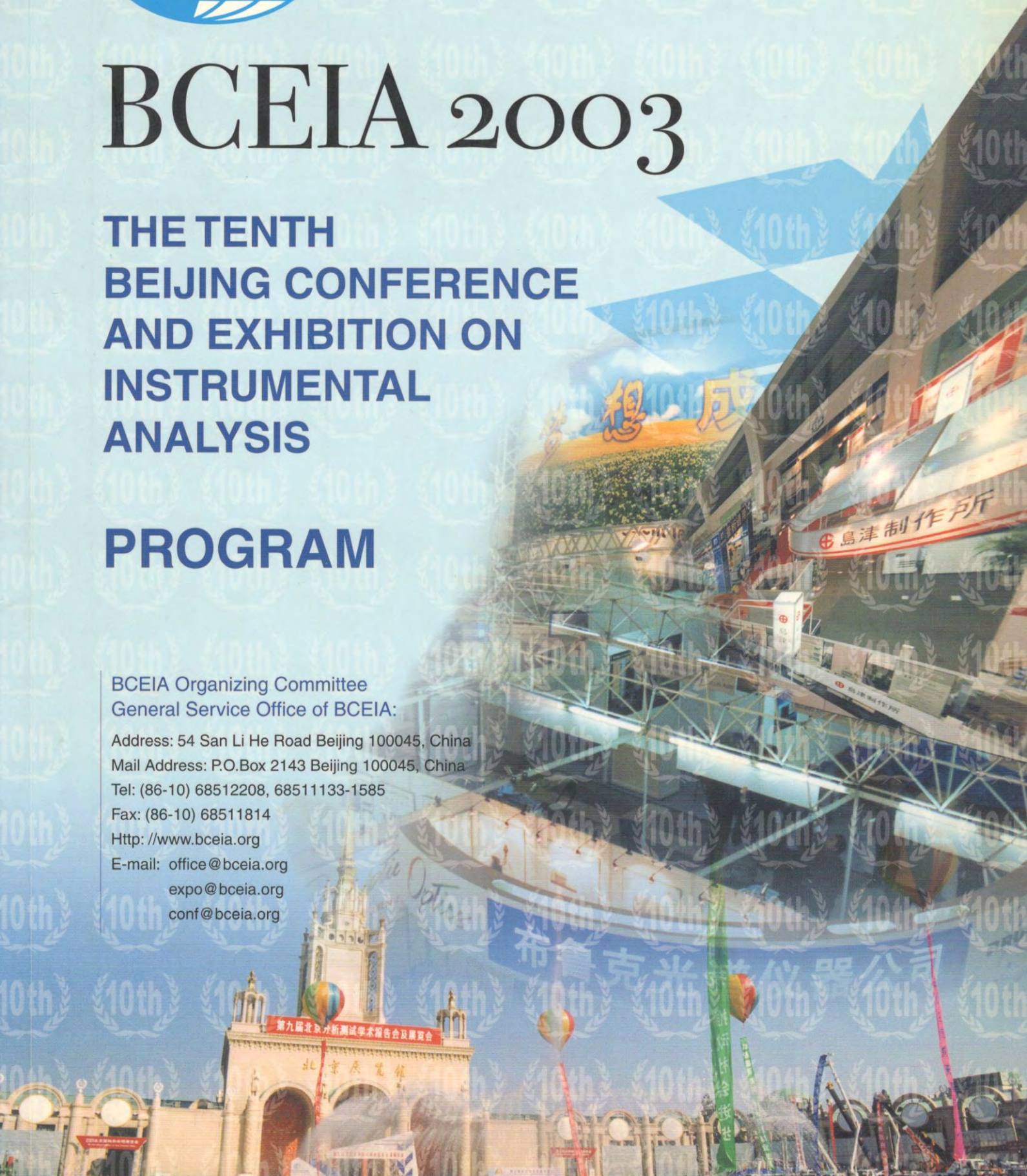
Oct.13 -16, 2003
Beijing, China

BCEIA 2003

THE TENTH BEIJING CONFERENCE AND EXHIBITION ON INSTRUMENTAL ANALYSIS

PROGRAM



BCEIA Organizing Committee
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CONTENT

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FLOOR PLAN OF BCEIA 68

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FOREWORD

The 10th Beijing Conference and Exhibition on Instrumental Analysis(BCEIA 2003), sponsored by the China Association for Instrumental Analysis, warmly welcomes experts, scholars and manufacturers from all over the world and visitors from all the country.

At this 10th BCEIA, over 500 scholars and experts from over 24 countries and regions will conduct academic exchanges on latest research achievement and will publish 506 papers. At the same times over 200 companies and manufacturers from 12 countries and regions, over 350 booths, will exhibit their latest develop products. During the exhibition technical seminars and trade negotiations will be held. About more than 20,000 visitors from research institutes and universities as well as industries of all the nationwide will visit the exhibition.

The aim of BCEIA is to develop academic and technical exchanges in the field of analytical instruments, promote scientific and technical cooperation between China and other countries throughout the world and further up analytical technology and scientific instruments industry. We will strive to offer our best services to domestic and foreign scholars, manufacturers as well as users, and do our best to make BCEIA 2003 a great success.

The 11th BCEIA (BCEIA 2005) will be held in October 2005 in Beijing. We hope you and more participants will be present.

We wish BCEIA 2003 a great success!

Let's meet again in 2005 in Beijing!

ORGANIZATION

President

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

Organizing Committee

Chairman

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

Vice Chairman

Prof. Shunchang WANG	Vice President and Secretary General of China Association for Instrumental Analysis (CAIA)
Prof. Xiguan MA	Standing Member of Board of China Association for Instrumental Analysis (CAIA)
Prof. Benli HUANG *	Vice President of Chinese Spectroscopy Society

Scientific Committee

Chairman

Prof. Benli HUANG *	Vice President of Chinese Spectroscopy Society

Vice-Chairman

Prof. Peichang LU*	Chinese Society of Chromatography

Advisors

Prof. Qinglian ZHANG*	Peking University
Prof. Zhengkai WU*	Chinese Spectroscopy Society

Invited Members

Prof. D.J.H. Cockayne	University of Oxford (UK)
Prof. R. Graham Cooks	Purdue University (USA)
Prof. Alfredo Sanz-Medel	University of Oviedo (Spain)
Prof. A. Kettrup	Technology University of Munich (Germany)
Prof. Steve C.F.Au-Yeung	Chinese University of Hong Kong (Hong Kong)

Prof. R.W. Murray	University of North Carolina (USA)
Prof. Edward S. Yeung	Iowa State University (USA)
Prof. Yuri A. Zolotov	Moscow University (Russia)

Members

Prof. Zhanxia ZHANG	Chinese Spectroscopy Society
Prof. Yukui ZHANG	Chinese Society of Chromatography
Prof. Chaohui YE*	Chinese Society of Magnetic Resonance
Prof. Fengkui PEI	Chinese Society of Magnetic Resonance
Prof. Erkang WANG*	Changchun Institute of Applied Chemistry , CAS
Prof. Guofan JIN*	Tsinghua University
Prof. Liren MA	Academy of Military Medical Science
Prof. Fusheng WEI*	China National Environmental Monitoring Center, CAS
Prof. Hengqiang YE *	Institute of Metal, CAS
Prof. Mingxiao DING	Peking University
Prof. Yongquan LU	Chinese Mass Spectrometry Society
Prof. Dunyi LIU	Chinese Mass Spectrometry Society

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

Program Committee Office

Secretaries:

Head	Prof. Guangzheng MENG (Spectroscopy)
Deputy Head	Prof. Yukui ZHANG (Chromatography)
	Prof. Qing'an MENG(Magnetic Resonance)
	Prof. Yuexia ZHANG(Electroanalytical Chemistry)
	Prof. Guoan LUO (Life Science)
	Prof. Guibin JIANG (Environmental Analysis)
	Prof. Zhuoran LIN (Electron Microscopy)
	Prof. Motian ZHAO (Mass Spectrometry)

AGENDA OF SESSIONS ELECTRON MICROSCOY

Date	Time	Location & Activities	
Oct.12 (Sun.)	8:00-24:00	Lobby, Central Garden Hotel	Registration
Oct.13 (Mon.)	a.m.	Grand Hall, Second floor, Central Garden Hotel Opening Speech: Benli HUANG BCEIA 2003 General Plenary Session Presiding: Peichang LU B1, E1, A 1 Alfredo Sanz-Medel F1, C1, G1	
	p.m.	Visiting Exhibition	
Oct.14 (Tue.)		Room 202	Second Floor Corridor (Poster Session)
	a.m.	Presiding: Hengqiang YE A107, A29, A3, A89 Presiding: David COCKAYNE A9, A119, A5, A129	A19, A23, A35, A37, A39, A41, A43, A45, A47, A49, A51, A53, A55, A57, A61, A63, A65, A67, A71, A73, A75, A77, A79, A81, A83, A85, A87, A95, A99, A101, A105, A115, A123, A125, A127, A135, A139, A143, A147
	p.m.	Presiding: George SMITH A17, A109, A15, A7 --- Visiting Poster Session	
Oct.15 (Wed.)	a.m.	Presiding: Jing ZHU A91, A121, A149, A31 Presiding: C. J. HUMPHREYS A13, A131, A151, A111	
	p.m.	Presiding: Lian-Mao PENG A21, A59, A137, A27, A33, A25, A103, Presiding: J. ZOU A145, A69, A97, A133, A117	
Oct.16 (Thu.)		BCEIA 2003 Sightseeing in Beijing	

AGENDA OF SESSIONS MASS SPECTROMETRY

<table>
<tr><th>Date</th><th>Time</th><th colspan="2">Location & Activities</th></tr>
<tr><td>Oct.12
(Sun.)</td><td>8:00-
24:00</td><td colspan="2">Lobby, Central Garden Hotel Registration</td></tr>
<tr><td rowspan="2">Oct.13
(Mon.)</td><td>a.m.</td><td colspan="2">Grand Hall, Second floor, Central Garden Hotel
Opening Speech: Benli HUANG
BCEIA 2003 General Plenary Session
Presiding: Peichang LU B1, E1, A 1
Alfredo Sanz-Medel F1, C1, G1</td></tr>
<tr><td>p.m.</td><td colspan="2">Visiting Exhibition</td></tr>
<tr><td rowspan="3">Oct.14
(Tue.)</td><td></td><td>Room 205</td><td>Second Floor Corridor
(Poster Session)</td></tr>
<tr><td>a.m.</td><td>Presiding:
Dunyi LIU & R. Graham COOKS
Opening Speech: Jinying LI
B3, B99, B11, B73

Presiding:
Yongquan LU & Philip D.P.TAYLOR
B59, B9, B75, B71, B57, B111</td><td rowspan="2"></td></tr>
<tr><td>p.m.</td><td>Presiding:
Jinying LI & J. E. CANTLE
B21, B129, B109, B25, B53, B63

Presiding:
Shuying LIU & Craig M. WHITEHOUSE
B37, B7, B15, B27</td></tr>
<tr><td rowspan="2">Oct.15
(Wed.)</td><td>a.m.</td><td>Presiding:
Fuxiang WU & Zhongxing CHEN
B65, B23, B39, B91, B95

Presiding:
Shida SHEN & Jianjun LI
B141, B61, B79, B77</td><td rowspan="2">B19, B31-B35, B41-B51, B55,
B67-B69 B81-B85, B89, B97,
B103-B107, B113-B115, B117,
B119-B127,
B131-B139</td></tr>
<tr><td>p.m.</td><td></td></tr>
<tr><td colspan="2">Oct.16
(Thu.)</td><td colspan="2">BCEIA 2003 Sightseeing in Beijing</td></tr>
</table>

AGENDA OF SESSIONS SPECTROSCOPY

Date	Time	Location & Activities	
Oct.12 (Sun.)	8:00-24:00	Lobby, Central Garden Hotel	Registration
Oct.13 (Mon.)	a.m.	Grand Hall, Second floor, Central Garden Hotel Opening Speech: Benli HUANG BCEIA 2003 General Plenary Session Presiding: Peichang LU Alfredo Sanz-Medel	 B1, E1, A 1 F1, C1, G1
	p.m.	Visiting Exhibition	
Oct.14 (Tue.)		Room 207	Second Floor corridor (Poster Session)
	a.m.	Presiding: Benli HUANG, G.M.Hieftje, Zheming NI C5, C3, C7, C11, C9, C23, C25, C19	
	p.m.	Presiding: Zhaolun FANG, Alfredo Sanz-Medel, Zhanxia ZHANG C(Ebdon), C15, C21, C63, C29, C103, C105, C17, C35	C33, C37, C39, C45, C47, C49, C51, C57, C59, C61, C77, C83, C85, C87, C89, C93, C97
Oct.15 (Wed.)	a.m.	Presiding: Qinhan JIN, Alfred GOLLOCH, Jinguang WU C41, C43, C53, C67, C69, C71, C73, C75, C79	
	p.m.	Presiding: Wanyun MA, Mao HUANG, C81, C91, C95, C99, C101	
Oct.16 (Thu.)		BCEIA 2003 Sightseeing in Beijing	

AGENDA OF SESSIONS CHROMATOGRAPHY

Date	Time	Location & Activities	
Oct.12 (Sun.)	8:00-24:00	Lobby, Central Garden Hotel	Registration
Oct.13 (Mon.)	a.m.	Grand Hall, Second floor, Central Garden Hotel Opening Speech: Benli HUANG BCEIA 2003 General Plenary Session Presiding: Peichang LU B1, E1, A 1 Alfredo Sanz-Medel F1, C1, G1	
	p.m.	Visiting Exhibition	
Oct.14 (Tue.)		Room203	Second Floor Corridor (Poster Session)
	a.m.	OPENING ADDRESS Presiding: Peichang LU, A. KETTRUP D97, D127, D103, D121 Presiding: Zhi-Jian YAO, J. PESEK D61, D145, D179	
	p.m.	Presiding: Guoquan LIU, Yoshinobu BABA D165, D143 Presiding: Guowang XU, Jun HAGINAKA D139, D147, D39, D153	
Oct.15 (Wed.)	a.m.	Presiding: Chao YAN, Jun NAGATA D63, D31, D141 Presiding: Hanfa ZOU, Joachim WEISS D29, D27, D41, D5	D1, D3, D7, D9, D13, D15, D17, D21, D23, D25, D33, D37, D43, D45, D49, D53, D57, D59, D65, D67, D69, D71, D73, D75, D79, D83, D87, D89, D91, D95, D99, D105, D107, D109, D111, D113, D117, D119, D129, D131, D137, D157, D159, D161, D163, D169, D171, D175, D177
	p.m.	Presiding: Xinmiao LIANG, Anatolii EVSTRAPOV D35, D149, D125, D135, D133	
Oct.16 (Thu.)		BCEIA 2003 Sightseeing in Beijing	

AGENDA OF SESSIONS MAGNETIC RESONANCE

Date	Time	Location & Activities	
Oct.12 (Sun.)	8:00-24:00	Lobby, Central Garden Hotel Registration	
Oct.13 (Mon.)	a.m.	Grand Hall, Second floor, Central Garden Hotel Opening Speech: Benli HUANG BCEIA 2003 General Plenary Session Presiding: Peichang LU B1, E1, A 1 Alfredo Sanz-Medel F1, C1, G1	
	p.m.	Visiting Exhibition	
Oct.14 (Tue.)		Room 206	Second Floor Corridor (Poster Session)
	a .m.	Presiding: Chaohui YE Steve C. F. AU-YEUNG Opening speech 8:35 E3 9:10 E5 9:45-10:00 Tea break E9, E25, E27, E29, E31	
	p.m.	Presiding: Yong LI Chien HO 1:30 E11 2:05 E13 2:40-3:00 Tea break E15, E 61, E 35, E 37, E 39	
Oct.15 (Wed.)	a .m.	Presiding: Fengkui PEI Zeev LUZ 8:30 E 17 9:05 E 19 9:40-10:00 Tea break E 21, E 23, E 41, E 43	
	p.m.		E33, E45, E47, E49, E51, E53, E55, E57, E59, E63, E65, E67, E69, E71, E73, E75, E77, E79, E81
Oct.16 (Thu.)		BCEIA 2003 Sightseeing in Beijing	

AGENDA OF SESSIONS ELECTROANALYTICAL CHEMISTRY

<table>
<tr><th>Date</th><th>Time</th><th colspan="2">Location & Activities</th></tr>
<tr><td>Oct.12
(Sun.)</td><td>8:00-
24:00</td><td colspan="2">Lobby, Central Garden Hotel Registration</td></tr>
<tr><td rowspan="2">Oct.13
(Mon.)</td><td>a.m.</td><td colspan="2">Grand Hall, Second floor, Central Garden Hotel
Opening Speech: Benli HUANG
BCEIA 2003 General Plenary Session
Presiding: Peichang LU B1, E1, A 1
Alfredo Sanz-Medel F1, C1, G1</td></tr>
<tr><td>p.m.</td><td colspan="2">Visiting Exhibition</td></tr>
<tr><td rowspan="3">Oct.14
(Tue.)</td><td rowspan="2">a.m.</td><td>Room 208</td><td>Second Floor Corridor
(Poster Session)</td></tr>
<tr><td>A speech: Erkang WANG
Presiding: R. GUILARD, S. KIHARA, K. ITAYA, H. GIRAULT, Ruqin YU and Shaojun DONG
F3, F5, F7, F9, F11, F13, F17, F19, F21, F23, F31, F33</td><td rowspan="2">F41, F43, F45, F47, F49, F51, F53, F55, F57, F73, F75, F77, F79, F81, F83, F85, F87, F89, F91, F93, F95, F97, F99, F101, F103, F105</td></tr>
<tr><td>p.m.</td><td>Presiding: C. AMATORE, M. FUJIHIRA, A. IVASKA, K. KALCHER, Zhongqun TIAN and Xiangqin LIN
F15, F35, F59, F61, F145, F65, F69, F71, F129, F135, F215</td></tr>
<tr><td rowspan="2">Oct.15
(Wed.)</td><td>a.m.</td><td>Presiding: T. KAKIUCH, K. TAKAMURA, S.COSNIER, F. W. SCHELLER, Xiurong YANG and Feimeng ZHOU
F127, F131, F133, F137, F147, 177, F179, F191, F183, F185, F187, 189,</td><td rowspan="2">F139, F141, F143, F149, F151, F153, F155, F157, F159, F161, F163, F165, F167, F169, F171, F173, F175, F193, F195, F197, F199, F201, F203, F205, F207, F209, F211, F213</td></tr>
<tr><td>p.m.</td><td>Presiding: O. NIWA, O. M. PETRUKHIN, G. BIDAN, T. TAKAMURA. M. WATANABE, Yuanhua SHAO and Jilie KONG
F25, F27, F29, F37, F39, F107, F109, F111, F115, F117, F119, F121, F123, F125</td></tr>
<tr><td colspan="2">Oct.16
(Thu.)</td><td colspan="2">BCEIA 2003 Sightseeing in Beijing</td></tr>
</table>

AGENDA OF SESSIONS LIFE SCIENCE

Date	Time	Location & Activities	
Oct.12 (Sun.)	8:00-24:00	Lobby, Central Garden Hotel	Registration
Oct.13 (Mon.)	a.m.	Grand Hall, Second floor, Central Garden Hotel Opening Speech: Benli HUANG BCEIA 2003 General Plenary Session Presiding: Peichang LU B1, E1, A 1 Alfredo Sanz-Medel F1, C1, G1	
	p.m.	Visiting Exhibition	
Oct.14 (Tue.)		Room 204	Second Floor Corridor (Poster Session)
	a.m.	A welcome address: Guofan JIN Presiding: Edward YEUNG & Liren MA Takehiko KITAMORI & Guoan LUO G3, G7, G63 G, G23, G55, G	
	p.m.	Presiding: Y. C. LING, H. T. TIEN & A. OTTOVA Yutian WU & Mengsu YANG G25, G39, G31, G61, G35 G67, G19, G45, G21, G11	
Oct.15 (Wed.)	a.m.	Presiding: Hanxi SHEN & Zhihong JIANG Kaisun BI & Hanwen SUN G37, G85, G75, G43, G27 G69, G79, G73, G71	10:30 – 12:00 POSTER SESSION Presiding: Qun FANG & Liushui YAN G13, G15, G41, G47, G49, G51, G53, G57, G77, G83
Oct.16 (Thu.)		BCEIA 2003 Sightseeing in Beijing	

AGENDA OF SESSIONS ENVIRONMENTAL ANALYSIS

<table>
<tr><th>Date</th><th>Time</th><th colspan="2">Location & Activities</th></tr>
<tr><td>Oct.12
(Sun.)</td><td>8:00-
24:00</td><td colspan="2">Lobby, Central Garden Hotel Registration</td></tr>
<tr><td rowspan="2">Oct.13
(Mon.)</td><td>a.m.</td><td colspan="2">Grand Hall, Second floor, Central Garden Hotel
Opening Speech: Benli HUANG
BCEIA 2003 General Plenary Session
Presiding: Peichang LU B1, E1, A 1
Alfredo Sanz-Medel F1, C1, G1</td></tr>
<tr><td>p.m.</td><td colspan="2">Visiting Exhibition</td></tr>
<tr><td rowspan="3">Oct.14
(Tue.)</td><td rowspan="2">a.m.</td><td>Room 201</td><td>Second Floor Corridor
(Poster Session)</td></tr>
<tr><td>Presiding:
Yury ZOLOTOV and Guibin JIANG,
Kazuichi HAYAKAWA and Shuping BI
H1, H5, H63, H103, H77, H35, H85, H105</td><td rowspan="2">H25, H29, H31, H41, H45, H49, H59, H67, H71, H81, H83, H89, H91, H95, H99, H101, H107</td></tr>
<tr><td>p.m.</td><td>Presiding:
Freddy ADAMS and Xiande Liu
Gillian M. GREENWAY and Jinmin LIN
H7, H11, H27, H39, H13, H37, H97, H65, H93</td></tr>
<tr><td rowspan="2">Oct.15
(Wed.)</td><td>a.m.</td><td>Presiding:
Antonius A. KETTRUP and Zijian WANG
Shoji MOTOMIZU and Zongwei CAI
H9, H113, H87, H33, H43, H57, H61, H51, H73, H109</td><td rowspan="2"></td></tr>
<tr><td>p.m.</td><td></td></tr>
<tr><td colspan="2">Oct.16
(Thu.)</td><td colspan="2">BCEIA 2003 Sightseeing in Beijing</td></tr>
</table>

SCHEDULE OF SESSIONS
ELECTRON MICROSCOPY

ORAL LECTURES

Welcome to Symposium on Advanced Microscopy in Materials Science Incorporated in BCEIA 2003

THE SYMPOSIUM

Under the Electron Microscopy Branch of BCEIA 2003, there is a Symposium entitled "*Advanced Microscopy in Materials Science*" sponsored by **Chinese Electron Microscopy Society** supported by **National Natural Science Foundation Committee of China, Shenyang National Laboratory for Materials Science and Institute of Metal Research (Chinese Academy of Sciences)**. The Symposium was originally initiated and called "**China-UK Joint Symposium on Advanced Microscopy in Materials Science**" by Prof. H. Q. Ye (IMR, CAS, China) and Prof David Cockayne (University of Oxford, UK). The Symposium is finally expanded to welcome the participation of all microscopists from other countries.

SCOPE

The symposium provides a forum to bring together researchers involved in development of microscopy including aberrattion-corrected TEM, Z-contrast imaging, EELS, QHREM, QCBED and 3D atom prove, and application of advanced microscopy to the materials sciences.

Advanced Microscopy

2003-10-14 a.m.（Tuesday）

Site: Room 202 second floor

Presiding: Hengqiang YE

8:00 **A107** Spatially resolved spectroscopy at very low energy losses
Archie HOWIE (Invited)

8:30 **A29** Imaging and Spectroscopy analysis of individual nanostructure
Jun YUAN (Invited), Yuekui SUN, Jun JIANG and Shangpeng GAO

9:00	**A3**	The characterisation of amorphous nanovolumes using RDF electron diffraction David COCKAYNE (Invited), Markus DOEBLINGER, Chris MARSH and Duc NGUYEN-MANH
9:30	**A89**	A global optimization algorithm in QCBED Jing ZHU (Invited), Aihua ZHANG and Fang FENG

10:00-10:15 Recess

Presiding: David COCKAYNE

10:15	**A9**	Electron energy loss spectroscopy of physical and biological nanostructured materials Rik BRYDSON (Invited), Andy BROWN, George LOVELY, Zabeada ASLAM, Clair CALVERT, Andrew SCOTT, Jon MEEGAN and Richard ANSELL
10:45	**A119**	Quantitative diffuse electron scattering used for determining elastic constants of crystals Renhui WANG (Invited), Jianhua YIN, Jianian GUI and Huamin ZOU
11:15	**A5**	The three dimensional atom probe: materials characterisation on the atomic scale George SMITH (Invited) and Alfred CEREZO
11:45	**A129**	EELS study on micromechanical properties of grain boundaries of steel Xiaozhong ZHANG, Lina ZHANG and Yue MA

Microscopy in Materials Science
2003-10-14 p.m. (Tuesday)
Site: Room 202 second floor
Presiding: George SMITH

1:30	**A17**	Structure and property modification of carbon based nanostructures Lian-Mao PENG (Invited), Renchao CHE, Qing CHEN and Xuelei LIANG
2:00	**A109**	Applications of ELNES to the nanoanalysis of particles and interfaces Alan J. CRAVEN (Invited)
2:30	**A15**	The determination of the polarity of ZnO film using electron holography Ze ZHANG(Invited), Yong WANG, Qingyu XU, Yanguo WANG, Xiaolong DU and Qikun XUE
3:00	**A7**	Z-contrast and EFTEM Tomography: 3-D analysis for Materials Sciences Paul MIDGLEY (Invited), Matthew WEYLAND

POSTER SESSION

2003-10-14 p.m. (Tuesday)
Time: 3:30 – 5:30
Site: Second floor corridor

A19 Structure determination of bimetallic AU/Cu nanoparticles
H.B. LIU, U. PAL, J.F. Sanchez Ramirez, A. MEDINA and J.A. ASCENCIO

A23 Strain relaxation in epitaxial self-assembled Ge(Si)/Si islands
J. ZOU, X.Z. LIAO and D.J.H. COCKAYNE

A35 Formation of Sm_2BaCuO_5 whisker in the growth of $SmBa_2Cu_3O_Z$ film by liquid phase epitaxy method
Xin ZHANG, Xiaojing WU, Xin YAO and Xiangfu ZONG

A37 Magnetic properties of Fe encapsulating carbon nanotubes
Jingyun WANG, Renchao CHE, Tongyun ZHAO and Lian-Mao PENG

A39 The oxygen near-edge structure as fingerprints of phase stabilization in zirconia
Jun JIANG, Huaqiang CAO and Jun YUAN

A41 W additive induced electronic structure changes in the TiAl-based alloy
Jun JIANG and Jun YUAN

A43 Electrochemical synthesis of Fe nanowire arrays via mesoporous silica SBA-16 film
Keying SHI, Qing CHEN and Lian-Mao PEN

A45 Refinement of X-ray powder diffraction data from nanocrystalline potassium hexatitanate
Peide HAN,Gaohui DU, Qing CHEN, Bingshe XU and Lian-Mao PENG

A47 Imaging helical $K_4NB_6O_{17}$ nanotubes
Gaohui DU, Qing CHEN and Lian-Mao PENG

A49 TEM study of iron encapsulated CN_X nanotubes
Renchao CHE, Qing CHEN, Jun SU and Lian-Mao PENG

A51 Synthesis and structure determination of $K_2Ti_6O_{13}$ nanowires
Ruihong WANG, Bolu WANG, Qing CHEN and Lian-Mao PENG

A53 Electron-beam induced growth of silver nanowires inside the electron microscope
Xiang DING, Qing CHEN, Chuanhong JIN, Jingyun WANG and Lian-Mao PENG

A55 Fabrication and electrical characteristics of carbon nanotube devices
Xuelei LIANG, Qing CHEN, Renchao CHE, Yang XIA, Zhonghua SUN and Lian-Mao PENG

A57 Controlling layer spacing of vanadium oxide nanotubes
Yuan YU, Gaiohui DU, Qing CHEN, Bingshe XU and Lian-Mao PENG

A61 Radiation-induced structural changes under Ar^+ letching of $NiAl_3$ compound
Rong WANG and Houwen CHEN

A63 The study of nanocrystalline materials by elecron micoscopy
Fan LI, Haibo HUANG, Yongsheng HUANG, Huating ZHAO and Bingyao WU

A65 Nanocrystallization in a bulk amorphous alloy after plastic deformation
Yufu DENG, Lianlong HE, Qingsheng ZHANG, Haifeng ZHANG and Hengqiang YE

A67 HRTEM observation of Yb doped bulk $La_{0.7}Sr_{0.3}MnO_3$
Benzhe SUN, Lianlong HE, Feng LUO and Chunhua YAN

A71 Orientation relationships between Ag embedded particles and Ni matrix
Jieli MENG and Manling SUI

A73 Microstructure of co-sputtered Cu-Ta thin films
Changqing HUANG and Manling SUI

A75 Microstruture degradation of 12%Cr steel after long term service at elevated temperature
Zhenguo YANG, Zhengfei HU and Liansheng WU

A77 Microstructure studies on epitaxial perovskite-based titanic oxide P-N junction
Ming ZHANG, Xiuliang MA, Doxing LI, Huibin LU, Fan CHEN and Guozhen YANG

A79 TEM observation in thin films of a new CMR manganite $La_{0.8}$ $Te_{0.2}$ MnO_3
Yinlian ZHU, Xiuliang MA and Douxing LI

A81 Study on the growth of nanocrystalline - Fe_2O_3 under shock wave
Yingchun YU, Jianjun LIU, Yongxi SHI and Hongliang HE

A83 In-situ tensility study on SBS micro-phase separation structure
Yongxi SHI, Quan ZHANG and Yingchun YU

A85 Interface microstructure of $TiC_{0.8}$/NiAl composite
Wenshen HUA, Xingfang WU, Dianhong SHEN, Hua LU and M. POLAK

A87 Microstructure and mechnical properties of electroformed nickel shaped charge liner and slug
Xiaoqing LI, Wenhuai TIAN, Ning'an XU, Sengchol KANG and Qi SUN

A95 High resolution electron microscopy study of titanium dioxide nanoballs composed by rutile needles
Guobin MA, Jianmin ZHU, Qi LI and Naiben MING

A99 Threading dislocations and stacking faults in epitaxial (Ba,Sr)TiO_3 thin film
Chaojing LU, L.A. BENDERSKY, K. CHANG and I. TAKEUCHI

A101 A supplement to the study on maximum entropy image deconvolution technique
Haibin WANG, Yumei WANG and Fanghua LI

A105 HREM study of Ni3(Ti,Mo) precipitates in 350 maraging steel
Chen ZHU, Xingfang WU and Chunxu WANG and Xueming LI

A115 Nanoscale chemical analysis of semiconductors by advanced transmission electron microscopy
A. G. CULLIS, D. J. NORRIS, M. HOPKINSON, T. WALTHER and T-S WANG

A123 α-factor revised formula with high valence oxide as element in quantitative analysis by electron probe
Wenqing HUANG, Qing YANG, Ying ZHANG, Wei ZHANG and Liqing CHEN

A125 A generalized derivation of MAEELS for the analysis of anisotropic systems
Yuekui SUN and Jun YUAN

A127 Core-hole effect in core level absorption spectra of layered material
Shangpeng GAO, Jing ZHU and Jun YUAN

A135 Pegasus and chi-scan, the right tool for accurate material characterization
Del REDFERN and Matt NOWELL

A139 The test for ability of six kinds of granites of Guangxi in micro-mechanics
Baodi WANG, Jingxian WEN and Jirong HUANG

A143 Real time imaging of membrane ultrastructures using tapping atomic force microscopy
Danying LIN, Wanyun MA, Dong HAN, Fulong LIAO, Xiufeng WANG and Zhigang OUYAN

A147 Transmission electron microscopy study of multi-layered CIGS based solar cell
Zaoli ZHANG, Thomas WAGNER and Dirk HERRMANN

Microscopy in Materials Science
2003-10-15 a.m. (Wednesday)
Site: Room 202 second floor
Presiding: Jing ZHU

8:00 **A91** Electron microscopy of localisation effects in quantum wells of InGaN in GaN
Colin HUMPHREYS(Invited), Tim SMEETON, Menno KAPPERS, Jonathan BARNARD, Darren GRAHAM, Soltani VALA, Philip DAWSON, Mike GODFREY and Ted THRUSH

8:30 **A121** Formation and evolution of nano-particles with heating treatment for MgB_2 materials
Xiao-Jing WU (Invited), Xin ZHANG, Yong FENG and Guo YAN

9:00 **A149** Integral atomic layer architectures and new structures of 1D crystals formed within single walled carbon nanotubes revealed by HRTEM
Jeremy SLOAN(Invited), Angus I. KIRKLAND, John HUTCHISON and Malcolm L. H. GREEN

9:30 **A31** Low dimensional light element nanomaterials synthesized by chemical vapor deposition
Yousong GU (Invited), Peijiang CAO, Xue HAN, Yanguo WANG and Hongjiun GAO

10:00-10:15 **Recess**

Presiding: C. J. HUMPHREYS

10:15 **A13** Defects, Luminescence and electric fields in GaN
David CHERNS(Invited)

10:45 **A131** Monte Carlo simulation of electron signals and image contrast SEM
Zejun DING (Invited) and Huiming LI

11:15 **A151** Secondary electron contrast from insulators in the low vacuum SEM
Brad Lamar THIEL (Invited) and M. TOTH

11:45 **A111** The super STEM: An aberration corrected analytical microscopy facility
R. BRYDSON, A. BLELOCH, L.M. BROWN, A. CRAVEN, P. GOODHEW and C. KIELY

Microscopy in Materials Science
2003-10-15 p.m. (Wednesday)
Site: Room 202 second floor
Presiding: Lian-Mao PENG

1:30 **A21** Nature of defects in ion-implanted GaN
J. ZOU, Y.G. WANG, S.O. KUCHEYEV, J.S. WILLIAMS, C. JAGADISH and G. Li

1:45 **A59** Microstructure and mechanical properties of electroformed nickel shaped liner and slug
Wenhuai TIAN, Xiaoqing LI, Ning'an XU, Shengzhe KANG and Qi SUN

2:00 **A137** New Technology of nano-scale observation and its application
Masahiro OHTA, Naoaki NIWA, Ryohei KOKAWA, Shintaro NISHIMURA and Yuki HASHI

2:15 **A27** Tensile strain effect study on $Pr_{0.5}Ca_{0.5}MnO_3/SrTiO_3$ film by electron energy loss spectrometry
Meng-Yue WU, Henny ZANDBERGEN, Zong-Quan YANG and Jan AARTS

2:30 **A33** The microstructures studies of CdSe hollow sphere prepared by sonochemical method
Jianmin ZHU, S-S HUANG, Guobin MA, J-J ZHU, X-H ZHU and S-H ZHOU

2:45 **A25** TEM microstructure study of $Fe_{0.82}Ni_{0.18}/V$ magnetic superlattice
J. LU, A.M. BLIXT, G. ANDERSSON and B. HJORVARSSON

3:00 **A103** Field-emission HRTEM study on the interface structure at atomic scale
Chunyan TANG and Fanghua LI

3:15-3:30 **Recess**

Presiding: J. ZOU

3:30 **A145** Transmission electron microscopy study of screw dislocation cores in $SrTiO_3$
Zaoli ZHANG, Wilfried SIGER, Wolfgang KURTZ and Manfred RUHLE

3:45 **A69** Microstructure investigations on WC-Co powder consolidated by electropulsing
Wei ZHANG, Manling SUI, Xiyong WU, Jingdong GUO and Douxing LI

4:00 **A 97** HRTEM analysis of fullerenes derived from coal
Xiaomin WANG, Xuguang LIU, Haixia ZHANG, Haiying WANG and Bingshe XU

4:15 **A133** The right tool for the right job
Del REDFERN and Alan SANDBORG

4:30 **A117** Quantitative EELS analysis of nanometer-thick amorphous layer at grain boundary
Hui GU (Invited)

SCHEDULE OF SESSIONS
MASS SPECTROMETRY

ORAL LECTURES

2003-10-14 a.m.（Tuesday）
Site: Room B205 second floor
Presiding: Dunyi LIU & R. Graham COOKS

8:00		Opening Speech Jinying LI
8:05	**B3**	Preparative mass spectrometry & the origin of homochirality R. Graham COOKS, Z. OUYANG, Z. TAKATS, S. NANITA, B. GOLOGAN, T.M. BLAKE and A.J. GUYMONB3
8:35	**B99**	High resolution inductively coupled plasma mass spectrometer (HR-ICP-MS): a powerful technique for ultra trace elemental and isotope ratio analyses Zhongxing CHEN
9:00	**B11**	MS/MSn performance using a multiple quadrupole two dimensional ion trap time of flight mass spectrometer Craig M. WHITEHOUSE, Sergey RAKOV, Illia TOMSKI and Dave WELKIE
9:25	**B73**	The combination principle of complex prescription of traditional Chinese medicine (TCM)：chemical evidence for the detoxification mechanism of highly toxic alkalolds Shuying LIU, Yong WANG, Zhiqiang LIU and Fengrui SONG
9:50-10:00		**Recess**

Presiding: Yongquan LU & Philip D.P.TAYLOR

10:00	**B59**	Cold-spray ionization mass spectrometry for characterization of biomolecules in solution Kentaro YAMAGUCHI, Shigeru SAKAMOTO
10:20	**B9**	The intermolecular interaction in solution observed by coldspray ionization mass spectrometry Zeper ABLIZ, Ruiping ZHANG, Kentaro YAMAGUCHI, Jiuming HE and Jiangong SHI
10:40	**B75**	Liquid chromatography - ion trap mass spectrometry in the identification of drug metabolites Dafang ZHONG, Xiaoyan CHEN
11:00	**B71**	Studies on peptides acetylation of stable□isotope labeling after 1-d page separation for quantitative proteomics Yanling YU, Jiefeng CUI, Xiaoyan WANG, Yinkun LIU and Pengyuan YANG

11:20 **B57** Simultaneous determination of adenosine and its cellular metabolites by using microbore HPLC-MS-MS
Zongwei CAI

11:40 **B111** Application of isotope dilution mass spectrometry in analysis of trace contaminants and residues in food samples
Wai mei Della SIN, Wai cheung CHUNG, Chuen shing MOK and Tai lun TING

2003-10-14 p.m.（Tuesday）
Site: Room B205 second floor
Presiding: Jinying LI & J. E. CANTLE

13:10 **B21** Development and practical applications of a low□cost automated imaging SIMS instrument
J.E. CANTLE, A.J. ECCLES and T.A. STEELE

13:35 **B129** Using inductively coupled plasma mass spectrometry as a detection technique for gas chromatography: meeting international standards for sulfur species in gasoline using GC-ICP-MS
Steven WILBUR, Christopher TYE and Dengyun CHEN

14:00 **B109** Reference measurements by multi-collector ICP-IDMS
J. VOGL, P. KLINGBEIL, W. PRITZKOW, G. RIEBE and G. WERMANN

14:25 **B25** High mass resolution assessment of the effectiveness of $^{40}Ar^{16}O$ interference removal from m/z ^{56}Fe at the $pg \cdot g^{-1}$ level using the hexapole collision cell on the isoprobe
Palacz ZENON

14:50 **B53** A new technology for metabolite identification:based on linear ion trap coupling with Fourier transform ion cyclotron resonance (FT-ICR) mass spectrometer
Billy WU, Andreas WIEGHAUS, Jens Griep□RAMING, Robert MALEK, Helmut MUNSTER and Lester TAYLOR

15:10 **B63** An integrated LC-MS platform for rapid and precise identification of proteins and their post-translational modifications using a linear ion trap coupled with a Fourier transform ion cyclotron resonance (FT-ICR) mass spectrometer
Shiaw-Lin WU, Andreas WIEGHAUS, Wolfgang Metelmann□STRUPAT, Helmut MUNSTER, Lester TAYLOR and David ARNOTT

15:30-15:40 **Recess**

Presiding: Shuying LIU & Craig M. WHITEHOUSE

15:40 **B37** Integrated profiling of pollutants in effluents from semiconductor manufacturing plants using mass spectrometers
Yong Chien LING

16:05 **B7** Mass spectrometry and theoretical calculations in chemical kinetics and mechanism studies
Fuxiang WU

16:30 **B15** Trace amount metal ion detection in parts□per□trillion level with corsairTM ESI TOF mass spectrometer
Shida SHEN, Craig M. WHITEHOUSE

16:55 **B27** Miniaturization of ion trap mass spectrometers
Zheng OUYANG, Leah S. RITER, Hao CHEN and R. Graham COOKS

2003-10-15 a.m. (Wednesday)
Site: Room 205 second floor
Presiding: Fuxiang WU & Zhongxing CHEN

8:00 **B65** Distribution pattern and enrichment of rare earth elements in different fern species and the host soil of Southeastern China
Ying LAI, Qiuquang WANG, Wenwu YAN, Zhenji LI and Benli HUANG

8:25 **B23** TG-DSC-MS studies on the preparation of BaFe12O19 nanoparticles by gel-combustion process
Changwei LU, Jianguo HUANG and Huimei YU

8:50 **B39** Evaluation of leaded petrol phase: out in China based on aerosol lead isotope abundance data
Xiande LIU, Wan WANG, Dongfa GUO and Liwei ZHAO

9:15 **B91** Preparation of high purity enriched cadmium isotopes for a new atomic weight and metrological applications using MC-ICP- MS
Samuel WUNDERLI, Giuseppino FORTUNATO, Jochen VOGL and Wolfgang PRITZKOW

9:40 **B95** High resolution techniques and measurements on MC - ICPMS
J.E. CANTEL

10:05-10:15 **Recess**

Presiding: Shida SHEN & Jianjun LI

10:15 **B141** Integration of microfabricated devices proteomics analysis
Jianjun LI, Liguo SONG, Tammy LeRICHE, Tammy Lynn TREMBLAY, Can WANG, D. Jed HARRISON and Pierre THIBAULT

10:40 **B61** Rapid mass measurement of intact proteins using ESI -TOF
Donghui YI, Jon D. WILLIAMS, Michael FLANAGAN, Linda L. LOPEZ and Christine A. MILLER

11: 05 **B79** Comparison of LC/MS and LC/MSn techniques in the identification of pesticides
Douglas JANSON

11:30 **B77** Applications of an ESI - TOF instrument for accurate mass determination in the drug discovery laboratory
Doug MCLNTYRE, Jon D. WILLIAMS, Luke A.D. MILLER and Linda L. LOPE

POSTER SESSION

2003-10-15 p.m.
Site: Second floor corridor
Presiding: Tao ZHOU & Hai LU

B19 The application of in□situ analysis technique: SHRIMP U Pb dating of Archaean zircon in Anshan Area, China
Biao SONG, Yusheng WAN and Dunyi LIU

B31 GF- TOF detection technique and its application for AMS measurements
Shan JIANG, Ming HE, Yongjing GUAN, Kejun DONG and Xiangdong RUAN

B33 Saccharide analysis of SI – WU - TANG by automated multiple development and off□line coupling thin layer chromatography electrospray ionization mass spectrometry techniques
Qiande LIANG, Weihua LI, Hongxia WANG and Shengqi WANG

B35 TG – DSC - MS characterization for the carbon nanotube/SiO2 composite prepared by sol - gel method
Huimei YU, Changwei LU and Jinwei NING

B41 Studies on the volatile components of Asarum Heteropoides Fr. Schmidt Var. Mandshuricum (Maxim.) Kitag. by GC/MS
Dongyan HOU, Huiqin WU, Ruihua HUI, Tiechun LI and Yongqiang ZHU

B43 Determination benzene and toluene of sea - bed sediments using GC/MS and its significance for oil/gas resource prediction in Bohai Sea, China
Haisheng LIU, Xingtao AI, Jiaming ZHANG, Wanyun MA and Dieyan CHEN

B45 Studies of certified reference materials for Li, Mg, K, Fe, Cu, Zn, Cd, Ce, Eu, Dy, et al. elements with higher metrology feature
Motian ZHAO, Jun WANG and Hai LU

B47 Study on the direct determination of neptunium and plutonium in environmental samples by ICP- MS
Yanqin JI, Jinying LI and Shanggeng LUO

B49 High precision 40Ar/39Ar dating of feathered dinosaurs fossil in Sihetun (Western Liaoning, NE China)
Yan ZHANG, Wen CHEN, Qiang JI and Xinyu LIU

B51 Determination of the chemical constituents of fennel oil by GC/MS
Chunling ZHANG, Xiaohua LV, Huiqiang YAO and Yun- ai LIU

B55 Image analysis of small molecules in rat tissues with matrix□assisted laser desorption/ionization mass spectrometry
Kwokei J. NG, Yunsheng HSIEH and Walter KORFRNACHE

B67 Research of new compound in mallotus apelta
Zhiqiang CHEN, Chuanhuan LUO, Junxing DONG and Yonggang KE

B69 Determination of composition in X capsule with GC/MS
Yanxia LIU, Chuanhuan LUO and Rongqing HUANG

B81 Determination of MAT in pork by GC/MS
Xiaodong LIANG, Chuanhuan LUO, Rongqing HUANG and Ning ZHANG

B83 SDS - PAGE combined with nanoLC - MS/MS to screen potential lung cancer biomarkers from serum□free conditioned medium
Lei LI, Ting XIAO, Wantao YING, Yangjun ZHANG, Jinglan WANG, Heyi YANG, Yun CAI, Yanning GAO, Shujun CHENG and Xiaohong QIAN

B85 Analysis of essential oil from amomum villosum lour by GC - MS
Huiqin WU, Xiaolan HUANG, Xiaoshan LIN and Fang HUANG

B89 On - line analysis of the anomeric isomers of morroniside by HPLC/ESI - TOF- MS
Cunyu YAN, Shanyi QIAO, Jianwei XIE and Yimin ZHAO

B97 Determination of ultra trace rare earth elements in human autopsy liver by ICP- MS
Husheng LIU, Yaqiong LIU, Li OUYANG, Naifen WANG and Hongda ZHU

B103 ICP - MS determination of ultra - trace elements in super - pure tellurium by $Fe(OH)_3$ coprecipitation preconcentration
Taicheng DUAN, Jianzhen KANG, Hangting CHEN and Xianjin ZENG

B105 Isotopic analysis by inductively coupled plasma mass spectrometry
Tao ZHOU, Jinying LI, Hai LU, Jun WANG and Motian ZHAO

B107 Determination of trace level thorium in uranium matrix with ICP - MS after pressurized column separation
Jijun YAO, Jinying LI

B113 Determination of plutonium with isotope dilution inductively coupled plasma mass spectrometry (ID - ICP - MS)
Jinying LI, Jijun YAO and Junjing LIU

B115 Abnormal isotopic composition of zinc in commodity
Motian ZHAO, Jun WANG, Hai LU and Qinglian ZHANG

B117 Mass spectrometry：U series ages of corals from the South China Sea
Zicheng PENG, Xiaozhong LUO, Jianfeng HE, Giujian LIU and Baofu NIE

B119 Development of isotope dilution mass spectrometry to CCQM - K13 international comparison-determination of trace amount Pb and Cd in sediment
Jun WANG, Motian ZHAO

B121 Separation and isotopic measurement of chlorine by thermal ionization mass spectrometry
Aide SUN, Yingkai XIAO, Qingzhong WANG, Chonggeng ZHANG, Haizhen WEI and Shizhen LI

B123 Determination of zinc in nonfat milk powder by isotopic dilution thermal ionization mass spectrometry after microwave digestion
Hai LU, Xiao ZHOU, Jun WANG, Motian ZHAO and Lijuan ZHANG

B125 The separation and measurement of isotopic composition of boron in evaporate halite by thermal ionization mass spectrometry
Shizhen LI, Yingkai XIAO, Kaiyuan CHENG, Aide SUN and Haizhen WEI

B127 Computer assisted expert evaluation of NIST/NIH/EPA mass spectral library
Anzor I. MIKAIA, Stephen E. STEIN, Vladimir G. ZAIKIN and Damo ZHU

B131 Comparison of two extraction methods for the organic compounds from Aucklandia Lappa Decne
Ruihua HUI, Dongyan HOU, Huiqin WU, Tiechun LI and Yongqiang ZHU

B133 Boron isotopic determination and geological implication of borosilicates from the Larsemann Hills, East Antarctica
Yanbin WANG, Yingkai XIAO, Liudong REN, Gang WANG, Yunhui WANG and Haizhen WEI

B135 Separation of REEs in uranium matrix using an improved column and determination by ICP - MS
Yongqing JIANG, Jinying LI and Dongfa GUO

B137 Determination of elemental sulfur in naphtha and gasoline by gas chromatography/mass spectrometry
Huiju ZHAO

B139 Multiple - stage tandem mass spectrometry for determination of linkage position and differentiating isomeric disaccharide and saponins
Fengrui SONG, Zhiqiang LIU, Shuying LIU and Biao YU

SCHEDULE OF SESSIONS SPECTROSCOPY

ORAL LECTURES

2003-10-14 a.m. (Tue.)
Site: Room 207 second floor
Presiding: Benli HUANG, G.M.Hieftje, Zheming NI

8:00	**C5**	New directions and capabilities in analytical spectrometry Gary M.HIEFTJE, Timothy L.DANIELSON, Andrew M.LEACH, Denise M.MCCLENATHAN, Radislav A.POTYRAILO, Steven J.RAY, Andrew W.SZUMLAS, Michael R.WEBB and William C.WETZEL
8:30	**C3**	Atomic-ionic fluorescence spectrometry ---------Searching for a niche Benli HUANG
9:00	**C7**	Miniaturization and integration of photometric and fluorimetric detectors in microfluidic-chip systems using liquid-core waveguides Zhaolun FANG, Qun FANG, Shili WANG and Wenbin DU
9:30	**C11**	In situ trapping of metal hydride in a graphite furnace for atomic absorption spectrometry Zheming NI
10:00-10:20		**Recess**
10:20	**C9**	Quantitative elemental speciation: challenges and strategies based on multi-labelled multi-speciesisotope dilution ICP-MS Alfredo SANZ-MEDEL, Pablo RODRIGUE-GONZALEZ, Jorge RUIZ ENCINAR, and J.Ignacio GARCIA ALONSO
10:50	**C23**	Features and applications of a modern ICP-OES with CCD technology Alfred GOLLOCH, Myint Myint SEIN and Dirk ARDELT
	C25	Spark emission spectrometry-- A review of the last 25 years Alfred GOLLOCH, Myint Myint SEIN, Heinz-Gerd JOOSTEN, and Dirk SIEGMUND
11:30	**C19**	Trends in photon solid-state detectors for atomic spectrometry Jean-Michel MERMET C

2003-10-14 p.m. (Tue.)
Site: Room 207 second floor
Presiding: Zhaolun FANG, Alfredo Sanz-Medel, Zhanxia ZHANG

1:30 Les Ebdon

2:00 C15 Application of wavelet transform to signal processing in ICP-OES
Xiaoguo MA and Zhanxia ZHANG

2:30 C21 Short-wave NIR spectrometry based on transmitance measurement and its application to grain quality inspection
Qinhan JIN

3:00 C63 The differences of malignant and normal stomach tissues revealed by FTIR ATR spectroscopy
Limin YANG, Qingbo LI, Xiaofeng LING, Zhi XU, Jiansheng WANG, Jingshen SHI and Jinguang WU

3:30-3:50 **Recess**

Presiding: Shuying LIU & Kentaro YAMAGUCHI

3:50 C29 Comparative study of excitation mechanisms in argon radio-frequency inductively coupled plasma, nitrogen high-power microwave induced plasma and argon or nitrogen glow discharge plasmas
Kazuaki WAGATSUMA, Yuetsu DANZAKI and Taketoshi NAKAHARA

4:10 C103 Quantitative analysis of nanoparticle on Si wafers using X-ray fluorescence Spectrometer
K. Taniguchi, S. Maeo, T. Kurosawa, K. Aikoh and I. Hourai

4:30 C105 Continuum source AAS with flame atomization: Latest new from an old technique
Helmut BECKER ROSS, Stefan FLOREK, Uwe HEITMANN, Mao D.HUANG, Michael OKRUSS and Werner SCHRADER

4:50 C17 Speciation of metallothioneins in rabbit liver by capillary electrophoresis interfaced to inductively coupled Plasma atomic emission spectrometry
Biyang DENG, Weiming MO and Chujie ZENG

17:10 C35 Determination of metal pollutants in industrial wastewater by high power microwave induced air plasma atomic Emission spectrometry
Zhanen ZHANG and Kazuaki WAGATSUMA

2003-10-15 a.m. (Wed.)
Site: Romm 207 second floor
Presiding: Qinhan JIN, Alfred GOLLOCH, Jinguang WU

8:00 **C41** Development of a miniature simultaneous MPT spectrometry
Yanfu HUAN, Guodong FENG, Shuhua WANG, Xinghua WANG, Yanbo CAO, Qinhan JIN and Hongmei YU

8:20 **C43** Ion atomic fluorescence spectrometry
Xiandeng HOU, Zaide ZHOU, Hong LUO and Gang LI

8:40 **C53** Study on the interaction between erythrosine B and bovine serum albumin by fluorimetry
Yuxia WEI, Junfen LI, Chuan DONG and Shaomin SHUANG

9:00 **C55** Preconcentration and determination of palladium(II) by an organic solvent-soluble membrane filtration-graphite Furnace atomic absorption spectrometry
Runjuan HE, Chunyan QIAN, Hong QIANG and Ruohua ZHU

FT-IR, RAMAN SPECTROSCOPY

9:20 **C67** Directly using silver and gold particulate aggregates as surface-enhanced Raman scattering substrates
Jiawen HU, Jianzhou ZHENG, Yuxiong JIANG, Zhongqun TIAN and Shigang SUN

9:40-10:00 **Recess**

10:00 **C69** Experimental and theoretical investigation on surface enhanced Raman scattering of pyridine at noble and transition metals
Yuxiong JIANG, Deyin WU, Jiawen HU and Zhongqun TIAN

10:20 **C71** The development of an on-line NIR analyzer and its applications in catalytic reforming process
Hongfu YUAN, Xiaoli CHU, Yanbin WANG, Yurui YANG and Wanzhen LU

10:40 **C73** Application of imaging with a Near-infrared microscope
Seiji TAKEUCHI, Sachio MURAKAMI and Yuan Yuan SONG

11:00 **C75** Classification of official rhubarb samples based on NIR spectroscopy using neural networks
Yanfeng TANG, Zhuoyong ZHANG and Guoqiang FAN

11:20 **C79** A Raman study of the organic molecular crystal benzalazine at high pressure
Zhongping WANG, Yongfei ZHAO, Xudong TANG, Tengyun CHEN, Zejun DING and Qirong PU

2003-10-15 p.m. (wed.)
Site: Room 207 second floor
Presiding: Wanyun MA, Mao HUANG

1:30 **C81** High-speed appraise leather product by fourier transform infrared attenuated total reflection spectroscopy
Lin XU and Naiyan WANG

1:50 **C91** Spectroscopic studies on the different chemical composition between the shell and core of radix notoginseng
Saijun LI, Hongbo TIAN, Yizhuang XU and Jinguang WU

LASER MEASUREMENT, FLUORESCENCE SPECTROSCOPY

2:10 **C95** Single molecule fluorescence imaging with ICCD camera and its application in life science
Wanyun MA

2:30 **C99** The study on multi-photon excited fluorescence in capillary electrophoresis
Yunxu SUN and Wanyun MA

2:50 **C101** Aluminum-manganese cooperative effect on the melanin formation from dopa oxidation
Junwei DI and Shuping BI

POSTER SESSION

2003-10-14
Second floor corridor

C33 Study on a new fluorescence probe of Ca2+ and its application in bioscience
Hongtao YAN and Xiaoling ZHANG

C37 GFAAS determination of copper and its speciation in sediment cores from daya bay
Dehai MU, Yonghong SHU, Shiping YAN and Jiagai ZHENG

C39 Labeling biomolecules with water-soluble semiconductor nanocrystals via electrostatic interaction
Zhangbi LIN, Xingguang SU, Hao ZHANG, Shuxun CUI, Qidan CHEN, Bai YANG and Qinhan JIN

C45 Smoothing technique of signal in spectroscopy
Ying WANG and Jinyuan MO

C47 Determination of thirteen elements in tobacco by flame atomic absorption spectrometry
Xiaomei LIN, Zhonggiao YANG and Zigang XU

C49 Determination of trace amount of Arsenic, silver, tin, antimony and bismuth in lead metal by ICP-MS
Xianjin FENG

C51 Determination of As, Sb, B i and Sn in lead metal by HG-AFS
Xianjin FENG

C57 Study of copper enrichment by inclusion absorbing resin with β-cyclodextrin cross-linking polymer
Lidi GAO,Yingjie LI and Fuquan ZHAO

C59 Antimony and bismuth determination in a new copper alloy by graphite furnace atomic absorption spectrometry
Jianhua LIU, Mei YU and Songmei LI

C61 Analysis and formation mechanism of metal impurities in hydrazines propellant
Ye CAO, Jixin CONG and Xiuli BI

C77 The characterization of monomers for ACR resin by PYGC/FTIR
Xu SU

C83 Effects of divalent metal ions with bile salts on phosphatidylcholine unilamellar vesicles
Kebing YU, Zhanlan YANG, Roger D.SOLOWAY, Li ZHANG, Huhe CHEN, Fan WANG, Shifu WENG and Jinguang WU

C85 FT-IR study on the interaction between biomolecule and fluorescent stain reagent
Yulan SU, Jun YANG, Yizhuang XU, Shifu WENG and Jinguang WU

C87 Effect of trivalent metal ions on EYPC multilamellar vesicles in presence of bile salts
Huhe CHEN, Zhanlan YANG, Li ZHANG, Kebing YU, Fan WANG, Shifu WENG and Jinguang WU

C89 Inflence of H + on aggregation of sodium deoxycholate in aqueous solution
Li ZHANG, Zhanlan YANG, Huhe CHEN, Ying SUN, Fan WANG, Shifu WENG and Jinguang WU

C93 Prediction of distillation ranges and octane number of reformed gasoline by wavelet –ANN-NIR spectra
Xiaotong ZHANG, Xiuhong MENG, Xingming LI, Zhaolin SUN and Menglong LI

C97 Single molecule detection of evanascent wave excitation
Yunxu SUN and Wanyun MA

SCHEDULE OF SESSIONS
CHROMATOGRAPHY

ORAL LECTURES

2003-10-14 a.m. (Tuesday)
Site: Room 203 second floor
Presiding: Peichang LU, A. KETTRUP

8:00 Opening Address
Peichang LU

8:05 Guest Address
N. TANAKA

8:15 **D97** Advances an applications of LC/MS and CE/MS on aerosol and pesticide analysis
Antonius A. KETTRUP

8:45 **D127** Advance of chromatography
Yukui ZHANG

9:15 **D103** Simple, Comprehensive Two-Dimensional Reversed-Phase HPLC Using Monolithic Silica Columns.
Nobuo TANAKA, Hiroshi KIMURA, Ken HOSOYA, Tohru IKEGAMI, Norio ISHIZUKa, Hiroyoshi MINAKUCHI, Kazuki NAKANISHI, Yukihiro SHINTANI, Masahiro FURUNO, Karin CABRERA

9:45 **D121** The application and use of peptide nucleic acid
Liren MA

10:15-10:30 Recess

Presiding: Zhi-Jian YAO, J. PESEK

10:30 **D61** Capillary and planar electrophoretic approaches to proteomic analysis in one and two dimensions
Joseph J. PESEK, Maria T. MATYSKA, G. Brent DAWSON, John WIKTOROWICZ, M.T.W. HEARN and R.I. BOYSEN

11:00 **D145** Liquid chromatography in proteomics researches
Zhi-Jian YAO

11:30 **D179** Characterisation of volatile chemical materials by using comprehensive two-dimensional gas chromatography
Philip MARRIOTT, Michael DUNN, Robert SHELLIE

2003-10-14 p.m. (Wednesday)
Site: Room 203 second floor
Presiding: Guoquan LIU, Yoshinobu BABA

1:30 Nano-biodevice of Ultrafast Separation of DNA and Protein
Yoshinobu BABA

2:00 **D165** Molecularly imprinted polymer (MIP) beads with uniform size used for the separation of sulfamethazine
Zhiyong CHEN, Rui ZHAO, Dihua SHANGGUAN and Guoquan LIU

2:30 **D143** HPLC separation of some enantiomers on a chiral staionary phase based on macrocyclic antibiotics
Jozef LEHOTAY, Tatiana ROJKOVIČOVÁ, Jana ĎUNGELOVÁ, Jozef ČIŽMÁRIK and Daniel W.ARMSTRONG

3:00-3:15 **Recess**

Presiding: Guowang XU, Jun HAGINAKA

3:15 **D139** Enantioseparation based on chicken $_1$-acid glycoprotein: protein sequence study and chiral recognition mechanism
Jun HAGINAKA, Hisami MATSUNAGA and Yutaka SADAKANE

3:45 **D147** Diagnosis of the presence and severity of diseases using HPLC-based metabonomics
Guowang XU, Jun YANG, Yufang ZHENG, Hongwei KONG, Tao PANG, Chenfei MA, Shen LV and Qing YANG

4:15 **D39** High-throughput HPLC--smaller and faster
Ronald E. MAJORS

4:45 **D153** Analysis of endogenous neurotoxins in Parkinsonian brains
Yulin DENG, Jianhua ZHANG, Ali RAJPU, Alex RAJPU and Oleh HOMYKIEWICZ

2003-10-15 a.m. (Wednesday)
Site: Room 203 second floor
Presiding: Chao YAN, Jun NAGATA

8:00 **D63** Advances in pressurized capillary electrochromatography: theory, instrumentation, column and applications
Chao YAN, Junjiao YANG, Chuanyi YAO, Yukui ZHANG, Kai ZHANG and Ruyu GAO

8:25 **D31** Determination of iminoctadine acetate with post-column fluorometric detection in high performance liquid chromatography
Jun NAGATA, Yuki HASHI, Masatoshi TAKAHASHI, Takeshi GOTO, Hirohisa MIKAMI, Lu DONG and Liyue QI

8:50 **D141** Refoldin of reduced lysozyme using weak cation exchange chromatography
Yan WANG，Min LI，Bolin GONG, Xindu GENG

9:15 Protemics and capillary column HPLE/CEC/MS: new advances for cell protein identification and quantification
Frank YANG

9:40-10:00 Recess

Presiding: Hanfa ZOU, Joachim WEISS

10:00 **D29** Strategy for analysis and screening of bioactive components in traditional chinese medicines (TCMs)
Hanfa ZOU, Liang KONG, Xiqin MAO, Xin LI and Hailin WANG

10:25 **D27** Advanced ionchromatography technology for reagent free operation
Joachim WEISS

10:50 **D41** Chiral separation of tamsulosin hydrochloride enantiomers by HPLC using cellulose TRIS-DMPC stationary phase
Gengliang YANG, Zhefeng ZHANG, Guijian LIANG, Haiyan LIU and Yi CHEN

11:15 **D5** Trace-level calibration of gas chromatograph systems by real-time dynamic dilution
Bruce QUIMBY, Roger FIROR and Douglas JANSON

11:40 Gas chromatography technical in clean gasoline application
ChuanHong TU

2003-10-15 p.m. (Wednesday)
Site: Room 203 second floor
Presiding: Xinmiao LIANG, Anatolii EVSTRAPOV

13:30 **D35** High performance liquid chromatographic determination of copper ion using on-column derivatization w1th n- (dithiocarboxy) sarcosine
Lu DONG, Jun NAGATA, Keiko YAMABE, Atsushi IEUJI, Makoto OGAITO, Hirohisa MIKAMI, Yuki HASHI and Liyue QI

13:55 **D149** Advances in chromatographic methodology for the analysis of unkown complex samples
Xinmiao LIANG, Xingya XUE, Longxing WANG, Qing XU, Qing ZHANG and Jiping CHEN

14:20 **D125** Applicatlon of digital signal processing algorithms to DNA analysis on a microfluidic chip
Anatolii EVSTRAPOV, Anton BULIANITSA, Galina RUDNITSKAYA, Boris BELENKII, Tatyana SALNIKOVA and Vladimir KUROCHKIN

14:45 **D135** Solid-phase microextraction of phenol compounds using novel fiber coated with β-cyclodextrin bonded silica stationary phase
Gongke LI, Yuling HU and Yuexing ZHENG

15:10 **D133** A simple fluorescence detection system using light-emitting-diode and optical fibre for microchip capillary electrophoresis
Haifang LI and Jin-Ming LIN

POSTER SESSION

2003-10-15 p.m. (Tuesday)
15:35-17:30
Site: Second floor corridor

D1 Contribution of chemometrics to up to date challenges in analytical separation sciences
J. KRUPCíK, P. MáJEK and D.W. ARMSTRONG

D3 The determination of volatile compounds in traditional chinese medicine of dendrobium moniliforme by GC and GC/MS
Weimin MO, Zaifa PAN, Zuguang LI and Wei SUN

D7 The application of the modified BP artificial neural Networks in PREDICTING chromatographic retention indices
Xingming LI, Xiaotong ZHANG, Dan LIU and Zhaolin SUN

D9 Application of a homemade coating for HS-SPME in the determination of organochlorine pesticides
Chunzhou DONG, Zhaorui ZENG and Huaifang FANG

D13 GC/MS/MS analytical method of polycyclic aromatic hydrocarbons (PAHs) in inhalational particulates
Zhengping WANG, Yantao SONG, Houjun WANG and Hongyu ZHANG

D15 Determination of amines in water by solid phase microextraction-gas chromatography
Yantao SONG, Zhengping WANG and Lin WANG

D17 Studies on the terpinenes constituents of Celastrus Articulatus Thunb.
Dongyan HOU, Mei YANG, Ruihua HUI, Tiechun LI and Hua GUO

D21 Analysis of the essential oils of the needles, twigs and cones of Pinus Tabulaeformis Carr.grown in China
Ruihua HUI, Dongyan HOU, Tiechun LI, Mei YANG and Hua GUO

D23 Study on the change of volatile components during making steaming green tea by gas chromatography/mass spectrometry
Jing ZHAO, Jianyue FENG and ZenghuiZHAO

D25 Determination of CO_2 and CH_4 of sediment of sea-bed in the Bohai Sea, China
Jiamin ZHANG, Xingtao AI, Haisheng LIU, Wanyun MA and Dieyan CHEN

D33 Quantitative structure-retention relationship of 36 kinds of chitin formation inhibitors on octadecene-polystyrene encapsulated zirconia stationary phase in reversed-phase high-performance liquid chromatography
Yan XIA, Yunfeng GUO, Hui WANG, Qian WANG and Yumin ZUO

D37 Preparation, characterization and application of chelate cation-exchanger
Ron LI and Guolian CHEN

D43 Simultaneous determination of four water-soluble vitamins by ion-pair reversed-phase HPLC
Ke LI

D45 Enantioseparation of acidic chiral compounds on cellulose tris (3,5-dimethylphenylcarbamate) chiral stationary phase by HPLC
Xiaojun CAI, Li ZOU, Chunxiu PAN and Xiuzhu XU

D49 Preparation of a annular monolith for chromatography
Changlong YANG, Juanjuan ZHOU, Qinghe ZHANG, Weibing ZHANG, Tong LI and Haoquan HU

D53 Studies on relationship between peak capacity and column length for the separation of peptide mixture with RPLC
Yangjun ZHANG, Jinglan WANG, Lei LI, Wantao YING, Yun CAI and Xiaohong QIAN

D57 A new technology for preparation of monolithic silica column
Wenhui GAO, Gengliang YANG, Jing YANG and Haiyan LIU

D59 Detection of glucose using enzyme－ion chromatography
Rongzong HU, Limin LAI and Yuhua WENG

D65 Chelating concentratin of metal cation in capillary zone eletrophoresis
Lingyi ZHANG, Weibing ZHANG and Yukui ZHANG

D67 Separation and determination of glycyrrhizic acid in licorice by high performance capillary electrophoresis
Yang SHEN, Zhixia ZHUANG and Xiaoru WANG

D69 Resonant rayleigh light scattering detection of capillary electrophoretic bands
Li QI, Zhiqiang HAN, Xiao YU and Yi CHEN

D71 Preparation and evaluation of non-bonded hyperbranched polymer-coated columns for capillary electrophoresis
Chongqi SHOU, Changli ZHOU, Chuannan LUO, Chunbin ZHAO, Zhiliang ZHANG, Haibo JIA, Guanbin LI and Liren CHEN

D73 Analysis of trace amino acid neurotransmitters in hippocampus of rats after giving the no.5 dose using microdialysis
Hongmei DANG, Xingtao AI, Min FU and Wanyun MA

D75 Continuous determination of individual cells surface antigen with capillary electrophoretic enzyme immunoassay
Zhihui HE and Wenrui JIN

D79 Investigation of neutral solutes separated in saltless system of capillary electrochromatography
Weibing ZHANG, Huiyan YOU and Yukui ZHANG

D83 Characteristics of electroosmotic flow measuring by two methods in capillary electrochromatography
Huiyan YOU, Weibing ZHANG and Yukui ZHANG

D87 On-line concentration of neutral and charged species in capillary electrochromatography with methacrylate-based monolithic stationary phases
Guichen PING, Weibing ZHANG, Lihua ZHANG, Lin ZHANG and Yukui ZHANG

D89 Preparation and characterization of organically modified silica monolithic weak anion-exchange column for CEC
Qinghe ZHANG, Lijuan YAN, Lingyi ZHANG, Tong LI, Yuqi FENG, Weibing ZHANG and Yukui ZHANG

D91 Preparation of monolithic column and its application in pCEC
Junjiao YANG, Xiuli WANG, Ping FANG, Yukui ZHANG and Chao YAN

D95 Separation of green tea extract by pressurized capillary electrochromatography (pCEC)
Xiuli WANG, Junjiao YANG, 2, Ping FANG, Xuehua JIANG, Yukui ZHANG and Chao YAN

D99 Fast multicomponent trace analysis of polar pesticides in water by means of on-line coupling SPE-HPLC-MS/MS
Werner ENGEWALD, Therese KOAL, Jürgen EFER and Arndt ASPERGER

D105 A novel interface for the hyphenation of capillary electrophoresis and electrospray ionization mass spectrometry
Zhen LIANG, Jicheng DUAN, Lihua ZHANG, Weibing ZHANG, Yukui ZHANG

D107 Improving LC-MS analysis of biofluids by adequate sample clean-up
Karl-Siegfried BOOS and Katrin GEORGI

D109 Two-dimensional capillary electrophoresis for the separation of proteins carried out by microdialysis interface
Chun YANG, Lingyi ZHANG, Hechun LIU, Weibing ZHANG, Yukui ZHANG

D111 2-Dimensional gas chromatography, a new approach to solving complex separations
Bruce QUIMBY and Douglas JANSON

D113 Characterization of phenols in mainstream cigarette smoke condensate by using comprehensive two-dimensional gas chromatography/time of flight mass spectrometry
Xin LU, Junlan CAI, Jianfang WU, Hongwei KONG, Mingyue ZHAO, Ruixiang HUA and Guowang XU

D117 High resolution and fast LC and LC/MS of proteins and peptides with poroshell columns
Ronald E. MAJORS

D119 A new CO_2 jet modulator for comprehensive two-dimensional gas chromatography
Hongwei KONG, Feng YE, Xin LU, Mingquan DONG, Lei GUO and Guowang XU

D129 Preparation and applications of poly (ni-protoporphyrin IX) films in solid phase microextraction
Alfredo Lo BALBO, Miguel VAGO, Viviana Campo Dall ORTO, Mariano GOTELLI and Irene REZZAN

D131 Microscale haplotyping of human Y chromosome
Lihua ZHANG, Ruihuan ZHAO, Yoshinobu BABA and Yukui ZHANG

D137 Study on the behavior of gold adsorption by big-aperture weak alkaline tertiary-amine resin
Huachang LI, Bin FU, Chunshan ZHOU and Shufang TANG

D157 Pigment analysis of several marine phytoplankton by HPLC
Peng YAO, Zhigang YU, Chunmei DENG, Xiuqin LI and Zengyuan NIU

D159 Enantioseparation of ketoprofen esters on cellulose tribenzoate chiral stationary phase and probing chiral recognition mechanism
Xiuzhu XU, Datong ZHANG and Hongmei HE

D161 Extraction and determination of group a soybean saponins
Jing TIAN, Longquan XU, Bin ZHAI and Guowang XU

D163 Enhanced acetylcholine release in the hippocampus during the footshcok stimulus and the operant conditioned reflex BY Micro-HPLC/ECD
Yu DONG, Jianjun MAO, Dihua SHANGGUAN, Rui ZHAO and Guoquan LIU

D169 Determination of scutellarin by liquid chromatography-electrochemical detection
Wenzhu ZHANG, Xia LIU, Bo WEN and Shengxiang JIANG

D171 A new technique of preparation of inorganic supports for HPLC
Huijuan DUN, Xia WANG, Chunhui LIU, Yongmin LI and Liren CHEN

D175 PA pre-column derivatisation and RP-HPLC analysis of free amino acids in sediment cores from Daya Bay, the south China sea
Dehai MU, Shiping YAN, Jiagai ZHENG and Yonghong SHU

D177 The determination of carbamate pesticides in water by solid-phase microextraction coupled with high-performance liquid chromatography
Yuling HU, Weijian ZHONG and Gongke LI

SCHEDULE OF SESSIONS
MAGNETIC RESONANCE

ORAL LECTURES

2003-10-14 a.m. (Tuesday)
Site: Room 206 second floor
Presiding: Chaohui YE, Steve C.F. AU-YEUNG

8:30		Opening speech
8:35	**E3**	Nuclear magnetic resonance -a powerful tool for life science Chaohui YE
9:10	**E5**	Structure, dynamics, ordering and alignment of some nonconventional discotic mesophases as studied by solid-state NMR techniques Zeev LUZ
9:45-10:00		**Recess**
10:00	**E9**	Measurement of dipolar cross correlation in methylene groups in uniformly ^{13}C-, ^{15}N-labeled proteins Daiwen YANG ,Yu ZHENG
10:35	**E25**	Magnetic resonance imaging with nanoscale resolution Shangwu DING, Lian-Pin HWANG , Kai-Chao YU, Wen-Yan LIANG, Zhen WU, Yan-Chi CHEN, Li-Chiang CHEN and Guoping WANG
10:55	**E27**	Magnetic resonance of model biomembranes Cheol Eui LEE
11:15	**E29**	AB initio powder structure -a 3D reconstruction from NMR shielding tensor quantity Hong Bing HU, Steve C.F. AU-YEUNG
11:35	**E31**	NMR study of the structure and dynamics of the thrombin binding DNA in the presence of Sr^{2+} Xi- an MAO, Williams H. GMEINER

2003-10-14 p.m. (Tuesday)
Site: Room 206 second floor
Presiding: Yong LI Chien HO

1:30 **E11** PDZ domain mediated synaptic signal transduction complex organization
Mingjie ZHANG, Wei FENG, Yawei SHI and Jia- Fu LONG

2:05 **E13** NMR assignment of a topoisomerase 1：recognition site using relaxation-editied NOESY
Williams H. GMEINER，Xi-an MAO

2:40-3:00 Recess

3:00 **E15** Nuclear magnetic resonance approach to search a target molecule for new antibiotics, by the analysis of structure activity relationships of antimicrobial peptides
Hyung-Sik WON, Hyung-Eun KIM, Seo-Jeong JUNG
and Bong-Jin LEE

3:35 **E61** Changes in cerebral macromolecular metabolites in rat after experimental stroke observed by in vivo 1H magnetic resonance spectroscopy
Li WEI，Weijing LIAO，Hua LIU，Maili LIU and Hao LEI

3:55 **E35** Characterization of a novel titanolicate with MWW topology by solid state MAS NMR method
Jianqin ZHUANG , Zhimin YAN, Xiumei LIU, Xianchun LIU,
Xiuwen HAN and Xinhe BAO

4:15 **E37** Acid sites on BF_3/Al_2O_3 catalyst as studied by multipleresonance and MQ MAS NMR spectroscopy
Jun YANG , Feng DENG, Mingjin ZHANG, Yong YUE
and Chaohui YE

4:35 **E39** Sandwiched gadolinium(□) complexes with tungstosilicate as contract agent for magnetic resonance imaging
Guoying SUN，Jianghua FENG，Huifeng WU，Fengkui PEI, Ke FANG and Hao LEI

2003-10-15 a.m. (Wednesday)

Site: Room 206 second floor
Presiding: Fengkui PEI Zeev LUZ

8:30 **E17** Spin relaxation and molecular motions in the polycrystalline α-L- fucopyranose and methyl α-L-fucopyranoside
H.R. TANG, Y.L. WANG and P.S. BELTON

9:05 **E19** Three DNA-antitumor agent complexes originated from the enediyne neocarzinostatin chromophore reveal distinct modes of action on DNA
Xiaolian GAO

9:40-10:00 **Recess**

10:00 **E21** Solid-state NMR studies of ordered mesoporous materials
Feng DENG ,Qing LUO, Fang CHEN, Mingjin ZHANG and Chaohui YE

10:35 **E23** Solution structure of DNA-binding domain of SWI1 protein
Xiaoming TU, Jihui WU, Yinqi XU and Yunyu SHI

10:55 **E41** Two dimensional electron spin resonance spectroscopy
Yong LI, Meng SHAO, Qi WANG and Bihui HOU

11:15 **E43** ESR study on novel solvent recoverable polymer material
Wenqin WANG , Li WANG and Jianjun WANG

POSTER SESSION

2003-10-15 p.m. 1:30 (Wednesday)
Site: Second floor corridor
Nuclear Magnetic Resonance Spectroscopy and Imaging

E33 Structural characterization of the amino-ethylpropyl PNA and its binding with DNA by NMR spectroscopy
Xianzhong YAN, Yuanjun LIANG, Jie WU, Xiaoyu XU and Keliang LIU

E45 Nuclear magnetic resonance study of velocity imaging and velocity distribution of flow in model packed beds
Xiaohong REN, Siegfried STAPF and Bernhard BLÜMICH

E47 Effects of templates on properties of SAPO-34 molecular sieve
Yiqing YANG，Hongxin LIU，Jian WANG and Zaiku XIE

E49 Structure characterization of boron-containing mordenite zeolite by NMR
Mingjin ZHANG , Lei CHEN，Delian YI，Anmin ZHENG，Feng DENG，Yong YUE and Chaohui YE

E51 A multinuclear solid state NMR study on rhodium loaded zeolite Y
Zhimin YAN, Jianqin ZHUANG, Xianchun LIU, Xiumei LIU, Xiuwen HAN and Xinhe BAO

E53 Synthesis and solid state NMR characterization of small-sized SAPO-34 molecular sieve
Zhimin YAN, Jianqin ZHUANG, Lei XU, Xianchun LIU, Xiumei LIU, Zhongmin LIU, Xiuwen HAN and Xinhe BAO

E55 ^{31}P MAS NMR investigation of reaction controlled phase transfer catalyst- $[\pi\text{-}C_5H_5NC_{16}H_{33}]_3[PW_4O_{16}]$
Yangying CHEN, Jianqin ZHUANG, Xiumei LIU, Xiuwen HAN, Xinhe BAO, Ning ZHOU, Shuan GAO and Zuwei XI

E57 MRI myocardial perfusion quantitative analysis
Zhun LI, Anpei YE

E59 A novel registration for myocardial perfusion MR image based on motion detection
Jinqiang HE, Anpei YE

E63 NMR study of solid state ion-exchanged CuZSM-5 zeolites
Anmin ZHENG , Feng DENG , Lei CHEN, Mingjin ZHANG and Chaohui YE

E65 The structure and properties of molybdenum and tungsten complex studied by solid state NMR
Guangjin HOU，Liying WANG，Feng DENG and Chaohui YE

E67 Hydrogen bonding in nylon 6 solution studied by nuclear magnetic resonance
Hongchang GAO, Shizhen MAO, Hanzhen YUAN and Youru DU

E69 Measuring heteronuclear distances with high speed MAS NMR spectroscopy
Liying WANG，Xuanjun AI，Zhihong LIU, Guangjin HOU，Riqiang FU，Feng DENG and Chaohui YE

E71 NMR evaluation of $Lu(NO_3)_3$ on metabolism in rats
Huifeng WU, Jianghua FENG, Guoying SUN and Fengkui PEI

E73 NMR study on the micellar microstructures of three anionic surfactants in aqueous solution
Xiaowen FANG, Zhiqiang JIN, Shizhen MAO, Hanhui WANG, Jiayong YU and Youru DU

E75 Dynamics of sodium 4-decyl naphthalene sulfonate molecules in micelles studied by ^{1}H NMR relaxation
Xiaoyan YANG , Xiaoli TAN, Hanzhen YUAN, Shizhen MAO, Sui ZHAO, Lu ZHANG , Jingyi AN, Jiayong YU and Youru DU

E77 ^{1}H-^{29}Si phase-modulated Lee-Goldburg decoupled heteronuclear correlation spectroscopy in hydrated layered silicates
Xuanjun AI, Feng DENG, Xiaoyan WEN, Jinxiang DONG and Chaohui YE

E79 The interaction between ibuprofen and lipoprotein particles studied by ^{1}H diffusion weighted NMR spectroscopy
Yunhuang YANG , Guoyun BAI, Xu ZHANG , Chaohui YE and Maili LIU

E81 Conformation and mobility of surfactant molecules in montmorillonite as studied by solid state NMR
Xiaoyan WEN, Xuanjun AI, Feng DENG, Jianxi ZHU, Hongping HE and Chaohui YE

SCHEDULE OF SESSIONS
ELECTROANALYTICAL CHEMISTRY

ORAL LECTURES

October 14, 2003 a.m. (Tuesday)
Site: Room 208 second floor
Presiding: R. GUILARD, S. KIHARA and Ruqin YU

8:25		A speech Erkang WANG
8:30	**F3**	Adsorption of molecules on clean electrodes Kingo ITAYA
8:55	**F5**	Studies of self-assembled monolayers with various scanning microscopies Masamichi FUJIHIRA
9:20	**F7**	Formation of fullerens adlayers on Au(111) studied by in situ scanning tunneling microscopy Soichiro YOSHIMOTO, Junji INUKAI, and Kingo ITAYA
9:35	**F9**	Underpotencially deposited layers of bismuth on Au (100):their structures and electrocatalytic activities Masanori HARA, Yoshiki NAGAHARA, Soichiro YOSHIMOTO, and Kingo ITAYA
9:50	**F11**	Characterization of nanoemulsion by atomic force microscopy (AFM) and scanning mobility particle sizer (SMPs) Zhuang LI, Yingsing FUNG, Derong Zhu, Hai HU, Tianyan YOU, Cindy CHAN, Hui SUN
10:05	**F13**	Electrochemical scanning tunneling microscopy of nickel phthalocyanine adsorbed on Au (111) in perchloric acid solution Bailin ZHANG, Junji INUKAI, Soichiro YOSHIMOTO and Kingo ITAYA

10:20-10:35 Recess

Presiding: K. ITAYA, H. GIRAULT and Shaojun DONG

10:35 **F17** Electrochemical tagging of cysteines during nanospray
L. DAYON, H. JENSEN, N. LION, T. ROHNER, C. ROUSSEL and H. H. GIRAULT

10:55 **F19** Biomimetic charge transfers through artificial membranes
Sorin KIHARA

11:15 **F21** Electrochemistry at the interface between the room-temperature molten salt and water
Takashi KAKIUCHI

11:35 **F23** Study of charge transfer processes at the liquid/liquid interfaces by three-electrode system
Yuanhua SHAO, Peng SUN, Meiqin ZHANG, Yong CHEN, Fei LI and Zhao GAO

11:50 **F31** Formation of ion-association metal complexes with neutral ionophores and lipophilic compounds and analytical characteristics of corresponding ISEs
Oleg M. Petrukhin, Svetlana N. Kurachenkova, Biktor V. Yakshin

12:05 **F33** Facilitated electron transfer of dopamine, adrenaline and ascorbic acid at glassy carbon electrode by modification bi-lipid film of 5,5-ditetradecyl-2-(2-trimethyl-ammonioethyl)-1,3-dioxane bromide
Xiangqin LIN, Jingming GONG

October 14, 2003 p.m. (Tuesday)

Site: Room 208 second floor

Presiding: C. AMATORE, M. FUJIHIRA and Zhongqun TIAN

2:00 **F15** Physicochemical properties and X-ray structural characterization of copper corroles and porphyrin dyads
Roger GUILARD

2:25 **F35** Newcastle disease antibody immunoassay: an amperometric approach
Ruqin YU, Jilai GONG, Fuchun GONG, Geming ZENG and Guoli SHEN

2:45 **F59** Nanoparticles in electroanalysis
Shaojun DONG

3:05 **F61** Metal nanoparticles embedded in graphite-like carbon film for electroanalysis
Osamu NIWA, Tianyan YOU, Zilin CHEN, Yuzuru IWASAKI, Koji SUZUKI, Shigeru HIRONO

3:25 **F145** HPLC with amperometric detection for monitoring organic acids in fermented foods
Kiyoko TAKAMURA, Akira KOTANI, Yuji MIYAGUCHI and Fumiyo KUSU

3:40-3:55 **Recess**

3:55 **F65** A sensitive mediator-free biosensor based on an inorganic-organic hybrid titania composite film
Ting ZHANG, Baohong LIU, Jilie KONG, Jiaqi DENG

4:10 **F69** Electrocatalytic oxidation of glutathione on multi-walled carbon nanotube-modified glassy carbon electrodes
Lanqun MAO and Yi CHEN

4:25 **F71** Investigation on hybrid polymer modified electrode for selective determination of biological compounds
Zhenhui WANG, Zhiguo LI and Shuping ZHOU

4:40 **F129** Aptamers and imprints for biomimetic sensors
Frieder W. SCHELLER, Axel WARSINKE, Kristian LETTAU, JOCHENF, WOLLER, E. Yilmaz, Klaus MOSBACH, Frank KLEINJUNG, and Frank F.BIER

5:00 **F135** Heterogeneous carbon sensors
Kurt KALCHER, Karel VYTRAS, Negussie BEYENE,Petr KOTZIAN

5:20 **F215** Patterning of surfaces with thin films of polypyrrole derivatives: new strategies for the construction of DNA biochips
Gérard BIDAN, André ROGET, Roberto CALEMCZUK and Thierry LIVACHE

Presiding: A. IVASKA, K. KALCHER and Xiangqin LIN

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3:25 **F63** The electrochemical biosensor constructed by nano-silver particles doped sol-gel film
Junjie ZHU, Yan ZHANG, Jinzhong XU and Hongyuan CHEN

3:40-3:55 **Recess**

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Kiyoko TAKAMURA, Akira KOTANI, Yuji MIYAGUCHI and Fumiyo KUSU

5:35 **F215** Patterning of surfaces with thin films of polypyrrole derivatives: new strategies for the construction of DNA biochips
Gérard BIDAN, André ROGET, Roberto CALEMCZUK and Thierry LIVACHE

October 15, 2003 a.m. (Wednesday)

Presiding: T. KAKIUCH, S. COSNIER and Xiurong YANG

8:30 **F127** Amperometric monitoring of vesicular exocytosis of neurotransmitters
Christian AMATORE

8:55 **F131** Biosensors based on electropolymerized films: new trends
Serge Cosnier

9:15 **F133** Polyaniline based ion sensors
Tom LINDFORS and Ari IVASKA

9:35 **F137** Application of biosensor based on screen-printed electrode in flow injection analysis
Xiurong YANG AND Qiang GAO

9:50 **F147** Enantioseparation of propranolol by capillary electrophoresis with square wave amperometric detection
Yajun TANG, Tianyao XIE, Diming XU

10:05-10:20 **Recess**

Presiding: **F. W. SCHELLER, K. TAKAMURA and Feimeng ZHOU**

10:20 **F177** Ultrasensitive detection of DNA hybridization and sequence- specific analysis with a flow-inject differential surface plasmon resonance
spectrometer
Xin YAO, Jun WANG and Feimeng ZHOU

10:35 **F179** Electrochemical investigation of electro-and-metal-transfer processes involving metallothioneins
Jianxiu WANG, Minli YANG, Yunfeng WANG and Feimeng ZHOU

10:50 **F191** A spectroscopic and electrochemical study of phenyl substituted phthalocyanine derivatives
Takamitsu FUKUDA, Shigetsugu HOMMA, and Nagao KOBAYASHI

11:05 **F183** Study of membrane-electrophoresis technique and the separation of amino acids with a direct and simplified end-column pulse electrochemical detection
Cheng FANG, Bingliang WU, Wuming ZHANG, Xingyao ZHOU

11:20 **F185** Voltammetric and spectroscopic study of interaction of Oxyteracyclin-Eu(III) complex with DNA
Xiaoquan LU, Min ZHANG, Lin ZHUO, Jingwan KANG

11:35 **F187** Electrochemical behaviour of cytochrome c assembled on ordered mesoporous Nb_2O_5 matrix via self-adjusted synthesis by acid-base pairs
Xin XU, Bozhi TIAN, Jilie KONG, Dongyuan ZHAO, Baohong LIU

11:50 **F189** A novel immunosensor for the detection of breast cancer
Ruping LIANG, Jianding QIU, Xiaoyong ZOU and Peixiang CAI

October 15, 2003 p.m. (Wednesday)

Site: Room 208 second floor

Presiding: O. NIWA, O. M. PETRUKHIN and Yuanhua SHAO

2:00 **F27** Molecular-level investigation on electrochemical adsorption behavior by Raman spectroscopy
Guokun LIU, Bin REN, Jianlin YAO, Reao GU, Zhongqun TIAN

2:20 **F25** Electrochemical microcalorimetry and its application in thermoelectrochemistry
Yongchun ZHU, Ying TIAN, Zhihang SHANG

2:35 **F29** In-situ microscopic FTIR spectroelectrochemical investigation of redox reactions of p-amino-phenol
Junguang JIANG and Shaojun DONG

2:50 **F37** Pridiction of protein secondary structure based on continuous wavelet transform
Jianding QIU, Ruping LIANG, Xiaoyong ZOU, Jinyuan MO

3:05 **F39** Application of a wavelet packet transform based radial basis function neural networks to analyze overlapping voltammograms
Shouxin REN and Ling GAO

3:20 **F121** Direct electrochemistry of glucose oxidase at a carbon nanotubes modified glassy carbon electrode
Chenxin CAI and Jing CHEN

3:35 **F125** Study on the voltammetric behaviour of ciprofloxacin and its determination at

Co/GCE ion implantation modified electrode
Xuecai TAN, Peixiang CAI, Jingbo HU and Qilong LI

3:50-4:05 **Recess**

Presiding: **M. WATANABE, T. TAKAMURA and Jilie KONG**

4:05 **F107** Co toterant alloy anode catalysts for direct methanol fuel cells
Masahiro WATANABE, Hiroyuki UCHIDA, Noriaki WAKABAYASHI, and Takahiro YAJIMA

4:25 **F109** Detailed study of Li movement through a copper foil monitored with a tungsten bronze electrode
Junji SUZUKI, Kyoichi SEKINE, and Tsutomu TAKAMURA

4:40 **F111** Chronoamperometry and impedance evaluation of the LiInsertion/extraction rates on carbon fibers with and without surface modification
Tsutomu TAKAMURA, Osamu OMAE, Keita YAMAGUCHI, Fumiaki KIKUCHI, Junji SUZUKI, and Kyoichi SEKINE

4:55 **F115** Photochemical and photo-trrigered reduction of $NADP^+$ by reconstituted myoglobins and cytochrome c and its application to photobiorecter
Katsuhiko NISHIYAMA, Yasuhiro MIE, Chiho. YAMADA, Hiromi IMAIZUMI, Shin-ichiro GOTO, Yasunobu HOSHIDE and Isao TANIGUCHI

5:10 **F117** Influence of charged sam and polyelectrolyte on Electrodeposition of polyaniline and electro-chemical preparation of ultrathin polyaniline films
Li NIU, Rose-Marie LATONEN, Shengqiang ZHANG, Carita Kvarnström, Shaojun DONG and Ari IVASKA

5:25 **F119** Immobilization of glucose oxidase with chitosan by the technique of electrostatic self-assembly
Haibin SHI, Qiang CHEN, Jun HAN, Baoyan WU, Songyan HAN, Bo HAN, Xinhua XU, Jun-ichi ANZAI, Tetsuo OSA

5:40 **F123** Ultra-thin alumina sol-gel-derived films: allowing direct detection of the liver fibrosis markers by capacitance measurement
Dechen JIANG, Jia TANG, Baohong LIU, Pengyuan YANG, Jilie KONG

POSTER SESSION

October 14, 2003 (Tuesday)
Site: Second floor corridor

F41 Charge transfer at the interface between aqueous and organic solution containing an oxidized porphyrin manganese complex
Megumi KASUNO, Tomoyuki KITANO, Khaleda BANU, Yumi YOSHIDA, Kohji MAEDA and Sorin KIHARA

F43 Electrochemistry and electrochemiluminescence of silica/$Ru(bpy)_3^{2+}$ multilayer films on ITO electrodes
Zhihui GUO, Yan SHEN, Mingkui WANG, Feng ZHAO and Shaojun DONG

F45 A novel Nafion®-Li/poly (vinylidene fluoridehexafluoro-propylene) copolymer blend electrolyte studied by electrochemical impedance spectroscopy
Mingkui WANG, Feng ZHAO and Shaojun DONG

F47 Coulometric electrolysis for the ion transfer at the aqueous/organic solution interface
Yumi YOSHIDA, Asuka YOSHIZUMI, Nobuyuki ICHIEDA, Akihiro UEHARA, Megumi KASUNO, Banu KHALEDA and Sorin KIHARA

F49 Systematic study of the transfer of amino acids across the water/1,2-dichloroethane interface facilitated by dibenzo-18-crown-6
Yong CHEN, Yi YUA, Fei LI, MeiqinZHANG, Peng SUN, Zhao GAO,Yuanhua SHAO

F51 A new Ca^{2+} sensor based on capacitance method
Bin Qi, Yufang SHA and Xiurong YANG

F53 In-situ circular dichroic electrochemical study of bilirubin and bovine serum albumin complex
Hanying BAI, Xiaoqiang LIU, Zheling ZHANG, Xiue JIANG and Shaojun DONG

F55 Multilayer nanofilm of magnetic nanoparticles and plate-shaped polyoxometalates
Minghua HUANG, Lihua BI, Yan SHEN, Weihui GUAN, Baifeng LIU and Shaojun DONG

F57 Investigation of the facilitated ion transfer reaction at high driving force by SECM and nanopipets
Fei LI, Peng SUN, MeiqinZHANG, Yong CHEN, Zhao GAO, Yuanhua SHAO

F73 CTAB templated gold nanowire seeding growth on mica: a tapping mode scanning force microscopy study
Wenlong CHENG and Erkang WANG

F75 Voltammetric behavior of isoniazid and its determination by single sweep oscillopolarography
Lijuan ZHANG, Shaofeng ZHANG, Ping WANG

F77 Self-assembled mololayer of n-hexadecyl-3, 6-di (p-mercaptophenylacetylene) carbazole on gold and its application in biomimetic membrane
Haifeng BAO and Erkang WANG

F79 Direct electron transfer and enzymatic activity of hemoglobin in a hexagonal mesoporous silica matrix
Zhihui DAI and Huangxian JU

F81 Poly (thionine)-poly (acrylic acid) composite films as functionalized surface for assembly of alcohol dehygrogenase on a screen-printed carbon electrode
Qiang GAO, Weidong WANG, Yufang SHA and Xiurong YANG

F83 Determination of aniline and its derivatives by voltammetry using an electrochemically modified gassy carbon electrode
Lijun ZHANG, Zhanen ZHANG

F85 Electrochemical detection of DNA damage induced by Fenton reaction using an eletrochemically pretreated gassy carbon electrode
Huaisheng WANG, Huangxian JU, Hongyuan CHEN

F87 Cyclic voltammetry of echinomycin at electrochemically pretreated glassy carbon electrode
Nan LI, Liping GUO, Ying MA, Yufang SHA and Xiurong YANG

F89 Electrocatalytic oxidation of catechol at multi –walled carbon nanotubes modified electrode
Zhiai XU, Xu CHEN, Xiaohu QU and Shaojun DONG

F91 Electrochemical behaviours of dopamine and ascorbic acid on gold electrode modified by new porphyrin bound to self-assembled monolayer
Xiaoquan LU, Zhonghua XUE, Yongsheng WANG, Baoqiang LV and Jingwan KANG

F93 Cathodic polymerization of aniline by an in situ Electrogenerated oxidant towards nanoislands or an ultrathin film
Yong SHAO, Yongdong JIN, Xuping SUN and Shaojun DONG

F95 Spontaneous network forming of single-walled carbon nanotubes
Xiaohu QU and Shaojun DONG

F97 Preparation of phosphopolyoxomolybdate $P_2Mo_{18}O_{62}^{4-}$ doping polypyrrole modified electrode and catalytic property
Xiangqin ZOU and Shaojun DONG

F99 Application of multi-wall carbon nanotubes film coated electrode for voltammetric determination of bisphenol A
Shaofang LÜ, Junjie FEI, Shengshui HU

F101 Assembly of multilayer films containing iron(III)-substituted dawson-type heteropolyanions and its electrocatalytic properties: cyclic voltammetry, electrochemical impedance spectroscopy and UV-vis spectrometry
Shengyong ZHAI, Shaoyun GONG, Junguang JIANG and Jinghong LI

F103 Electrochemical investigation of functionalized self-assembled monolayers on gold electrode
Yongsheng WANG, Jingwan KANG, Zhonghua XUE, Baoqiang LV and Xiaoquan LU

F105 Quantized capacitance charging of 3-mercapto-1, 2-propanediol monolayer protected gold nanoclusters in aqueous media
Di LI and jinghong LI

October 15, 2003 (Wednesday)
Site: Room 208 second floor

F139 Beneficial role of cetyltrimethylammonium bromide for deposition of TiO_2 on F-doped SnO_2
Hyun-Ju AN, Hyun-Yong BYUN, R.VITTAL and Kang-Jin KIM

F141 The eletrochemical sensor for propellant of hydrazine compounds
Ye CAO, Guangyou ZHANG, Wenxiang HU, Peirang CHEN

F143 Direct electrochemistry of cytochrome c promoted by the nanoporous alumina templates
Yuhua QIN, Liheng ZHOU, Shengtian WANG, Hongding XU, Jinghong LI

F149 Determination of carbohydrates on microchip with electrochemical detection at copper electrode
Yan DU, Jilin YAN, Weihong ZHOU, Xiurong YANG and Erkang WANG

F151 Study of drug-human serum albumin binding using capillary electrophoresis with electrochemicalluminescence detection
Xiaocui ZHAO, Jifeng LIU, Xiurong YANG and Erkang WANG

F153 Different methods of immobilizing DNA on mica surface for atomic force microscopy imaging
Zhiguo LIU, Zhuang LI, Aiguo WU, Jianping ZHENG, Hualan ZHOU and Gang WEI

F155 The star activity sites of ecori on DNA strands without cations investigated by atomic force

microscopy
Gang WEI, Zhuang LI, Aiguo WU, Jianping ZHENG, Hualan ZHOU, Zhiguo LIU and Yonghai SONG

F157 Direct patterning of poly-l-lysine on mica by dip-pen nanolithography
Hualan ZHOU, Zhuang LI, Aiguo WU, Jianping ZHENG, Gang WEI and Zhiguo LIU

F159 Self-aggregation nanodisks of silver nanoparticles on bare mica substrates
Aiguo WU, Jiabo JIA, Zhuang LI, Junguang JIANG, Shaojun DONG and Erkang WANG

F161 Chitosan mediated assembly of gold nanoparticles multilayer
Haizhen HUANG and Xiurong YANG

F163 Interaction between non-viral gene carriers and DNA studied by surface plasmon resonance
Fan YANG, Xiaoqiang CUI and Xiurong YANG

F165 Spectroelectrochemistry studies on the oxidation of 3,3',5,5'-tetramethylbenzidine
Kui JIAO, Tao YANG, Jie YANG

F167 Layer-by-layer assembly of multilayer enzyme films studied by surface plasmon resonance and electrochemical impedance spectroscopy
Ying MA, Shouhui CHEN, Xiaoqiang CUI, Qiang GAO, Cheng YANG, Yufang SHA and Xiurong YANG

F169 The effect of electrode surface on electrochemically induced conformation in cytochrome c studied by in-situ circular dichroism spectroelectrochemistry
Xiue JIANG, Xiaohu QU, Zheling ZHANG, Hanying BAI, Junguang JIANG, Erkang WANG and ShaojunDONG

F171 Enantioseparation of 1,1'-bi-2-naphthol by capillary electrophoresis with square wave amperometric detection
Yuxuan XIE and Tianyao XIE

F173 Fabrication of integrated microelectrodes for electrochemical detection on electrophoresis micro-chip by selective electroless deposition
Jilin YAN, Xiurong YANG and Erkang WANG

F175 Poly (dimethylsiloxane)-based microchip capillary electrophoresis with electrogenerated chemiluminescence detection
Haibo QIU, Jilin YAN, Xiuhua SUN, Xiurong YANG and Erkang WANG

F193 Simultaneous determination of dopamine and ascorbic acid at an in site functionalized self-assembled monolayer on gold electrode

Lei ZHANG, Jianbo JIA, Xiangqin ZOU and Shaojun DONG

F195 Seperation of ursolic and oleanolic acid from the fruit of cornus officinalis by capillary electrophoresis
Jun LI, Zhuobin YUAN

F197 Determination of hersperetin, cinnamic acid and nicotinic acid in propolis with micellar electrokinetic capillary chromatography
Yuanqi LÜ, Chunhua WU and Zhuobin YUAN

F199 Voltammetric determination of desferrioxamine and hydroxypyridinones
Junwei DI, Feng ZHANG, Shuping BI

F201 Electrochemical investigation of the interaction between the Eu^{3+} -quercetin complex and DNA
Jingwan KANG, Lin ZHUO, Min ZHANG, Xiaoquan LU

F203 Voltammetry at 1,6-dichlorohexane/water interface
Hajime KATANO, Hirosuke TATSUMI, and Mitsugi SENDA

F205 Electrochemical studies on the interaction of bromocresol purple with albumin
Wei SUN, Kui JIAO, Xueliang WANG

F207 Osteryoung square wave voltammetric determination of lactose in food samples
Yongnian NI, Yuerong WANG

F209 An electrochemical immunosensor for assays of c-reactive protein
Jinzhong XU, Junjie ZHU, Jintao HE, Hongyuan CHEN

F211 Electrochemical behavior of dopamine at the caffeic acid modified glassy carbon electrode
Chunhua WU, Yuanqi LÜ and Zhuobin YUAN

F213 The thermodynamical parameters describing an adsorption of organic substance (SAS) on metal and its inhibiting properties
Boris AFANASYEV, Yuliya AKULOVA, Ekaterina ALEXANDROVA, Olga YAKOVLEVA.

SCHEDULE OF SESSIONS
G: LIFE SCIENCE

2003-10-14 a.m.
Site: Room G204

Presiding: Edward YEUNG, Liren MA

8:00 **Opening Address: Guofan JIN**

8:10 **G 3** Thermal lens detector for non-fluorescent molecules at single molecule levels and microchip chemistry for life sciences
Takehiko KITAMORI

8:40 **G 7** *Tissue protein expressions of human lung carcinomas and in the application of clinical diagnostics at the protein level*
Guoan LUO, Bin DENG, Hongli WANG, Jie WANG, Xian CHEN, Yiming WANG and Kaihua WEI

9:10 **G63** Supported bilayer lipid membranes (Planar Lipid Bilayers) in biosensor development
H. T. TIEN, Anglica OTTOVA

9:40 – 10:00 **Recess**

Presiding: Takehiko KITAMORI, Guoan LUO

10:00 **G** Applications of supported planar lipid bilayers (s-BLMs): An approach for biosensor development
Anglica OTTOVA , H. T. TIEN

10:30 **G23** Secondary ion mass spectrometry stury of the pharmacokinetics of sodium borocaptate in liver cancer bearing rats as an aid to boron neutron capture therapy
Y. C. LING, M. S. HSU and K. Y. CHEN

11:00 **G55** Development of microfluidic chips for monitoring of cell-based reactions
Cheuk-Wing LI, Jun YANG and Mengsu YANG

11:30 **G** Binding of cytotoxic protoberberine alkaloids to double-stranded DNA
Wen-Hua CHEN, Chi Leung CHAN, Zongwei CAI and Zhi-Hong JIANG

2003-10-14 p.m.
Site: Room G204

Presiding: Y. C. LING, H. T. TIEN, A. OTTOVA

13:30 **G25** Studies on the novel homogeneous fluorogenic gene probes to the real-time detection of Hepatitis B virus pathogen
Hanxi SHEN, Deming KONG, Yanping HUANG and Huaifeng MI

14:00 **G39** Explorations of new analytical methods and instruments for complex system with unknown components in life sciences
Yutian WU, Yifeng CHAI, Feng LU, Xueping YIN, Guorong FAN, Yunpeng QI, Jie XIAO, Wei CI, Jianjun WANG, Tingting ZHOU, Wenxiang JIN, Zhihua WANG and Xiaobo WU

14:30 **G31** Study on the therapeutic basis of traditional Chinese medicinal preparation suanzaoren decoction
Kaisun BI

14:50 **G61** The theory of cell membrane chromatography and its applications in pharmaceutical research
Langchong HE, Guangde YANG, Sicen WANG, Bingxiang YUAN, Mingjin LIANG, Zhen HU and Xindu GENG

15:10 **G35** Monitoring the extraction process of *Radix Salviae Miltiorrhizae* using near infrared spectroscopy
Haibin QU, Yiyu CHENG and Bin Li

15:30 – 15:45 **Recess**

Presiding: Yutian WU, Mengsu YANG

15:45 **G67** Surface plasmon resonance and bead-based flow cytometry, two very promising techniques for life science
Ying MU, Qinhan JIN

16:15 **G19** Determination of amino acids using Microfluidic chip-based capillary electrophoresis with continuous sample introduction
Qun FANG, Guangming XU, Qiaohong HE, Zhijian JIA, Jinglin FU, Nan WANG, Hengwu CHEN and Zhaolun FANG

16:35 **G45** The accumulation of selenium in garlic and detoxicity of cadmium by selenium
Jing HA, Hanwen SUN

16:55 ***G21*** The amino acid sequence determination of the active peptides in pig cerebroprotein hydrolysate
Xiaonan ZHANG, Bingjiu XU

17:15 **G11** Integral membrane protein structural Genomics: My cobacterium tuberculosis
Fei P. GAO, Alla KOREPANOVA, Yuanzhi HUA, Huajin QIN and Timothy A. CROSS

2003-10-15 a.m.
Site: Room G204

Presiding: Hanxi SHEN, Zhihong JIANG

8:00 **G37** High performance liquid chromatography - electrospray ionization - mass spectrometry analysis of *Acanthopanax Giraldii Harms*
Zhuwei WANG, Yuqing SUN

8:20 **G85** A mediator-free screen-printed amperometric biosensor for detecting organophosphorus pesticides with flow-injection analysis system
Mianhong SHI, Song ZHANG, Baohong LIU, Yinyin LIN, Yiping HUANG and Jilie KONG

8:35 **G75** Electrochemical behaviors of L-Cysteine at α-Cyclodextrin incorporated carbon nanotubes coated electrode
Zonghua WANG, Sufang XIAO and Guoan LUO

8:50 **G43** Direct analysis of drugs in plasma by column switching liquid chromatigraphy-electrospray mass spectrometry using methylcellulose-immobilized reversed phase pretreatment column
Yuki HASHI, Shin-ichi KAWANO, Hiroyuki MURAKITA, Junko IIDA, Eiichi YAMAMOTO, Naoki ASAKAWA and Lu DONG

9:05 **G27** New approaches to the detection of cancer biomarkers from small sample sizes using laser capture microdissection with mass spectrometry
S. L. WU, G. G. GOODRICH, S. T. KUNITAKE and W. S. HANCOCK

9:20 - 9:35 **Recess**

Presiding: Kaisun BI, Hanwen SUN

9:35 **G69** Study on the properties three-biacridine chemiluminescent probes in the biomacromolecule recognition detection
Huisheng ZHUANG, Qionge WANG, Guonan CHEN and Jinling HUANG

9:50 **G79** Research on the stability of the product ion ratios in ESI-MS/MS analysis
Ping SUN, Guoan LUO and Jun QU

10:05 **G73** Fluorometric determination of trace copper(II) with a new fluorescent reagent 5-(4-fluorophenylazo)-8-salicylidene aminoquinoline
Mingcui ZHANG, Leyu WANG, Hongqi CHEN, Ling LI and Lun WANG

10:20 **G71** Determination of dopamine hydrochloride by a flow injection chemiluminescence quench method
Shuhao WANG, Lingyun DU, Liangyu WANG and Huisheng ZHUANG

10:40 – 12:00 **POSTER SESSION**

Presiding: Qun FANG, Liushui YAN
Site: Poster Hall

G13 Analysis of post-transl modificationusing Ion Trap MS^N coupled with protein identification, denovo sequencing, and structure modification software in a high throughput way
S.L. Wu, A. HUHMER, I. JARDINE, THERMOFINNIGAN and San JOSE

G15 A comparison of shotgun sequencing and 2-D electrophoresis
S.L. WU

G41 Direct injection of blood plasma for the determination of drugs using a newly developed column switching HPLC system
Yuki HASHI, Jun NAGATA, Masatoshi TAKAHASHI, Keiko YAMABE, Takeshi GOTO, Hirohisa MIKAMI, Lu DONGand Liyue QI

G47 Method of the multi-wavelength chromatograpic fingerprints and it's application
Zhen HU, Guoan LUO, Langchong HE, Jin CAO, Yan XU

G49 Comparison of methods for evaluating the similarity of fingerprints of Traditional Chinese Medicine in chemical pattern recognition
Lei NIE, Jin CAO, Yiming WANG and Guoan LUO

G51 Studies on constituents from *Fructus Gardenia Jasminoides* by ESI-MS
Shengyuan XIAO, Zheng HU, Guoan LUO and Yiming WANG

G53 Study on the LC-MS$^{(n)}$ method of 24(R)-Pseudo-Ginenoside in *Panax Quinquefolium L.*
Xinfeng ZHAO, Zhen HU, Xiaohui ZHENG, Xiaoyong LI and Zhongmin ZHU

G57 Studies on imaging and observation of single cell
Zhuobin YUAN, Jun LI and Jun ZHANG

G77 Crucial factors for high pre-selectivity of caffeine imprinted monolithic column
Liushui YAN, Guoan LUO and Yiming WANG

G83 The application of carbon nanotubes in electrochemistry
Zhuobin YUAN, Yueling WANG

SCHEDULE OF SESSIONS
ENVIRONMENTAL ANALYSIS

ORAL SESSIONS

2003-10-14 a.m. (Tuesday)
Site: Room 201 second floor
Presiding: Yury ZOLOTOV and Guibin JIANG

8:00 Opening Address

KEY LECTURES

8:10 **H1** Synchrotron computed x-ray fluorescence microtomography in environmental and earth sciences
Laszlo VINCZE, Bart VEKEMANS, Freddy ADAMS

8:50 **H5** Miniaturisation in environmental measurements
Gillian M. GREENWAY

ORAL LECTURES

9:30 **H63** Characterization of Beijing atmospheric aerosol with single particle analysis method
Rui XIAO, Xiande LIU, Shuping DONG, Hangdong LIANG and Freddy ADAMS

9:50 **H103** Determination of organo-phosphorus pesticides residues in agricultural products using GCMS
Yoshiyuki OKAMURA, Toyohito WADA, Yoshihiro, SAITO, Takaharu KITSUWA, Ya Ping QIN and Yuki HASHI

10:10-10:30 **Recess**

Presiding: Kazuichi HAYAKAWA and Shuping BI

10:30 **H77** Molecularly imprinted polymers prepared by in situ polymerization with photoinitiation within a microchip channel
Jiandu LEI, Aijun TONG

10:50 **H35** The simulataneous determination of the key elements in the environmental samples by ICP-MS
Dengyun CHEN, Christopher TYE

11:10 **H85** Chemiluminescence reaction between carbonate with peroxynitrous acid and its application to environmental analysis
Chao LU, Feng QU, Jin-Ming LIN

11:30 **H105** LC-MS ANALYSIS OF ANTIFOULING AGENT IRGAROL 1051 AND ITS METABOLITES IN SEAWATER
Tianxiu QIAN, Ka-Ho LAM, David T.W. CHIK, Wai Tang MA, James TSUI, Michael H. W. LAM and Zongwei CAI

2003-10-14 p.m. (Tuesday)
Site: Room 201 second floor
Presiding: Freddy ADAMS and Xiande Liu

KEY LECTURES

13:30 **H7** Determination of atmospheric carcinogenic/endocrine disrupting chemicals in east Asia: polycyclic aromatic hydrocarbons and nitropolycyclic aromatic hydrocarbons
Kazuichi HAYAKAWA , Ning TANG, Ryoichi KIZU and Akira TORIBA

14:10 **H11** Screening of samples for environmental inorganic analysis
Yury ZOLOTOV

ORAL LECTURES

14:50 **H27** Innovative membrane extraction used as sample pretreament technique for the determination of endocrine disruptors in water
Yiping XU, Jian LI, Lili LIU and Zijian WANG

15:10 **H39** Turbidimetric and electrokinetic study of synthetic and natural colloidal particles in the presence of ionic surfactants
Yanqin JI, Rainer KOSTER, Marian JANEK

15:30-15:50 **Recess**

Presiding: Gillian M. GREENWAY and Jinmin LIN

15:50 **H13** Solid-phase extraction of several phthalate esters from environmental water samples with multi-walled carbon nanotubes packed cartridge and their determination by high performance liquid chromatography
Yaqi CAI, Guibin JIANG, Jingfu LIU, Qingxiang ZHOU

16:10 **H37** Determination of five aluminum fractions in natural waters by A.C adsorption oscillochronopotentiometry using tiron
Ning GAN, Jianping LEI, Hai LIN and Shuping BI

16:30 **H97** Determination of phenol pollutants in waste water by on line sweeping technique
Gengliang YANG, Hongyuan YAN, Fengxia QIAO, Haiyan LIU and Yi CHEN

16:50 **H65** Speciation of cadmium in environmental samples by using dynamic HPLC coupled with on-line hydride generation atomic fluorescence spectrometry
Hua YAN, Qiuquan WANG, Yuchen HONG, Limin YANG and Benli HUANG

17:10 **H93** The coupling of molecular imprinted polymer with capillary eletrophoresis for the analysis of atmospheric carbonyl compounds
Hui SUN, Kong-Yee CHAN, Y.S. FUNG

2003-10-15 a.m. (Wednesday)
Site: Room 201 second floor
Presiding: Antonius A. KETTRUP and Zijian WANG

KEY LECTURES

8:00 **H9** Environmental monitoring by instrumental analysis and bioassays
Antonius A.F. KETTRUP

ORAL LECTURES

8:40 **H113** On-Line Pretreatment System with Small-Sized Thin Solid Phase(STSP) for Trace Metal Analysis by Flow-Injection Spectroscopic Methods
Shoji MOTOMIZU and Yunhua GAO

9:20 **H87** LC/MS analysis of polar nitroaromatic compounds in underground water from Marburg, Germany
Wai-tang MA, Zongwei CAI, Klaus STEINBACH

9:40 **H33** Laser-induced breakdown detection (LIBD) as a novel and highly sensitive method for nano-particle analysis
Tobias BUNDSCHUH, Tobias WAGNER and Rainer KOSTER

10:00-10:20 **Recess**

Presiding: Shoji MOTOMIZU and Zongwei CAI

10:20 **H43** Evaluation of mollusks as biomarkers to investigate heavy metal contaminations in Chinese Bohai sea
Lina LIANG, Bin HE, Guibin JIANG and Dengyun CHEN

10:40 **H57** Speciation analysis of environmental water samples with liquid (ion) chromatography inductively coupled plasma-mass spectrometry (LC(IC)-ICP-MS)
Tadashi TANIGUCHI, Susumu HASHIMOTO, Nobuhiko NISHI, Kouji OKADA, Yuki HASHI, Ji SHAN and Tetsuya MASUDA

11:00 **H61** Improved sensitivity for the direct quantification of nanoparticles by means of laser-induced breakdown detection (LIBD)
Tobias WAGNER, Tobias BUNDSCHUH, Rainer KOSTER

11:20 **H51** Development and evaluation of alterative approaches for the determination of arsenic species in food and environmental samples
Maria OCHSENKÜHN-PETROPOULOU, Fotios TSOPELAS, Klaus-Michael OCHSENKÜHN and Lambrini TSAKANIKA

11:40 **H73** Analysis of benzyldimethyldodecylammonium bromide in compound chemical disinfectants by liquid chromatography and capillary electrophoresis
Xiaojing DING, Shan ZHAO, Junxing KANG

12:00 **H109** Synthesis and identification of 2,4-D artificial antigen for environmental immunoassay
HUISHENG ZHUANG, JING ZHANG, JINGHUA CHEN, QIONG'E WANG and JINHUA LI

POSTER SESSION

2003-10-15 p.m. (Wednesday)
Site: Second floor corridor
Presiding: Lina LIANG and Tianxiu QIAN

H25 Integrated electrochemical detection on glass microchip using carbon fiber microelectrode
Youyi WU, Feng QU, Jin-Ming LIN

H29 Micro-plate chemiluminescence magnetic enzyme immunoassay for rapid, sensitive determination of human chorionic gonadotropin
Lixia ZHAO, Yongning Wang, Feng QU, and Jin-Ming LIN

H31 *Study of high sensitivity methods used in oil & gas exploration in the south sea of China*
Xingtao AI, Hanseng LIU, Jiaming ZHANG, Wangyun MA and Dieyan CHEN

H41 Studied adsorption of cationic polyacrylamide on silica surface by pizoelectric sensor
Wenpeng LI, Yongbao CHU, Dazhong SHEN

H45 Analysis of inorganic salts in atmosphere aerosol by FTIR
Haixia LIU

H49 Fractionation and spatial distribution of lead in sediment cores from Daya Bay
Dehai MU, Yonghong SHU, Shiping YAN and Jiagai ZHEN

H59 Study on the chemiluminescent analysis of polyhydroxphenol
Qiong'e WANG, Huisheng ZHUANG

H67 Effects of different rare-earth elements' species on the growth of narcissus
Limin YANG, Wenwu YAN, Qiuquan WANG

H71 Direct separation and detection of transition metal ions Pb^{2+}, Zn^{2+} and Cd^{2+} by non-aqueous capillary electrophoresis with indirect photometric method
Qingxiang ZHOU, Guibin JIANG, Guoguang LIU, Jingfu LIU and Yaqi CAI

H81 Application of LPME/GC-ECD for the determination of PCP in aqueous samples
Ping LI, Junxin LIU

H83 Analysis of dioxins in 1,4-dichlorobenzene
Wenbin LIU, Bing ZHANG, Minghui ZHENG

H89 Preliminary study on emission gas from the ventilators of the second Shanghai sewerage project
Peiming SHEN

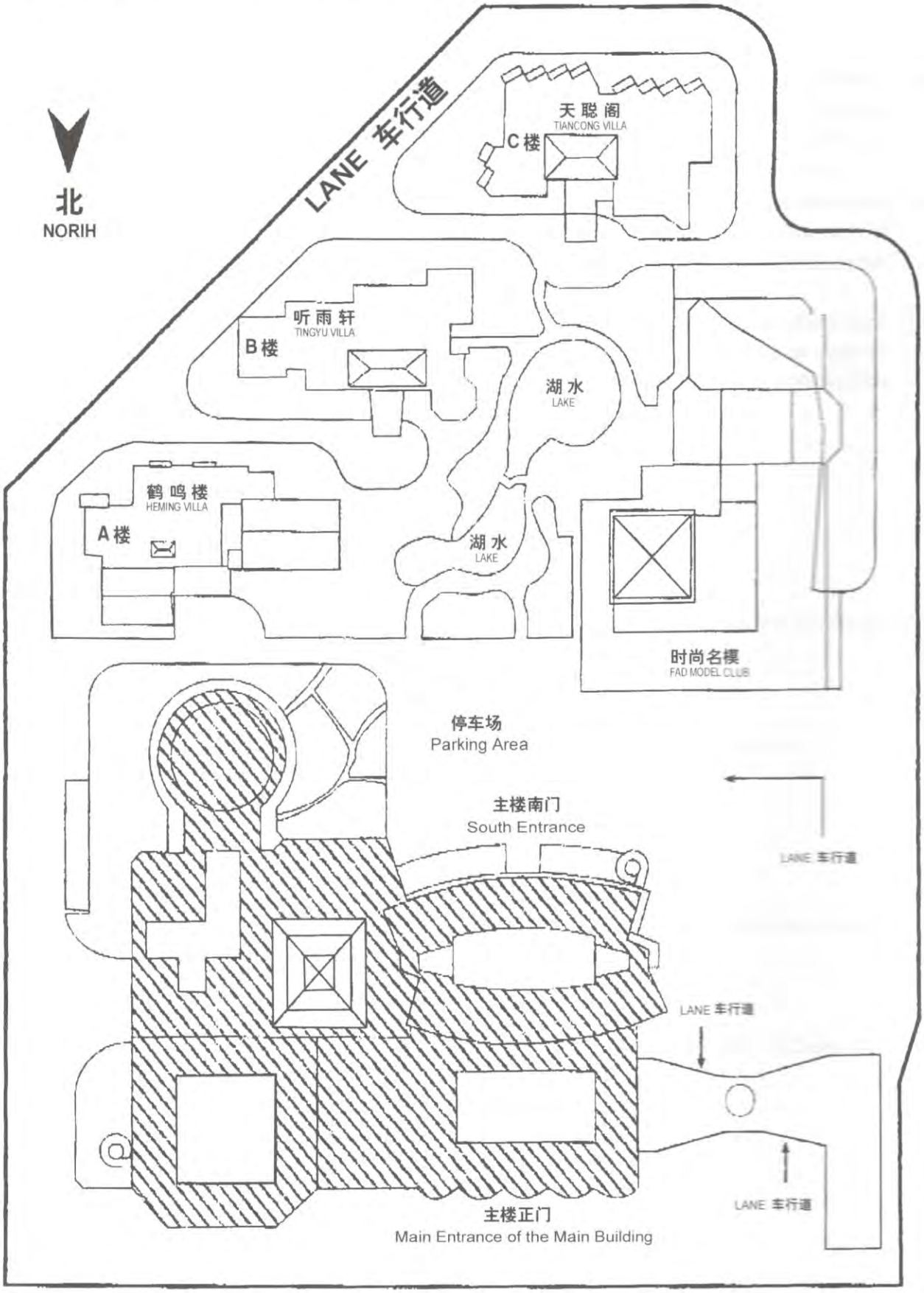
H91 On-line sample stacking in micellar electrokinetic chromatography with cyclodextrin as modifiers for the determination of polycyclic aromatic hydrocarbons
Guanqun SONG, Feng QU, Jin-Ming LIN

H95 The quantitative analysis of a selected organic compound in aerosol
Yunlong WANG, Naiyan WANG, Zhisheng ZHANG and Shuhong BA

H99 Identification of intermediates of azo dye C. I. Reactive black 5 during the ozonation
Feifang ZHANG, Ayfer YEDILER, Xinmiao LIANG, Jiping CHEN, Qing ZHANG and Antonius KETTRUP

H101 Determination of PCB_s in soil samples from a typical contaminated region using isotope dilution method
Xingru ZHAO, Minghui ZHENG, Bing ZHANG and Wenbin LIU

H107 Optimization for analysis of CHC_s with temperature programmed gas chromatography
Xinygya XUE, Jiping CHEN, Xinmiao LIANG, Qing ZHANG, Dieter MARTENS and Antonius KETTRUP



Meeting Area

MAP OF THE CENTRAL GARDEN HOTEL COMPLEX

CONFERENCE ROOM

A
Electron microscopy
(ROOM 202)

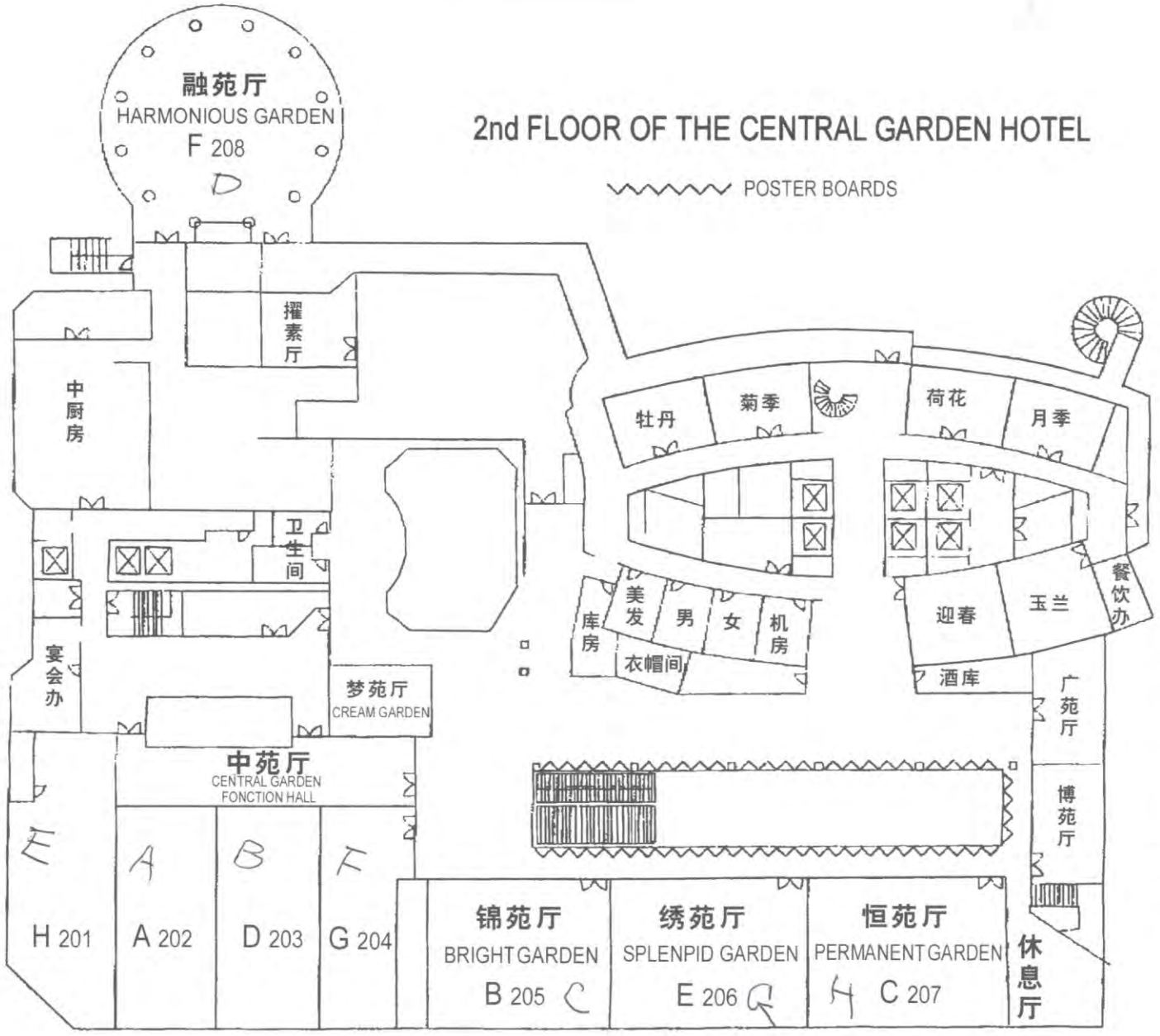
B
Mass Spectrometry
(ROOM 205)

C
Spectroscopy
(ROOM 207)

D
Chromatography
(ROOM 203)

2nd FLOOR OF THE CENTRAL GARDEN HOTEL

POSTER BOARDS

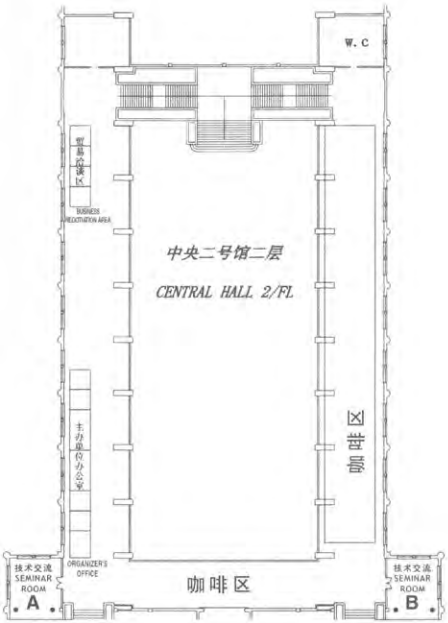


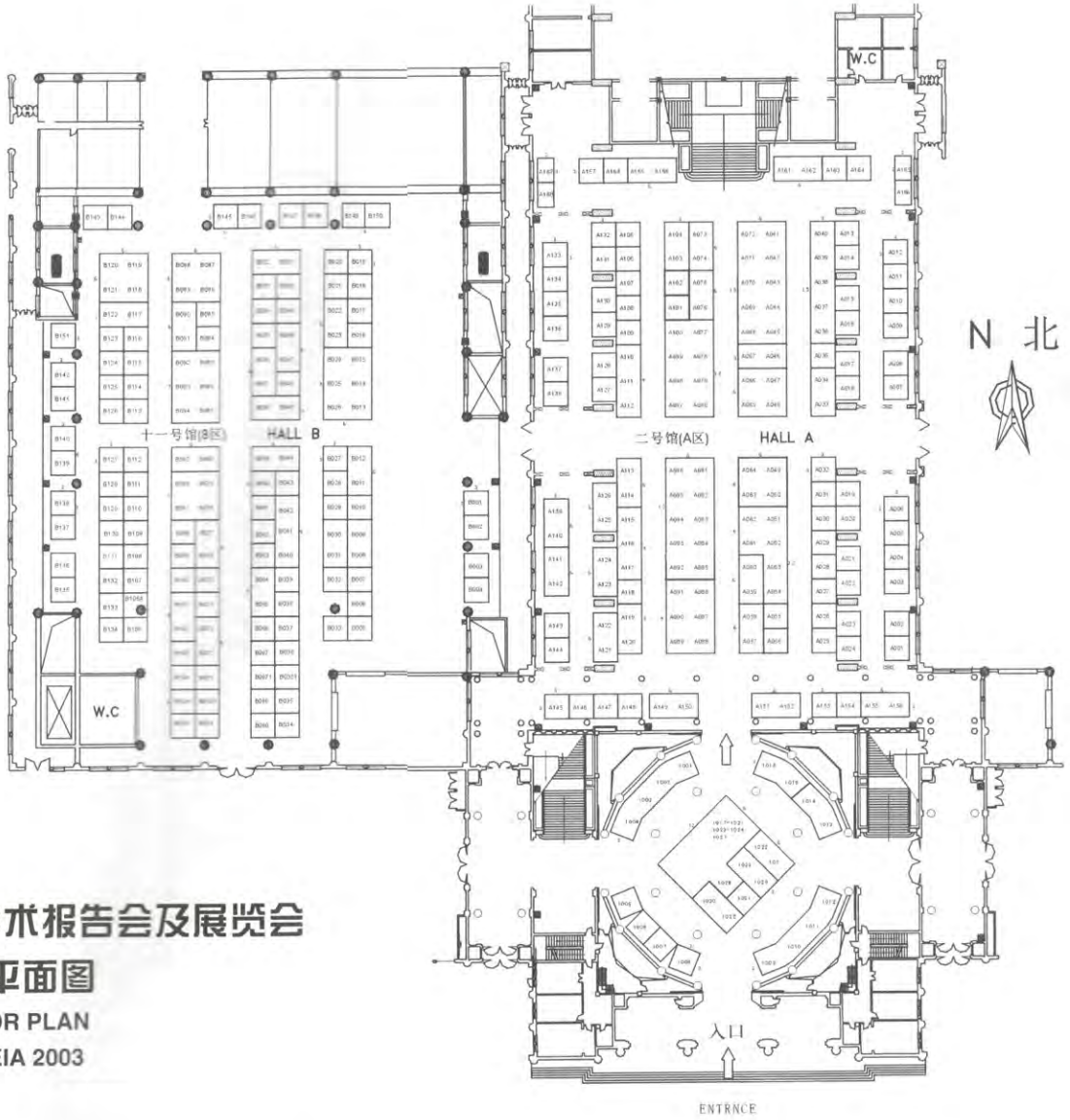
E
Magnetic Resonance
(ROOM 206)

F
Electroanalytical Chemistry
(ROOM 208)

G
Life Science
(ROOM 204)

H
Environmental Analysis
(ROOM 201)





第十届北京分析测试学术报告会及展览会
展览场地平面图

EXHIBIT FLOOR PLAN FOR THE BCEIA 2003

INDEX OF EXHIBITORS

COMPANY NAME:	BOOTH NO.
1. Agilent Technologies	A086, A087, A088, A089, A090, A091
2. Aitech Innovations Co., Ltd.	A008
3. AKZO NOBEL/EKA CHEMICALS AB	1005
4. Alltech Scienctific (China) Ltd.	A123, A124
5. AMETEK P&AI	A167
6. Ample Technology Center	A067
7. Beijing Ample Technology Instrument Co., Ltd.	A046
8. Analytik Jena AG	A110, A111, A112
9. ANALYX TECHNOLOGY CORPORATION	B058, B045
10. Appliedbiosystems	1007
11. AVI-GmbH	A101
12. AWS MECHANICAL & ELECTRICAL TECHNOLOGY DEVELOP CO.	B127
13. BAL-TEC AG	B053
14. Beckman Coulter Hong Kong Ltd.	A121, A122
15. Beijing Anheng Test-tech CO., LTD	A137
16. Beijing BCHP Analytical Technology Institute	A013
17. Beijing Beifen-Ruili Analytical Instrument(Group)Co., Ltd.	B081, B082, B083, B092, B093, B094
18. Beijing BioWin Scientific Development Co.Ltd.	A164
19. BeiJing BoyiKang Laboratory Instruments Co.,Ltd	B132
20. Beijing BRK Electrical Co.,Ltd	B125
21. Beijing Cailu Science Instrument CO., LTD	B066
22. Beijing Chemical Analytic Intruments Institute Beijing shijixinwei Science and Technology Ltd.	B090, B091
23. Beijing Chemical Reagents Company	A014

24. Beijing ChinaInvent Instrument Tech. Co.,Ltd. **B060**

25. Beijing Dequan Scientific Development Co.Ltd. **B068, B069**

26. BEIJING DESIWEI TRADE CORPORATION **B008, B009**

27. Beijing Eastsunland S&T Co., Ltd. **B055**

28. Beijing Enovi Trade Co., Ltd. **A153**

29. Beijing EPOCH Electronics Instrument Company **A151, A152**

30. BEIJING HAIDIAN CHAOSHENG TECHNOLOGY CO. **A138**

31. Beijing Haiguang Instrument Company **B013, B014, B015, B024, B025, B026**

32. Beijing Hangseng Technology Co., Ltd. **A050**

33. beijing haotian **A129**

34. Beijing Honoprof Sci.& Tech. Ltd. **B115**

35. Beijing Huakeyi Electrical Instrument Research Institute **A107**

36. Beijing Hui Jia Jing YI Industry & Trade Co., Ltd **A143**

37. BEIJING INCE INSTRUMENT CO **B040, B041, B042**

38. Beijing Kanglin Science & Technology Co.Ltd., ... **B007**

39. BEIJING LIGHTACE INSTRUMENT & EQUIPMENT CO.LTD. **A141, A142, B029**

40. BEIJING MICHEM TECHNOLOGY LTD. **B020**

41. Beijing Mingnike Analytical Instrument & Equipment Center **A018**

42. Beijing NCS Analytical Instruments Co., Ltd. **B108, B109**

43. Beijing Oriental Science and Technology Co. Ltd. **B074**

44. Beijing Purkinje General Instrument Co.,Ltd **A077, A078, A079, A080, A097, A098, A099, A100**

45. Beijing Titan Instrument Co.,Ltd **A047, A048, A065, A066**

46. Beijing Qingke Yuan Environment Technology Co.,Ltd **A024**

47. Beijing QuiXave United Technology Ltd. Corporation **B030, B031**

48. Beijing Sartorius Instrument&System Engineering Co.,Ltd. **B080, B095**

49. Bejing ShuaiYi Science & Techology Development Corporation **B016**

50. BEIJING UNI-S TECHNOLOGY CO. LTD **B151**

51. Beijing Webchannel Technology Ltd.Co. B047, B048

52. Beijing Wenfeng Analytical Instument Technology Development CO. B105

53. BEIJING WHOLE WAY NORTH SCIENTIFIC DEVELOPMENT CO., Ltd. A154

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55. Beijing Xingang B142

56. Beijing York Instrument LTD. B099

57. Beijing Yili Chemical Co.,Ltd. B131

58. Beijing Zhongke Huaxing Science & Trade Co., Ltd. B085

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61. Biochem Science Company B028

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68. Changchun Jilin University-Little Swan Instruments Co., Ltd. B139

69. CHINA chromatography WEB /HANGZHOU PUHUI Science and Technology CO. LTD B100

70. China Electronics International Economic Cooperation Co. 1031

71. CHINA NATIONAL SCIENTIFIC INSTRUMENTS & MATERIALS IMPORT/EXPORT CORPORATION B143

72. Dalian Elite Scientific Instruments Co., Ltd. B064, B065

73. Dalian Huayang Scientific Instrument Co.,Ltd. B033, B037, B038

74. DIKMA CO. B044, B059

75. DIONEX CHINA LIMITED B054

76. DIONEX CHINA LIMITED(BEIJING) B022, B023, B049

77. DZF-Infonet Ltd B067

78. East SunGene Technology (Beijing) Co. Ltd. B129, B130

79. EDAX Inc. **A105**

80. Elaborate Technology Development Ltd. B144

81.Elementar Analysensysteme GmbH **A032**

82. ESCO MICRO PTE. LTD. **B114**

83. EURO TECH (CHINA) LTD., ... **A139, A140**

84. EUTECH INSTRUMENTS **B098**

85. EverBest Hi-Tech Co., Ltd **A003**

86. EVERISE TECH & TRADE LTD **A118**

87. FEI Hong Kong Company Limited **A075, A076**

88. FOSS TECATOR AB **B104**

89. Fritsch GmbH **B063**

90. FrontChina Ltd. **B050, A145**

91. LabTech **B1041**

92. Gatan Inc. **1008**

93. General Signal (China) Co.,Ltd(Beijing) **B137**

94. Grand Asia Limited **A146**

95. GUYLINE(ASIA)LIMITED **A009, A010**

96. GRINM/National Analysis & Testing Ctr. for Nonferrous Metals & Electronic Materials **B148**

97. Gentech Systems (Wuhan) Ltd. **B106A**

98. Hach Company **A125, A126**

99. Hellma (Asia Pacific) Pte Ltd **B002**

100. Heraeus Noblelight (Shenyang) Ltd. **B126**

101. HORIBA (GROUP) **A049**
A063, A064

102. Institute of Geophysical and Geochemical Exploration under China Academy of Geosciences **B004**

103. Intermass Fischer-Asia Pte Ltd **A102**

104. JEOL LTD. **A155, A156**

105. Jiangsu Jiangfen Electroanalytical Instrument Co., Ltd. **B140**

106. Jiangsu Hanbon Science & Technology Co., Ltd. **A130**

107. Jinan Applied Chemical Industry Science and Technology Development Corp Ltd. **B001**

108. Jinan Testing Equipment Import and Export Corporation **B039**

109. J&J INDUSTRIES **A128**

110. John Cantle Scientific Ltd/SPEX CertiPrep Inc. **A144**

111. Jtochem **B070**

112. Kent Technology Co. Ltd **A127**

113. KRUSS GmbH **A035**

114. Kunshan Ultrasonic Instrument CO., LTD **A012**

115. Kyoto Electronics Manufacturing Co., Ltd. **1015, 1016**

116. KYKY TECHNOLOGY DEVELOPMENT LTD. **B076, B077**

117. Laurel Industrial Company, Inc. **B103**

118. Leeman Labs Inc. **B011, B012**

119. LONGKOU CITY XIANKE INSTRUMENT CO/YANTAL CITY XIANKE INSTRUMENT CO. ... **B046**

120. LONGZIDA Co. Ltd. **B107**

121. LWL DEVELOPMENT LTD. **A004, A005**

122. Measurement Analysis China International Labmate **B147**

123. MECASYS CO.,LTO.CHINA **B141**

124. Merck (Shanghai) Trading Co. ,Ltd. **A059, A060**

125. Metrohm China Ltd. **1022, 1026**

126. Mettler-Toledo Instruments(Shanghai)Co., Ltd **1030, 1032**

127. Micro-Tech Scientific, Inc., ... **1006**

128. Millipore China Limited **A031**

129. Nanning WeiMaLong Chromatograply Tech. Co., Ltd. **B106**

130. NETZSCH Gerätebau GmbH **A025**

131. Newford Tech & Trade, Ltd. **A159, A160**

132. NINGBO SCIENTZ BIOTECHNOLGY CO.LTD. **A011**

133. Oxford Instruments **A109**

134. PANalytical B.V. (formerly Philips Analytical B. V.) **A073, A074**

135. PerkinElmer Instrument (shanghai) Co, Ltd **A051, A052, A053, A054, A061, A062**

136. Precisa Internal(Shanghai)CO.,LTD **B062**

137. Process-China **B003**

138. Rakon Technologies **A149, A150**

139. Resonance Instrument Ltd. UK **B017**

140. RIGAKU INTERNATIONAL CORPORTION **A029, A030**

141. SANWA TSUSHO CO., LTD. **B084**

142. Saybolt Netrology & Instrumentation BV **B128**

143.Schmidt BioMedTech (HK) Ltd. **A163**

144. Scientific Instrument Software Company (SISC) **A165**

145. Scitop Instrument Company **B133**

146. Seiko Instruments Inc. **A033, A034**

147. Shanghai ANPEL Scientific Instrument Co., Ltd **A001**

148. Shanghai Forever Scientific Development Co.,Ltd. **A158**

149. SHANGHAI HAI XIN CHROMATOGRAPHIC INSTRUMENTS CO., LTD **A135**

150. Shanghai JingHua Insterment Co.,Ltd **B101, B102**

151. Shanghai Kechuang Chromatograph Instrument Co.,Ltd **B036**

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154. Shanghai Precision & Scientific Instrument Co., Ltd. **B086, B087, B088, B089**

155. Shanghai Sineo Microwave Chemical Technology Co., Ltd. **B085**

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157. Shanghai Sunyear Scientific Inc. **A006**

158. Shanghai Tai-hsiung Engineering Equipment Co., Ltd. **A017**

159. Shanghai Tanon Science & Technology Co,. Ltd. **B123**

160. Shanghai Wufeng Scientific Instruments Co. **A136**

161. Shanghai Yanxin Trading Co.Ltd **B027**

162. Shanghai YIHENG Technical Co., Ltd. **B005**

163. Shinetek Instruments(Beijing)Co.,Ltd. **B056, B057**

164. SHIMADZU CORPORATION **1001, 1002, 1003, 1004, 1017, 1018, 1019, 1020, 1021, 1023, 1024, 1027, 1028**

165. SIBER HEGNER CHINA **A108**

166. Soft Imaging System GmbH **A157**

167. SOUTHEAST CHINA SCIENTIFIC EQUIPMENT & SERVICE CO. **A147**

168. SPECTRO Analytical Instrumenets GmbH **A103, A104**

169. STATE TEST CENTER OF FERROUS MATERIALS **B110, B111**

170. SUNTEK SCIENCE INSTRUMENT CO., LTD. **A002**

171. SHANGHAI TAUTO BIOTECH CO.,LTD. **B0351**

172. TAIHUA INFORMATION TECHNOLOGY.CO.LTD **B021**

173. Techcomp LTD. **A068, A069, A070, A071, A072**

174. Shanghai Techcomp Instrument LTD. **A036, A037, A038, A039, A040, A041, A042, A043, A044, A045**

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176. Guangzhou Dexiang Technology Ltd. **B019**

177. TELEH ELECTRONICS TECH Co.,Ltd. **B078, B079, B096, B097**

178. THE GREAT EUR-ASIA SCI&DEVELOPMENT CO.,LTD **A026**

179. Thermo Electron Corporation **A081, A082, A083, A084, A085, A092, A093, A094, A095, A096**

180. Tianjin Autoscience Instrument Co. ltd. **B113**

181. TIANJIN HENGAO TECHNOLOGY DEVELOPMENT CO.,LTD **B116**

182. TOKYO RIKAKIKAI CO., LTD **B073**

183. Unimicro (Shanghai) Technologies Co., Ltd. **A021, A022, A023**

184. Universal Analytical & Testing Instruments Ltd. **A119, A120**

185. UNIVERSAL CO., LTD **A131, A132**

186. USF-CST Ltd. **B134**

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188. WANHE SCIENTIFIC INSTRUMENT& EQUIPMENT(SHENZHEN) CO., LTD **1025, 1029**

189. Waters China Limited **A113, A114**

190. WenLing FuLi Analytical Instrumet Co., LTD. **B112**

191. WESTERN QINGHUA INSTRUMENT INSTITUTE **B145**

192. W.R. Grace **B071**

193. www.instrument.com.cn **B146**

194. XIAMEN ASTAR TECHNOLOGY DEVELOPMENT CO., LTD. **A166**

195. Xing Tuo of Microwave Decomposition Technology Company Ltd. **B016**

196. XUTEMP TEMPTECH CO., LTD. **B061**

197. Yixing Jingke Optical Instrument CO., Ltd. **A013**

198. Twinson Int'l Ltd., ... **A027, A028**

199. Zheng An (Tianjin) Scientific Instruments & Equipments Co., LTD **A019**

200. ZhongYa Gas Equipment Institute **A015**

201. JAIMA (JAPAN ANALYTICAL INSTRUMENTS MANUFACTURERS ASSOCIATION) **B043**

202. Unico (Shanghai) Instrument Co.,Ltd.(Solely U.S. Funded) **B034, B035**

203. Beijing Chuangxintongheng Science & Technology Co.,Ltd **A020**

204. MODERN SCIENTIFIC INSTRUMENTS .....

205. CHEMICAL INDUSTRY PRESS .....

206. Chinmax Medical Systems,Inc. **A106**

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WELCOME TO

BCEIA 2005

THE ELEVENTH BEIJING CONFERENCE AND EXHIBITION ON INSTRUMENTAL ANALYSIS

WILL BE HELD
IN OCT. 2005
IN BEIJING

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