CRYSTALS</p> <p>Hongyuan CHEN(Keynote)
Nanjing University, China</p> |
| 8:30-9:00 | F11 | <p>ELECTROCHEMICAL DETECTION USING LASER-INDUCED FLUORESCENCE FOR CAPILLARY HPLC</p> <p>Stephen WEBER(Keynote)
University of Pittsburgh, USA</p> |
| 9:00-9:20 | F12 | <p>INTERFACIAL BEHAVIOR OF BIOMOLECULES AND BIOELECTROCHEMICAL ANALYSIS</p> <p>Xinghua XIA
Nanjing University, China</p> |
| 9:20-9:40 | F13 | <p>CHEMICALLY CONVERTED GRAPHENE:</p> |

FUNCTIONALIZATION AND NANOCOMPOSITES

Li NIU

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

- 9:40-10:00 F14 PROCESSING OF GRAPHENE FOR ELECTROCHEMICAL APPLICATION: NONCOVALENTLY FUNCTIONALIZE GRAPHENE SHEETS WITH WATER-SOLUBLE ELECTROACTIVE METHYLENE GREEN
Meining ZHANG
Remin University, China

10:00-10:30

Coffee Break

Chairman: Prof. Stephen WEBER and Prof. Junjie ZHU

- 10:30-11:00 F15 LAYER-BY-LAYER ASSEMBLED MULTILAYER FILMS FOR CONTROLLED RELEASE OF GENE
Shaojun DONG(Keynote)
Changchun Institute of Applied Chemistry, Chinese Academy of Sciences (CAS), China
- 11:00-11:20 F16 pH-SENSITIVE “ON-OFF” BEHAVIOR OF LAYER-BY-LAYER FILMS AND ITS APPLICATION IN CONTROLLING BIOELECTROCATALYSIS
Naifei HU
Beijing Normal University, China
- 11:20-11:40 F17 THIONIN ATTACHED TO A GOLD ELECTRODE MODIFIED WITH SELF-ASSEMBLY OF MO₆S₉-XIX NANOWIRES FOR AMPLIFIED ELECTROCHEMICAL DETECTION OF NATURAL DNA
Meixian LI
Peking University, China
- 11:40-12:00 F18 TiO₂ BASED PLATFORM FOR SENSITIVE ANALYSIS OF PHOSPHORYLATED PROTEINS
Baohong LIU
Fudan University, China

Time: Nov. 27, 2009 PM (Friday)

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

Chairman: Prof. Shigeru AMEMIYA and Prof. Xinghua XIA

- 13:30-14:00 F19 ELCTROCATALYSIS BY NANOPARTICLES: ELECTROCHEMICAL PREPARATION OF -MnOOH

NANORODS, CHARACTERIZATION AND
ELECTROCATALYTIC APPLICATIONS

Takeo OHSAKA (Keynote)

Tokyo Institute of Technology, Japan

14:00-14:30 F20 REDOX REACTIONS OF METAL COMPLEXES
FORMED WITH AMYLOIDOGENIC PEPTIDES AND
PROTEINS AND THEIR ROLES IN OXIDATIVE STRESS
ASSOCIATED WITH NEURODEGENERATIVE
DISEASES

Feimeng ZHOU (Keynote)

California State University, USA

14:30-14:50 F21 DESIGN OF ONE-TO-ONE RECOGNITION DNA PROBE
BASED ON TRIPLE AU NANOPARTICLES BIO BAR
CODES

Shusheng ZHANG

Qingdao University of Science and Technology, China

14:50-15:10 F22 ELECTROCHEMICAL INVESTIGATION ON THE
BINDING INTERACTION OF POLYCYCLIC AROMATIC
HYDROCARBONS WITH DNA

Lianghong GUO

Research Centre for Eco-environmental Sciences, Chinese
Academy of Sciences (CAS), China

15:10-15:30 F23 THREE-DIMENSIONAL MOLECULAR IMPRINTING
WITH A 2D SAM FOR PARATHION-METHYL
RECOGNITION

Guoyue SHI

East China Normal University, China

15:30-16:00

Coffee Break

Chairman: Prof. Takeo OHSAKA and Prof. Lanqun MAO

16:00-16:30 F24 THE APPLICATION OF NANOTECHNOLOGY IN
ULTRASENSITIVE DETECTION OF MICRORNAs

Zhiqiang GAO

Institute of Bioengineering and Nanotechnology, Singapore

16:30-16:50 F25 STUDYING LECTIN-BINDING SPECIFICITY OF
BACTERIA BY LECTIN MICROARRAY AND
ELECTROCHEMISTRY

Zhenxin WANG

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

16:50-17:10 F26 IN SITU SCANNING TUNNELING MICROSCOPY AND
MICROCANTILEVER ON MOLECULAR

INTERACTIONS AT THE LIQUID/SOLID INTERFACE

Bailin ZHANG

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

ELECTROCHEMICAL SENSOR FOR MELAMINE BASED ON ITS COPPER COMPLEX

17:10-17:30 F27 **Zhiwei ZHU**

Peking University, China

Time: Nov. 28, 2009 AM (Saturday)

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

Chairman: Prof. Zhuan ZHOU and Prof. Lianghong GUO

8:00-8:30 F28 SIGNIFICANCE OF STABLE LIQUID-JUNCTION POTENTIAL OF IONIC LIQUID SALT BRIDGE IN LOW IONIC STRENGTH SOLUTIONS

Takashi KAKIUCHI (Keynote)

Kyoto University, Japan

8:30-9:00 F29 FROM SENSING TO NANOMATERIAL CHARACTERIZATION: ELECTROANALYTICAL APPLICATIONS OF ION TRANSFER AT LIQUID/LIQUID INTERFACES

Shigeru AMEMIYA (Keynote)

University of Pittsburgh, USA

9:00-9:20 F30 A CHIP-TO-CHIP NANOLITER MICROFLUIDIC DISPENSER AND IT'S APPLICATIONS IN BIOANALYTICAL CHEMISTRY

Yanyi HUANG

Peking University, China

9:20-9:50

Coffee Break

Chairman: Prof. Feimeng ZHOU and Prof. Zhiqiang GAO

9:50-10:20 F31 MODULATION OF DOPAMINE RELEASE BY ACTION POTENTIAL CODES IN RAT BRAIN STRIATUM: AN AMPEROMETRIC STUDY

Zhuan ZHOU (Keynote)

Peking University, China

10:20-10:40 F32 ELECTROANALYTICAL APPROACHES TO UNDERSTANDING BRAIN CHEMISTRY

Lanqun MAO

Institute of Chemistry, Chinese Academy of Sciences (CAS),

China

10:40-11:00

Close section by Yuanhua SHAO

POSTER SESSION

Time: Nov. 27, 2009 AM (Friday)

Location: 2nd Floor of the Central Garden Hotel

- F33 ION CURRENT RECTIFICATION AND ION TRANSFER REACTION
AT LIQUID/LIQUID INTERFACES
Qing LI, Shujuan LIU, Yuanhua SHAO*
- F34 INCREASED LEVEL OF CATECHOL ISOQUINOLINES IN FETAL
RAT BRAIN AFTER ETHANOL TREATMENT
Jian MAO, Yang SU, Jieyu FAN, Yan XU, Fankai LIN, Rui WANG, Yulin
DENG*
- F35 ELECTROCHEMILUMINESCENCE DISPLACEMENT METHOD FOR
THE STUDY OF WEAK BINDING OF POLYCYCLIC AROMATIC
HYDROCARBONS WITH DNA
Rongfu HUANG, Lirong WANG, Lianghong GUO*
- F36 NANO-ELECTROCATALYTIC PROPERTY OR LACK OF IT ON
INDIUM TIN OXIDE AND GOLD NANOPARTICLE MODIFIED
ELECTRODE
Mingyuan WEI, Rongfu HUANG, Lianghong GUO*
- F37 ELECTROCHEMISTRY OF NANOZEOLITE IMMOBILIZED
CYTOCHROME C IN NONAQUEOUS SOLUTIONS
Kai GUO, Yahong ZHANG, Edmond MAGNER, Baohong LIU*
- F38 FLUORESCENT HYBRIDIZATION DETECTION OF DNA USING
HAIRPIN DNA MODIFIED WITH FLUORESCENT NUCLEOTIDE
BASE ANALOGS PYRROLO-DC AS FLUORESCENCE PROBE
Hongge ZHANG, Chengxiao ZHANG*
- F39 TWO DIFFERENT ELECTROGENERATED CHEMILUMINESCENCE
APTAMER-BASED BIOSENSORS BASED ON TARGET-INDUCED
APTAMER DISPLACEMENT
Bo SUN, Jie YUE, Tingting LI, Honglan QI, Qiang GAO, Chengxiao
ZHANG*
- F40 KINETIC STUDIES OF IMMOBILIZED DNAZYME INTERACTION
WITH Pb²⁺ USING ELECTROGENERATED CHEMILUMINESCENCE
Fen MA, Na YANG, Wuwei YAN, Ting ZHANG, Honglan QI, Chengxiao
ZHANG*

- F41 MAGNETIC BEAD-GOLD NANOCOMPLEX FOR THE DETERMINATION OF ROMAS CELLS
Caifeng DING, Ying GE, Shusheng ZHANG*
- F42 A NOVEL TYPE OF HIGHLY SENSITIVE HORSE RADISH PEROXIDASE BIOSENSOR BASED ON BACTERIA CELLULOSE NANOFIBERS/GOLD NANOPARTICLES BIOCOMPOSITE
Wei WANG, Dewen ZHANG, Taiji ZHANG, Yurong MA, Limin QI Yinglin ZHOU*, Xinxiang ZHANG*
- F43 DIRECT ELECTROCHEMISTRY AND ELECTROCATALYSIS OF HEMOGLOBIN IMMOBILIZED IN A MAGNETIC NANOPARTICLES-CHITOSAN FILM
Xia ZHOU, Weiying YANG, Xiangjun LI and Zhuobin YUAN*

SCHEDULE OF SESSIONS

G. ANALYTICAL TECHNIQUES IN LIFE SCIENCES

CHAIRMAN: Prof. Xiaohong QIAN

ORAL LECTURES

Time: Nov. 26, 2009 PM (Thursday)

Location: Splendid Garden Hall, Central Garden Hotel

Chairman: Dr. Cornelius E. UBOH and Prof. Guoan LUO

13:30-14:00	G2	HIGH-THROUGHPUT UPLC-MS/MS METHOD FOR DETECTION, QUANTIFICATION AND CONFIRMATION OF 55 ANABOLIC STEROIDS IN EQUINE PLASMA Cornelius E. UBOH (Keynote) University of Pennsylvania, and Pennsylvania Equine Toxicology & Research Center, USA
14:00-14:30	G3	RESEARCH AND DEVELOPMENT OF TRADITIONAL CHINESE MEDICINE IN THE POST-GENOME ERA Guoan LUO (Keynote) Modern Research Center of Traditional Chinese Medicine, Institute of Biomedicine, Tsinghua University, China
14:30-15:00	G4	THE STUDIES ON THE CLINICAL SIGNIFICANCE OF SERUM PEPTIDES FINGERPRINT MEASURED BY MALDI-TOF MS Yaping TIAN (Keynote) Department of Clinical Biochemistry, Chinese PLA General Hospital, China
15:00-15:30	G5	CORRELATION OF PRODUCT ION PROFILES WITH MOLECULAR STRUCTURES OF ANABOLIC STEROIDS IN LC-MS Fuyu GUAN (Keynote) University of Pennsylvania, USA
15:30-15:40		Coffee Break
15:40-16:10	G6	INTERACTIONS OF ORGANORUTHENIUM ANTICANCER COMPLEXES WITH

SULFUR-CONTAINING BIOMOLECULES

Fuyi WANG (Keynote)

Beijing National Laboratory for Molecular Sciences,
Institute of Chemistry, Chinese Academy of Sciences, China

SCREENING OF MUSHROOM TOXINS BY LIQUID CHROMATOGRAPHY – MASS SPECTROMETRY (LC-MS/MS)

16:10-16:40

G7

Samuel Tsz-Chun CHEUNG

Analytical and Advisory Services Division, Government
Laboratory, Hong Kong, China

BIOMONITORING OF EXPOSURE TO SULFUR MUSTARD

16:40-17:10

G8

Jianwei XIE

Institute of Pharmacology and Toxicology, Academy of
Military Medical Sciences, China

Time: Nov. 27, 2009 AM (Friday)

Location: Splendid Garden Hall, Central Garden Hotel

Chairman: Prof. Xian CHEN and Prof. Siqi LIU

REVEALING NOVEL PROTEIN FUNCTIONS THROUGH PROTEOMIC SCREENING OF ENDOGENOUS PROTEIN-PROTEIN INTERACTIONS

8:30-9:00

G9

Xian CHEN (Keynote)

Department of Biochemistry and Biophysics School of
Medicine, University of North Carolina, USA

QUANTITATIVE PROTEOMICS DISCOVERS THE MOLECULAR EVENTS RELATED WITH DEVELOPMENT OF STRESS TOLERANCE IN RICE EMBRYO

9:00-9:30

G10

Siqi LIU (Keynote)

Beijing Institute of Genomics, Chinese Academy of
Sciences, China

A SIMPLE LABEL-FREE STRATEGY TOWARDS COMPREHENSIVE PROTEOMIC SIGNATURES: OPPORTUNITIES FOR MINING THERAPEUTIC TARGETS AND BIOMARKERS

9:30-10:00

G11

Yu-Ju CHEN (Keynote)

Institute of Chemistry, Academia Sinica, Chinese Taipei

10:00-10:30	G12	QUANTITATIVE SERUM PROTEOMICS USING INTACT PROTEIN ANALYSIS SYSTEM (IPAS) AND NANO LC-MS/MSMS Hong WANG (Keynote) Fred Hutchinson Cancer Research Center, USA
10:30-10:40		Coffee Break
10:40-11:10	G13	ADAPTATION INTO THE HOST ENVIRONMENT: PROTEOMICS STUDIES OF SALMONELLA PHOP/PHOQ REGULATION Lin GUO (Keynote) College of Life Sciences, Wuhan University, China
11:10-11:40	G14	SPACE ENVIRONMENT AND ITS BIOMEDICAL EFFECTS Yulin DENG (Keynote) School of Life Science, Beijing Institute of Technology, China
11:40-12:10	G15	MITOCHONDRIAL PROTEOMICS Fuquan YANG Proteomic Platform, Institute of Biophysics, Chinese Academy of Sciences, China

Time: Nov. 27, 2009 PM (Friday)

Location: Splendid Garden Hall, Central Garden Hotel

Chairman: Dr. Tiemin HUANG and Prof. Shu WANG

13:30-14:00	G16	FULL SEPARATION PATH DETECTION CAPILLARY ISOELECTRIC FOCUSING FOR HIGH RESOLUTION PROTEIN SEPARATION Tiemin HUANG (Keynote) Department of Mechanical and Mechatronics Engineering, University of Waterloo, Canada
14:00-14:30	G17	CONJUGATED POLYELECTROLYTES: BIOSENSING, IMAGING AND THERAPY Shu WANG (Keynote) Key Laboratory of Organic Solids, Institute of Chemistry, Chinese Academy of Sciences, China

14:30-15:00	G18	CAPILLARY ELECTROPHORESIS OF LIVING CELLS Yi CHEN (Keynote) Beijing National Laboratory for Molecular Sciences, Institute of Chemistry, Chinese Academy of Sciences, China
15:00-15:30	G19	NEW APPROACHES FOR THE SEPARATION AND ENRICHMENT OF GLYCOPROTEINS Zhen LIU School of Chemistry and Chemical Engineering, Nanjing University, China
15:30-15:40		Coffee Break
15:40-16:10	G20	DEVELOPMENT AND APPLICATIONS OF APTAMERIC MOLECULAR PROBES FOR BIOANALYSIS Dihua SHANGGUAN (Keynote) Beijing National Laboratory for Molecular Sciences, Institute of Chemistry, Chinese Academy of Sciences, China
16:10-16:40	G21	OPTIMISATION AND STANDARDISATION OF SAMPLE PREPARATION WITH THE BEAD BEATING TECHNOLOGY IN LIFE SCIENCES Elina MACHEFER Bertin Technologies /CNIM Group, Hong Kong, China
16:40-17:10	G22	FROM BIOMARKER DISCOVERY TO VALIDATION: NEW ADVANCEMENT USING MICROFLUID-BASED HPLC-CHIP COUPLED TO MASS SPECTROMETER Ning TANG Agilent Technologies, USA

Time: Nov. 28, 2009 AM (Saturday)

Location: Splendid Garden Hall, Central Garden Hotel

(Young Investigator Presentations)

Chairman: Profs. Xiaohong QIAN and Zhen LIU

8:30-8:50	G23	APPLYING METALLOMICS TO IMMUNOLOGY: A STUDY OF METAL REGULATION IN MACROPHAGES INFECTED WITH <i>HISTOPLASMA CAPSULATUM</i> Qilin CHAN
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Department of Chemistry, University of Cincinnati, USA

8:50-9:10	G24	METABOLOMIC ANALYSIS OF LIVER AND MUSCLE TISSUES IN C57BL/6J AND DBA/2J MICE EXPOSED BY TCDD Shuhai LIN Department of Chemistry, Hong Kong Baptist University, Hong Kong, China
9:10-9:30	G25	PREPARATION OF A PACKED CAPILLARY COLUMN WITH A MONOLITHIC EMITTER AND ITS APPLICATION IN PROTEOMICS STUDY Weijie QIN State Key Laboratory of Proteomics, Beijing Proteome Research Center, Beijing Institute of Radiation Medicine, China
9:30-9:50	G26	THE NITRATED PROTEOME IN THE HEART MITOCHONDRIA OF THE DB/DB MOUSE MODEL: CHARACTERIZATION OF NITRATED TYROSINE RESIDUES IN SCOT Yuan WANG Beijing Institute of Genomics, Chinese Academy of Sciences, China
9:50-10:10	G27	APPLICATIONS OF PROTEIN MICROARRAY TECHNOLOGY FOR PROTEOMIC RESEARCH Qiongming LIU State Key Laboratory of Proteomics, Beijing Proteome Research Center, Beijing Institute of Radiation Medicine, China
10:10-10:40		Coffee Break & Poster Session
10:40-11:00	G28	OXIDATIVE STRESS: A NEW POTENTIAL PATHWAY FOR PREVENTING FROM NEURAL TUBE DEFECTS Zhiting JIANG East-China University of Science & Technology, and Tsinghua University, China

11:00-11:20	G29	ISOLATION AND CHARACTERIZATION OF IMMUNOSUPPRESSION AND ANTI-INFLAMMATORY POLYSACCHARIDE FRACTION FROM <i>PERIPLOCA FORRESTII</i> SCHLTR Lei SUN Institute of Pharmacology and Toxicology, Academy of Military Medical Sciences, China
11:20-11:40	G30	IMPROVED ¹⁸O STABLE ISOTOPE LABELING METHOD FOR QUANTITATIVE PROTEOME ANALYSIS Yan ZHAO State Key Laboratory of Proteomics, Beijing Proteome Research Center, Beijing Institute of Radiation Medicine, China
11:40-12:00	G31	EXPLORING PROTEOME RESPONSES OF <i>ALKALIMONAS AMYLOLYTICA</i> N10 TO DIFFERENT EXTERNAL PHS WITH COMBINATION STRATEGY OF <i>DE NOVO</i> PEPTIDE SEQUENCING Quanhui WANG Beijing Institute of Genomics, Chinese Academy of Sciences, China

POSTER SESSION

Time: Nov. 27, 2009 PM (Friday) 17:10-17:40 & Nov. 28, 2009 AM (Saturday)

10:10-10:40

Location: 2nd Floor of the Central Garden Hotel

G32 SIMULTANEOUS ANALYSIS OF ATROPINE AND ITS METABOLITES IN HOMOGENIZED LIVER TISSUE OF RAT BY LIQUID CHROMATOGRAPHY-MASS SPECTROMETRY
Xueguo CHEN

G33 RAPID AND LARGE SCALE PREPARATION OF OLEANANE-TYPE SAPONIN FROM PANAX GINSENG BY HIGH PERFORMANCE COUNTER-CURRENT CHROMATOGRAPHY
Yijun CHENG

G34 MOLECULAR MECHANISM STUDY ON THE ANTI-CARDIOTOXICITY OF A NOVEL PIRARUBICIN LIPOSOME POWDER
Wenjuan CONG

G35 THE OCCURRENCE AND PROPERTY OF SALSOLINOL SYNTHASE
Zhenzhen CONG

G36 DETERMINATION OF N-METHYL SALSOLINOL IN PARKINSONIAN LYMPHOCYTES BY HIGH PERFORMANCE LIQUID CHROMATOGRAPHY – TIME OF FLIGHT MASS SPECTROMETRY
Jinyan DUAN

G37 PRELIMINARY STUDY ON A MESENCHYMAL STEM CELL-MODEL FOR SCREENING TRADITIONAL CHINESE MEDICINE
Xuemei FAN

G38 STUDY OF INTERACTIONS BETWEEN TLR4 AND LPS USING MOBILITY SHIFT METHODS
Huiqing FU

G39 MAGNETIC BEAD BASED IMMUNOASSAY FOR ENUMERATION OF CD⁴⁺ T LYMPHOCYTES ON A MICROFLUIDIC DEVICE
Dan GAO

- G40 STUDY ON IMMUNOSUPPRESSIVE ANIMAL MODEL BY
AUTOMATIC HEMOCYTE ANALYZER
Lei GONG
- G41 CHARACTERIZATION BY ESI-MS AND EXPRESSION OF
SEMICARBAZIDE- SENSITIVE AMINE OXIDASE
Ningxin GUAN
- G42 SEPARATION OF A NEW ACTIVE INGREDIENT FROM
HONEYSUCKLE CRUDE EXTRACTS BY MACROPOROUS RESINS
He HU
- G43 SYNTHESIS AND ADSORPTION PROPERTIES OF FAST BLUE BB
BASE MOLECULARLY IMPRINTED POLYMER
Xuan HU
- G44 DRUG-RELEASE PROPERTIES OF KONJAC GLUCOMANNAN
WITH DIFFERENT MOLECULAR WEIGHTS
Yuanyuan JI
- G45 AN EFFECTIVE ELECTROCHEMICAL METHOD FOR
INVESTIGATION OF HEMOGLOBIN UNFOLDING BASED ON
REDOX PROPERTY OF HEME GROUPS
Xianchan LI
- G46 SYNTHESIS AND EVALUATION OF A MOLECULARLY
IMPRINTED POLYMER BASED ON ARBUTIN
Xiaoxiao LI
- G47 ¹H NMR-BASED METABOLOMIC APPROACH FOR
UNDER-STANDING THE EFFECTS ON NERVOUS SYSTEM OF
RAT EXPOSED TO HEAVY ION RADIATION
Yanli LI
- G48 METABOLOMIC STUDY OF CHINESE MEDICINE SHUANGLONG
FORMULA AS AN EFFECTIVE TREATMENT FOR MYOCARDIAL
INFARCTION IN RATS BASED ON UPLC-TOFMS
Xiaoping LIANG
- G49 RECENT ADVANCES IN MICROFLUIDIC CHIP-BASED LIQUID
CHROMATOGRAPHY IN LC/MS ANALYSIS
Dayin LIN
- G50 SINGLE BEAD-BASED FAST IMMUNOASSAY ON A

- MICROFLUIDIC CHIP
Chuansen LIU
- G51 PROTEOMICS RESEARCH ON BIOFILM FORMATION OF PLANT GROWTH
Yang LIU
- G52 THE PROGRESS OF LIFE SCIENCES ANALYSIS TECHNOLOGY REFLECTED FROM “CHINA ASSOCIATION FOR INSTRUMENTAL ANALYSIS (CAIA) AWARD”
Yang LIU
- G53 PEG-SCUTELLARIN PRODRUG: SYNTHESIS AND PROTECTIVE EFFECT ON CEREBRAL ISCHEMIA/REPERFUSION INJURY
Juan LU
- G54 INFLUENCE OF FOLATE ON GENE EXPRESSIONS IN FOLATE METABOLISM CYCLE ON BMSCS
Shufeng LV
- G55 FLUORESCENCE DETERMINATION OF 1-HOP USING SIA COUPLED WITH ON-LINE SOLID PHASE MICROEXTRACTION
Rui MA
- G56 AN INTEGRATED APPROACH OF DISEASE GENES AND METABOLIC PROFILING TO PREDICT THE POTENTIAL TARGET PATHWAY OF DIABETIC NEPHROPATHY
Yingbo MIAO
- G57 QUANTIFICATION OF HYPOXANTHINE, XANTHINE AND URIC ACID BY HPLC IN HUMAN SERUM AFTER HIGH INTENSITY EXERCISE
Jing SHAO
- G58 EFFECT OF MUSK PILLS ON GENE EXPRESSION PROFILE IN MYOCARDIAL ISCHEMIA RATS
Mei SHI
- G59 DIFFERENTIAL PROTEOMICS ANALYSIS OF BIOLOGICAL EFFECT OF HEAVY ION RADIATION ON RAT
Hongbin WANG
- G60 A RAPID ISOLATION AND IDENTIFICATION METHOD FOR BLOCKED N-TERMINAL PEPTIDES BY ISOTHIOCYANATE-

- COUPLED MAGNETIC NANOPARTICLES AND MASS SPECTROMETRY
Junying WEI
- G61 RESEARCH OF ACE AND AGTR2 GENE EXPRESSION AT DIFFERENT STAGES OF DIABETIC NEPHROPATHY
Yuyang WU
- G62 SEMI-CROSSLINKED POLYACRYLAMIDES AS HIGH-RESOLUTION AND DYNAMIC SELF-COATING SIEVING MATRICES FOR PROTEIN CAPILLARY ELECTROPHORESIS
Jiandong XU
- G63 SYNTHESIS OF RHODAMINE-B MOLECULARLY IMPRINTED POLYMERS AND THE PRELIMINARY EVALUATION OF SELECTIVITY
Tianshuai XU
- G64 LYSOZYME PROTEIN THIN-FILM MOLECULARLY IMPRINTED POLYMERS FORMED USING A MICRO-CONTACT APPROACH
Wentao ZHAO
- G65 SPECTROSCOPIC MEASUREMENT FOR THE COMPLEXATION CONSTANT OF CYCLODEXTRIN AND TERT-BUTYL-ALCOHOL
Zhongjie ZHAO
- G66 IDENTIFICATION OF THE SPECIFIC FUNCTION OF GLYCOSYLTRANSFERASE GENE IN ESCHERICHIA COLI BY ELECTROSPRAY IONIZATION TANDEM MASS SPECTROMETRY
Dawei ZHOU
- G67 IMMUNOPRECIPITATION METHOD APPLIED IN PROTEIN DNA APTAMERS SELECTION
Xiaoping ZHOU
- G68 SYNTHESIS OF IMIDAZOLIUM-CATION OF CHIRAL IONIC LIQUIDS
Yuansong ZHOU
- G69 QUANTITATIVE PROTEOMICS ANALYSIS OF BIOLOGICAL EFFECT OF PROTON RADIATION ON SHSY5Y CELLS
Ye ZHU

SCHEDULE OF SESSIONS
H. ENVIRONMENTAL ANALYSIS
CHAIRMAN: Prof. Guibin JIANG

ORAL LECTURES

Time: Nov. 26, 2009 PM (Thursday)

Location: Permanent Garden Hall, Central Garden Hotel

13:30-13:40

Opening Address

Chairman: Prof. Guibin JIANG and Prof. Fuoco ROGER

ELEMENTAL AND SPECIATION IMAGING OF
ENVIRONMENTAL SAMPLES WITH SYNCHROTRON
X-RAY ANALYSIS

13:40-14:10

H2

Freddy ADAMS (Keynote)

Micro-Trace Analysis Centre, Department of Chemistry,
University of Antwerp, B-2610 Wilrijk, Belgium

MEASUREMENT OF ENVIRONMENTAL ORGANOTINS IN
HUMAN CELLS LEADS TO IDENTIFICATION OF THE
PROTEASOME AS A POTENTIAL TARGET

14:10-14:40

H3

Q. Ping DOU (Keynote)

The Prevention Program, Barbara Ann Karmanos Cancer
Institute, and Department of Pathology, School of Medicine,
Wayne State University, Detroit, Michigan, MI 48201, USA

HIGH-THROUGHPUT DRUG ANALYSIS BY LC/MS IN
THE PHARMACEUTICAL INDUSTRY

Perry G. WANG (Keynote)

14:40-15:10

H4

Food and Drug Administration (FDA), Office of Regulatory
Science, Division of Bioanalytical Chemistry, HFS-717, 5100
Paint Branch Parkway, College Park, MD 20740, USA

15:10-15:30

Coffee Break

REMOVAL OF ARSENATE WITH FERRIC CHLORIDE
COPRECIPITATION: EFFECT OF HUMIC ACID

Chuanyong JING (Keynote)

15:30-16:00 H5 State Key Laboratory of Environmental Chemistry and Ecotoxicology, Research Center for Eco-Environmental Sciences, Chinese Academy of Sciences, Beijing 100085, China

OCCURRENCE OF MONOETHYLMERCURY IN THE
FLORIDA EVERGLADES: IDENTIFICATION AND
VERIFICATION

Yong CAI (Keynote)

16:00-16:30 H6 Department of Chemistry & Biochemistry and Southeast Environmental Research Center, Florida International University, Miami, Florida, 33199, USA

POSTER

16:30-17:30

Location: 2nd Floor of the Central Garden Hotel

Time: Nov. 27, 2009 AM (Friday)

Location: Permanent Garden Hall, Central Garden Hotel

Chairman: Prof. Antonius KETTRUP and Prof. Qiuquan WANG

DEVELOPMENT OF NOVEL METHODS FOR ANALYSIS
OF ARSENIC SPECIES IN WATER

Xiaoguang MENG (Keynote)

8:30-9:00 H7 Center for Environmental Systems, Stevens Institute of Technology, Hoboken, NJ 07030, USA

IN VIVO MONITORING OF CONTAMINANTS IN FISH
MUSCLE WITH SOLID-PHASE MICROEXTRACTION

Gangfeng OUYANG (Keynote)

9:00-9:30 H8 School of Chemistry and Chemical Engineering, Sun Yat-Sen University, Guangzhou 510275, China

TANDEM MASS SPECTROMETRY STUDIES OF ARSENIC
SPECIES IN ENVIRONMENT AND HUMAN HEALTH

X. Chris LE (Keynote)

9:30-10:00 H9 Analytical and Environmental Toxicology Division, Department of Laboratory Medicine and Pathology, University of Alberta, 10-102 Clinical Sciences Building, Edmonton, Alberta, T6G 2G3, Canada

10:00-10:20

Coffee Break and Poster

GEOCHEMICAL BEHAVIOUR OF METAL
CONTAMINANTS IN SEDIMENTS OF VICTORIA
HARBOUR, HONG KONG

10:20-10:50 H10 **Xiang-dong LI** (Keynote)

Department of Civil and Structural Engineering, The Hong Kong
Polytechnic University, Hung Hom, Kowloon, Hong Kong

CHEMICAL AND BIOLOGICAL SPECIATION OF METALS
AND THEIR BIOAVAILABILITY

10:50-11:20 H11 **Wen-Xiong WANG** (Keynote)

Department of Biology, Hong Kong University of Science and
Technology (HKUST), Clearwater Bay, Kowloon, Hong Kong

ALTERNATIVE METHOD FOR AIRBORNE
CONTAMINATION SAMPLING

Elina MACHEFER

11:20-11:40 H12 Bertin Technologies, Biotech System Department, Parc
d'Activités du Pas du Lac, 10bis Avenue Ampère, F-78180
Montigny le Bretonneux, France

Time: Nov. 27, 2009 PM (Friday)

Location: Permanent Garden Hall, Central Garden Hotel

Chairman: Prof. Janusz PAWLISZYN and Prof. Xiande LIU

AN ARRAY CAPILLARY IN-TUBE SOLID PHASE
MICROEXTRACTION TECHNIQUE

Yafeng GUAN (Keynote)

13:30-14:00 H13 Dept. of Instrumentation & Analytical Chemistry, Key Lab of
Separation Science for Analytical Chemistry, CAS, Dalian
Institute of Chemical Physics, Chinese Academy of Sciences,
457 Zhongshan Road, Dalian 116023, China

TIME TRENDS OF POPs LEVELS RECORDED IN THE SOIL
CORE FROM TIANBAO ROCK, A STATE NATURAL
RESERVATION IN SOUTHEASTERN CHINA

14:00-14:30 H14 **Qiuquan WANG** (Keynote)

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

		PORTABLE ATOMIC ABSORPTION/EMISSION SPECTROMETERS FOR ENVIRONMENTAL ANALYSIS Xiandeng HOU (Keynote) College of Chemistry and Analytical & Testing Center, Sichuan University, Chengdu, Sichuan 610064, China
14:30-15:00	H15	
15:00-15:20		Coffee Break
		EMISSION AND MONITORING OF AIR POLLUTANTS Antonius KETTRUP (Keynote) Technical University of Munich and GSF – Institute of Ecological Chemistry, Weihenstephaner Steig 23 , D-85350 Freising – Weihenstephan, Germany
15:20-15:50	H16	
		SELENIUM SPECIATION IN SE-ENRICHED PLANTS BY HPLC-ICPMS AND ESI-ITMS Qilin CHAN (Keynote) Department of Chemistry, University of Cincinnati, Cincinnati, OH 45221, USA
15:50-16:20	H17	
		DETERMINATION OF HYDROXYLATE METABOLITES OF POLYCYCLIC AROMATIC HYDROCARBONS IN SEDIMENT SAMPLES BY SUBCRITICAL WATER EXTRACTION COUPLED WITH DISPERSED LIQUID-LIQUID MICROEXTRACTION Tiangang LUAN (Keynote) State Key Laboratory of Biocontrol/ MOE Key Laboratory of Aquatic Product Safety, School of Life and Marine Sciences, Sun Yat-Sen University, Guangzhou 510275, China
16:20-16:50	H18	
		LEAD ISOTOPE RATIOS APPLIED TO STUDIES OF CHILDHOOD LEAD POISONING IN THE PEARL RIVER DELTA REGION OF CHINA Jianmin CHEN Shenzhen Center for Chronic Disease Control, Shenzhen 518020, China Global Application Laboratory, PerkinElmer Analytical Sciences, Shelton, CT 06484, USA
16:50-17:10	H19	
		AUTOMATION OF SOLID PHASE EXTRACTION Haibin WAN PromoChrom Technologies Ltd. 212-10951 Mortfield Road, Richmond, BC V7A2W5, Canada
17:10-17:30	H27	

Time: Nov. 28, 2009 AM (Saturday)

Location: Permanent Garden Hall, Central Garden Hotel

Chairman: Prof. Freddy ADAMS and Prof. X. Christ LE

- A FOUR CENTURY FIRN CORE RECORD OF PAHS AND PCBS AT TALOS DOME, VICTORIA LAND (ANTARCTICA)
- 8:30-9:00 H20 **Roger FUOCO** (Keynote)
Department of Chemistry and Industrial Chemistry, University of Pisa, Pisa, Italy
- ABSORPTION AND METABOLISM OF BROMINATED DIPHENYL ETHER-209 IN FISHES FROM AN E-WASTE RECYCLING SITE
- 9:00-9:30 H21 **Zongwei CAI** (Keynote)
Department of Chemistry, Hong Kong Baptist University, Kowloon Tong, Kowloon, Hong Kong, China
- CLOUD POINT EXTRACTION OF NANOMATERIALS: A NOVEL APPROACH FOR THE ANALYSIS OF TRACE NANO SILVER AND HG(II) IN ENVIRONMENTAL WATERS
- 9:30-10:00 H22 **Jingfu LIU** (Keynote)
State Key Laboratory of Environmental Chemistry and Ecotoxicology, Research Center for Eco-Environmental Sciences, Chinese Academy of Sciences, Beijing, 100085, China
- 10:00-10:20 **Coffee Break**
- DEVELOPMENT OF NEW TECHNIQUES FOR SAMPLE PREPARTION AND THEIR APPLICATION
- 10:20-10:50 H62 **Jianmin BAO** (Keynote)
The School of Pharmaceutical Science and Technology, Tianjin University, Tianjin, 300072, China
- INVESTIGATION OF PB CONTAMINATION IN VEGETABLES AND SOILS
- 10:50-11:10 H23 **Zhi-yong HUANG**
College of bioengineering, Jimei University, Xiamen, 361021, China

CONSTRUCTION OF LIGAND BINDING DOMAIN OF
ESTROGEN RECEPTOR FOR ANALYSIS OF THE
ESTROGENIC ENVIRONMENTAL POLLUTANTS

11:10-11:30 H24 **Meiping ZHAO**

The Institute of Analytical Chemistry, College of Chemistry and
Molecular Engineering, Peking University, Beijing 100871,
China

ION CHROMATOGRAPHY—A RELIABLE AND
ACCURATE WAY OF MEASURING IONIC
CONSTITUENTS IN ENVIRONMENTAL SAMPLES

11:30-11:50 H25 **Joachim WEISS**

Dionex Corporation, Intl. Operations, Am Woertzgarten 10,
65510 Idstein, Germany

11:50

Closing Remarks

POSTER SESSION

Time: Nov. 26, 2009 PM (Thursday) 16:30 & Nov. 27, 2009 AM (Friday)

10:00-10:20

Location: 2nd Floor of the Central Garden Hotel

H28 AN INDIRECT COMPETITIVE ELISA FOR SIMULTANEOUS
DETECTION OF CASEIN AND β -LACTOGLOBULIN IN MILK PRODUCT
Xuena HU, Tong LIU, Xuefei LV and Yulin DENG

H29 A MICROFLUIDIC-BASED DEVICE COMBINED WITH ESI-Q-TOF
MASS SPECTRUM APPLIED ON THE ANALYSIS OF HERBICIDES BY
A SINGLE C₃₀ BEAD
Huibin WEI, Haifang LI and Jinming LIN

H30 GOLD NANOPARTICLE-BASED COLORIMETRIC ASSAY FOR
SELECTIVELY DETECTING ALUMINUM IN DRINKING WATER
Xiaokun LI and Zhenxin WANG

H31 PAHs ANALYSIS IN WATER BY MONOTRAP-GCMS
Jinqiang ZHANG, Yuki HASHI, Jun FAN, Xiaoli DENG and Lei CAO

H32 SOURCE IDENTIFICATION AND REGIONAL DISTRIBUTION OF
HEAVY METALS IN VEGETABLE-GROWN SOILS FROM FUJIAN
PROVINCE, CHINA
Jiang YU and Zhiyong HUANG

H33 PEP-2 WITH HPLC FOR IMPROVING THE RECOVERY OF
CHLORINATED PHENOLS IN WATER
Jing ZHAO

H34 DISTRIBUTION CHARACTERISTICS OF POLYCYCLIC AROMATIC
HYDROCARBONS IN RUNOFF FROM MIDDLE LINE SOURCE AREA
OF SOUTH-TO-NORTH WATER DIVERSION PROJECT
Tianjian ZHOU, Chao TAI, Tongqian ZHAO, Fanfu ZENG and Qingqing
WANG

H35 DISTRIBUTION OF ORGANOMERCURIES IN SURFACE SOILS AND
SEDIMENT OF HUANGPU RIVER, SHANGHAI, CHINA
Erle GAO and Jianshe LIU

- H36 OCCURRENCE OF OCPs IN SURFACE SOILS COLLECTED FROM ZHEJIANG PROVINCE, SOUTHEAST CHINA
Chunyang LIAO, Jungang LV, Fang LIU, Wen SU and Qinzhaoh XUE
- H37 RAPID SEPARATION AND ANALYSIS CHLOROACETANILIDE HERBICIDES BY CAPILLARY ELECTROPHORESIS WITH IONIC LIQUID AS ELECTROLYTE ADDITIVE
Jinli MAO, Junping XIAO and Qingxiang ZHOU
- H38 THE OPTIMIZED ANALYSIS APPROACH FOR FISH TISSUE PROTEASOMAL ACTIVITY AFTER TRIPHENYLTIN EXPOSURE
Juan CHEN, Dong LI, Qing SUN, Xi CHEN, Guangrong ZHONG and Guoqing SHI
- H39 SEPARATION AND DETECTION OF VOLATILE ARSENIC SPECIES BY COTTON COLUMN AND ATOMIC FLUORESCENCE SPECTROMETER
Chungang YUAN, Kegang ZHANG, Zhenhua WANG and Guibin JIANG
- H40 SPECIATION OF CHROMIUM IN AQUEOUS SAMPLES BY A DISPOSABLE CARTRIDGE
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