BCEIA 2001

THE NINTH BEIJING CONFERENCE AND EXHIBITION ON INSTRUMENTAL ANALYSIS

PROGRAM

Oct. 17 - Oct. 20 2001

Beijing

BCEIA Organizing Committee
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FOREWORD

The 9th Beijing Conference and Exhibition on Instrumental Analysis(BCEIA 2001), 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 9th BCEIA, over 500 scholars and experts from over 20 countries and regions will conduct academic exchanges on latest research achievement and will publish 496 papers. At the same times over 160 companies and manufacturers from 16 countries and regions, over 260 booths, will exhibit their latest develop products. During the exhibition technical seminars and trade negotiations will be held. About more than 18,000 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 2001 a great success.

The Tenth BCEIA (BCEIA 2003) will be held in October 2003 in Beijing. We hope you and more participants will be present.

We wish BCEIA 2001 a great success!

Let's meet again in 2003 in Beijing!

ORGANIZATION

Honorary President

Prof. Jiaxi LU	Vice Chairman, The Chinese People's Political Consultative Conference

President

Mr. Xueyong LI	Vice Minister, The Ministry of Science and Technology of China

Organizing Committee

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Vice Chairman

Mr. Shunchang WANG	Vice President of China Association for Instrumental Analysis
Prof. Xiguan MA	Standing Member of China Association for Instrumental Analysis

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Vice-Chairman

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Prof. Zhengkai WU*	Chinese Spectroscopy Society

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Prof. Zhanxia ZHANG	Chinese Spectroscopy Society
Prof. Peichang LU*	Chinese Society of Chromatography
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. Hengqiang YE*	Institute of Metal, CAS
Prof. Mingxiao DING	Peking University

***Academician of Chinese Academy of Sciences (CAS)**

Program Committee Office

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Depputy Head	Prof. Guangzheng MENG	Spectroscopy
	Prof. Yukui ZHANG	Chromatography
	Prof. Qing'an MENG	Magnetic Resonance
	Prof. Yuexia ZHANG	Electroanalytical Chemistry
	Prof. Zhuoran LIN	Electron Microscopy

AGENDA OF SESSIONS ELECTRON MICROSCOPY

Date/ Time		Lecturing Hall, Meeting Hall, Friendship Hotel		
Oct.17 (Wed.)	a.m.	Opening Speech: Dunyi LIU BCEIA 2001 General Plenary Session Presiding: Benli HUANG and Kurt WÜTHRICH R. Graham COOKS and T. NAKAGAWA F1, B1, D169, E1		
	p.m.	Visiting Exhibition		
Oct.18 (Thu.)		Room A1 (Room 101, Meeting Hall)	Room A2 (Room 201, Meeting Hall)	Corridor outside Room A1
	a.m.	Presiding: Elmar ZEITLER & Hengqiang YE A77, A111, A13, A47, A61, A15, A83, A25, A43	Presiding: Y. FUJIYOSHI & Senfang SUI J.DUBOCHET & Jingqiang ZHANG A1, A3, A5, A9, A7, A11	
	p.m.	Presiding: D.J. SMITH & Jing ZHU A107, A59, A17, A89, A87, A109		Poster Session: A39, A41, A45, A49, A51, A53, A67, A69, A71, A73, A91, A93, A95, A97, A99, A101, A103, A105, A115, A117, A119, A121, A125, A127
Oct.19 (Fri.)	a.m.	Presiding: S.J. PENNYCOOK & Shulin WEN A85, A19, A21, A113, A29, A31, A23, A33, A35, A37		
	p.m.	Presiding: L. MARKS & Fanghua LI A79, A81, A57, A27, A55, A63, A65, A123		
Oct.20 (Sat.)		BCEIA 2001 Sightseeing in BEIJING		

AGENDA OF SESSIONS MASS SPECTROMETRY

Date/ Time		Lecturing Hall, Meeting Hall, Friendship Hotel		
Oct.17 (Wed.)	a.m.	Opening Speech: Dunyi LIU BCEIA 2001 General Plenary Session Presiding: Benli HUANG and Kurt WÜTHRICH R. Graham COOKS and T. NAKAGAWA F1, B1, D169, E1		
	p.m.	Visiting Exhibition		
Oct.18 (Thu.)		Room B1 (Friendship Palace No.2)	Room B2 (Friendship Palace No.3)	Corridor outside Room B1, B2
	a.m.	Presiding: Ludolf SCHULTZ & Shuying LIU Yongquan LU & Valeri RAZNIKOV B41, B11, B7, B39, B109, B69, B163		
	p.m.	Presiding: Jinying LI & Magda CLAEYS Anzov I.Mikaia & Xiaohong QIAN B21, B153, B57, B13, B59, B29, B17, B5		
Oct.19 (Fri.)	a.m.	Presiding: Annemie ADRIANS & Xiande LIU; J.E.CANTLE & Dongfa GUO B77, B63, B139, B105, B135, B73, B67, B83, B85, B71	Presiding: Pengyuan YANG & Fuxiang WU Shida SHEN & J.C.JAIN B145, B151, B159, B55, B79, B65, B123, B93, B161	Poster Session: B15, B19, B23, B25, B27, B31, B33, B35, B37, B45, B47, B49, B51, B53, B61, B63, B81, B87, B91, B95, B97, B99, B101, B103, B107, B111, B113, B115, B117, B119, B121, B125, B127, B129, B131, B133, B137, B141, B143, B147, B149, B155, B157
	p.m.			
Oct.20 (Sat.)		BCEIA 2001 Sightseeing in BEIJING		

AGENDA OF SESSIONS SPECTROSCOPY

Date/ Time		Lecturing Hall, Meeting Hall, Friendship Hotel			
Oct.17 (Wed.)	a.m.	Opening Speech: Dunyi LIU BCEIA 2001 General Plenary Session Presiding: Benli HUANG and Kurt WÜTHRICH R. Graham COOKS and T. NAKAGAWA F1, B1, D169, E1			
	p.m.	Visiting Exhibition			
Oct.18 (Thu.)		Room C1 (Meeting Hall 104)	Room C2 (Meeting Hall 105)	Room C3 (Meeting Hall 106)	Poster Session
	a.m.	Presiding: Benli HUANG R. McCRINDLE W. SCHRADER C1, C3, C7 C47, C23, C49	Presiding: Jinguang WU A.A.CHRISTY Bin ZHAO C89, C99, C115 C97, C91, C93	Presiding: Wanyun MA B.K.GIOD Guangzu MA C153, C155, C157, C165, C167	Date: 2001-10-19 a.m. Site: Corridor on the 2nd floor C43, C69, C71, C73, C75, C77, C79, C81, C83, C85, C87, C119, C123, C127, C129, C135, C137, C143, C145, C161, C163, C169, C171, C181, C183, C185
	p.m.	Presiding: Zheming NI Sergio CAROLI V.KARANASSIOS C19, C21, C57 C25, C51, C59, C61	Presiding; Xiaozhen YANG Weijun JIN Ying SUN C101, C95, C103 C105, C107, C113, C121		
Oct.19 (Fri.)	a.m.	Presiding: Qinhan JIN Alfred GOLLOCH Xiuping YAN C53, C35, C31, C179, C65, C67, C93	Presiding: Yu ZHENG Jing CHEN Zhenhua XU C109, C111, C147, C149, C151, C177		
	p.m.	Presiding: Xiaoru WANG & J.D.HWANG & A. SANZ-MEDEL C27, C29, C33, C37, C63			
Oct.20 (Sat.)		BCEIA 2001 Sightseeing in BEIJING			

AGENDA OF SESSIONS CHROMATOGRAPHY

<table>
<tr><td>Date/ Time</td><td colspan="5">Lecturing Hall, Meeting Hall, Friendship Hotel</td></tr>
<tr><td rowspan="2">Oct.17
(Wed.)</td><td>a.m.</td><td colspan="4">Opening Speech: Dunyi LIU
BCEIA 2001 General Plenary Session
Presiding: Benli HUANG and Kurt WÜTHRICH
R. Graham COOKS and T. NAKAGAWA
F1, B1, D169, E1</td></tr>
<tr><td>p.m.</td><td colspan="4">Visiting Exhibition</td></tr>
<tr><td rowspan="5">Oct.18
(Thu.)</td><td></td><td>Room D1
(Meeting Hall 102)</td><td>Room D2
(Meeting Hall 103)</td><td>Room D3
(Meeting Room)</td><td>Poster Session</td></tr>
<tr><td>a.m.</td><td></td><td></td><td>Presiding:
AYER & Peichang LU, & A.A.KETTRUP & Yukui ZHANG
D181, D175, D185, D25, D137, D109, D157, D39</td><td rowspan="4">Date:
10-19 p.m.
Site:
Corridor on the 2nd floor
D3, D5, D7, D9, D11, D13, D19, D29, D33, D35, D51, D55, D57, D61, D63, D65, D77, D81, D85, D89, D91, D93, D95, D99, D101, D103, D107, D115, D117, D121, D131, D141, D145, D149, D159, D163, D189, D191, D193, D199, D203, D205, D211</td></tr>
<tr><td>p.m.</td><td></td><td></td><td>Presiding:
Christopher P.PALMER & Yoshinobu BABA & Chao YAN & Klaus Albert
D113, D183, D215, D21, D23, D53, D45, D111, D209, D135</td></tr>
<tr><td rowspan="2">Oct.19
(Fri.)</td><td>a.m.</td><td>Presiding:
T.NAKAGAWA & Binjiu XU & Toshiyuki HOBO & Y.S.FENG
D167, D179, D127, D49, D165, D153, D173, D123, D15, D119, D43, D161, D67, D207</td><td>Presiding:
Jason ELLIS & Yi CHEN & Yafeng GUAN & R.STEVENSON
D125, D47, D71, D1, D171, D17, D75, D27, D129, D133, D87, D59, D69, D201, D195</td><td></td></tr>
<tr><td>p.m.</td><td></td><td></td><td></td></tr>
<tr><td>Oct.20
(Sat.)</td><td colspan="4">BCEIA 2001 Sightseeing in BEIJING</td></tr>
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AGENDA OF SESSIONS MAGNETIC RESONANCE

Date/ Time		Lecturing Hall, Meeting Hall, Friendship Hotel	
Oct.17 (Wed.)	a.m.	Opening Speech: Dunyi LIU BCEIA 2001 General Plenary Session Presiding: Benli HUANG and Kurt WÜTHRICH R. Graham COOKS and T. NAKAGAWA F1, B1, D169, E1	
	p.m.	Visiting Exhibition	
Oct.18 (Thu.)		Room E1 (Friendship Palace No.1)	Corridor on 2nd floor of the Friendship Palace
	a.m.	Chaohui YE 8:35 E3 9:10 E5 9:45-10:00 Tea break E29, E7, E11, E13, E00* (*Late arrival)	
	p. m.	Steve C. F. AU-YEUNG 1:30 E19 2:05 E23 2:40-3:00 Tea beak	
			3:00-5:00 p.m. Poster Session E53, E55, E57, E59, E61, E63, E65, E67, E69, E71, E73, E75, E77, E79, E81, E83, E85, E87, E89, E91, E93, E95, E97, E99, E101, E103, E105, E107, E109, E111, E113, E115, E117, E119, E121, E123, E125, E127, E129
Oct.19 (Fri.)	a.m.	Maili LIU 8:30 E25 9:05 E27 9:40-10:00 Tea break E15, E31, E33, E35, E37	
	p.m.	Fengkui PEI 1:30 E39 2:05 E43 2:40-3:00 Tea beak E41, E45, E47, E49, E51	
Oct.20 (Sat.)	BCEIA 2001 Sightseeing in BEIJING		

AGENDA OF SESSIONS ELECTROANALYTICAL CHEMISTRY

Date/ Time		Lecturing Hall, Meeting Hall, Friendship Hotel	
Oct.17 (Wed.)	a.m.	Opening Speech: Dunyi LIU BCEIA'2001 General Plenary Session Presiding: Benli HUANG and Kurt WUTHRICH R. Graham COOKS and T. NAKAGAWA F1, B1, D169, E1	
	p.m.	Visiting Exhibition	
Oct.18 (Thu.)		Room F (Meeting Hall 202)	Corridor on 2nd floor of the
	a.m.	A speech: Erkang WANG KEYNOTE LECTURES Presiding: M. SENDA & Jiaqi DENG P. ZUMAN & Ruqin YU A. BOND & Jiannong YE T. OSA & Hongyuan CHEN F3, F5, F7, F9, F11, F13, F15, F17	Meeting Hall
	p.m.	KEYNOTE LECTURES Presiding: M.E. MEYERHOFF & Shaojun DONG T.TAKAMURA & Shengshui HU F19, F21, F23, F25, F27, F29 ORAL SESSION Presiding: G.D. CHRISTIAN & Tuzhi PENG K. AOKI & Kui JIAO F31, F33, F57, F59, F61	Poster Session: F35, F37, F39, F41, F43, F45, F47, F49, F51, F53, F55, F63, F65, F67, F69, F71, F73, F75, F77, F79, F99, F101, F103, F105, F107, F109, F111, F113, F115, F117, F119
Oct.19 (Fri.)	a.m.	ORAL SESSION Presiding: G. BIDAN & Jyn Myng ZEN K. TAKAMURA & Xiangqin LIN H.H. GIRAULT & Huangxian JU K. HAYASHI & Kwok Yin WONG F81, F83, F85, F87, F89, F91, F93, F95, F97, F121, F123, F125	Poster Session: F133, F135, F137, F139, F141, F143, F145, F147, F149, F161, F163, F165, F167, F169, F171, F173, F175, F177, F195, F197, F199, F201, F203, F205, F207, F209, F211, F213, F215, F217, F219, F221, F223, F225, F227
	p.m.	ORAL SESSION Presiding: Lo GORTON & Xiurong YANG Z. OGUMI & D. LEECH R. GUILARD & Naifei HU J. M. KAUFFMANN & Tianyao XIE J. SUZUKI & Zhuobin YUAN F127, F129, F131, F151, F153, F155, F157, F159, F179, F181, F183, F185, F187, F189, F191, F193	
Oct.20 (Sat.)		BCEIA 2001 Sightseeing in BEIJING	

SCHEDULE OF GENERAL PLENARY SESSION

2001-10-17 a.m. (Wednesday)

Site: **Friendship Hall**

Presiding: **Benli HUANG and Kurt WÜTHRICH**

8:30		Opening Speech: Dunyi LIU
8:40	**F1**	Nanoelectrochemistry on gold particles and their derivatives, the assessment of the conductivity of molecular wires and direct electrochemistry Erkang WANG
9:20	**B1**	Miniature and high efficiency analytical instrumentation: mass spectrometry R. Graham COOKS, Ouyang ZHENG, W. Andy. TAO, Garth E. PATTERSON
10:00-10:20	**Recess**	

Presiding: **R. Graham COOKS and T. NAKAGAWA**

10:20	**D169**	Microanalysis of chiralselective drug/protein interactions T. NAKAGAWA
11:00	**E1**	NMR spectroscopy, structural biology and structural genomics Kurt WÜTHRICH

SCHEDULE OF SESSIONS
ELECTRON MICROSCOPY

BIOLOGY SESSION

2001-10-18 a.m. (Thursday)
Site: Room A2 (Meeting Hall 201)
Presiding: Y. FUJIYOSHI & Senfang SUI

8:30	A1	Cryo-electron microscopy of vitreous sections Jacques DUBOCHET (invited), Ashraf AL-AMOUDI, Nathalie SARYORI BLANC, Amelie LEFORESTIER, and Daniel STUDER
9:15	A3	3-D structure of RNA genome of Chinese sacbrood bee virus Xiying LU (invited), Yifeng YANG, Z.H. ZHOU, Donghua CHEN and Jingqiang ZHANG
9:45--9:55		**Recess**

Presiding: J.DUBOCHET & Jingqiang ZHANG

9:55	A5	Structure and function of a water channel analysed by electron crystallography Yoshinori FUJIYOSHI (invited)
10:40	A9	Visualization of RHDV particles packaging sub-genomic RNAs by electron cryomicroscopy Dong ZHENG and Wei XU
11:10	A7	Two-dimensional crystallization of a small heat shock protein HSP 16.3 on lipid lipid monol studied by electron microscopy Senfang SUI, Yong CHEN, Zengyi CHANG
11:40	A11	Ultrastructural study of rickettsia-like organism infecting the Chinese mitten crab eriocheir sinensis Wen WANG, Zhifeng GU, Ningning ZHU, Zhengrong LI and Kaihe DU

NON-BIOLOGY SESSION

Welcome to
Symposium on
Frontiers of Electron Microscopy in Materials Science
incorporated in BCEIA 2001

THE SYMPOSIUM

Under the Electron Microscopy Branch of BCEIA 2001, there is a Symposium entitled "*Frontiers of Electron 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-U.S.A. Joint Symposium on Frontiers of Electron Microscopy in Materials Science" by Prof. H. Q. Ye (IMR,CAS, China) and Dr. Y. M. Zhu (Brookhaven N.L., U.S.A.). 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 developing the advanced microscopy, investigating "hot spot" materials, including nanomaterials, biomaterials, high-Tc superconductor etc., and studying microstructure and defects in alloys and ceramics.

Symposium on
Frontiers of Electron Microscopy in Materials Science
Incorporated in BCEIA 2001

Nanomaterials and Related Materials

2001-10-18 a.m. (Thursday)
Site: Room A1(Room 101, Meeting Hall)
Presiding: Elmar ZEITLER

8:30 **A77** Atomic-scale characterization of semiconductor heterostructures
D. J. SMITH (Invited)

8:55 **A111** Growth, structure and functionality of semiconductor nanocrystals through Z-contrast microscopy
S. J. PENNYCOOK (Invited), A. KADAVANICH, A.R. LUPINI, S.J. ROSENTHAL, R.C. PUETTER, A. YAHIL, L.G. WANG, A. FRANCESCHETTI and S.T. PANTELIDES

9:20 **A13** Effects of interfaces on properties of nanostructured materials
Manling SUI (Invited)

9:45 **A47** Synthesis and characterization of TiO_x nanotubes
G. H. DU, Q. CHEN, Z. Y. YUAN and L. -M. PENG

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

Presiding: Hengqiang YE

10:15 **A61** In-situ growth of single-walled BN nanostructures
L. D. MARKS (Invited)

10:40 **A15** Growth of compound single-and multi-walled carbon nanotubes
L. –M. PENG (Invited), Z. J. SHI, Z. L. ZHANG, L. OUYANG, Z. N. GU, Z. Q. XUE and Q. D. WU

11:05 **A83** Phonon scattering in quantitative high-resolution electron microscopy
Zhong Lin WANG(Invited)

11:30 **A25** $PbTiO_3$ nanotube: observation by electron microscopy
Jianmin ZHU, Qi LI, GUOBIN Ma, Mingmei WU, Xinhua ZHU, Zhiguo LIU and Naibei MING

11:45 **A43** TEM study of polyaniline chiral nanotubes
Long LI, Yuqing ZHOU, Yongsheng YANG, Meixiang WAN and Jianqi LI

Nanomaterilas and Related Materials

2001-10-18 p.m. (Thursday)
Site: Room A1 (Room 101, Meeting Hall)
Presiding: D.J. SMITH

1:30 **A107** Study of silicon-based nanowires and CN_x film by spatially resolved EELS
Jing ZHU (Invited), Odile STEPHAN, Shangpeng GAO, Susana TRASOBARES, Yingjiu ZHANG, Christian COLLIEX

1:55 **A59** Statics and dynamics of electrically active nanostructures via in-situ TEM
Xiwei LIN and Vinayak P. DRAVID (Invited)

2:20 **A17** Electron holography for Characterization of electrostatic and magnetic nano-structures
Molly Mccartney (Invited)

2:45 **A89** HREM investigation of nano-Au prepared by solution technique
C. H. LEI, X. B. ZHANG, H. D. LIANG, J. Van LANDUYT, G. Van TENDELOO, F. AMDAMS

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

Presiding: Jing ZHU

3:15 **A87** Studies on growth mechanism of nano-onion-like fullerenes in arc discharge
Binqshe XU (Invited), Xiaoqin YAN, Yinghui WEI, Sishen XIE, Hideki ICHINOSE

3:40 **A109** EELS analysis of ceramic boundaries
Hui GU (Invited)

POSTER SESSION

2001-10-18 (Thursday)
Time: 4:05-5:00 p.m.
Site: Corridor outside Room A1(Room 101, Meeting Hall)

A39 Effects of H_2-pretreatment on the surface and bulk compositions of raney-Ni Parent alloys
Hao LEI and Xinhe BAO

A41 Variations in the melting processes of size-selected atomic nanoclusters
Shijin ZHAO, Shaoqing WANG, Duoxing LI and Hengqiang YE

A45 Formation of amorphous on Pb/Al interface
Lihua ZHANG, Manling SUI, Lei ZHANG, Bo WU and Douxing LI

A49 Investigation on the structure near the interface of explosive composite plate
Ke WANG, Binqshe XU, Lanqing HU and Yuan HUANG

A51 A study on junction boundary between steel plates produced by explosive welding
Lanqing HU, Yinghui WEI, Bingshe XU and Yuan HUANG

A53 Microstructure studies on epitaxial $La_{2/3}Sr_{1/3}MnO_3$ and Ag-doped $La_{2/3}Sr_{1/3}MnO_3$ films
Qian ZHAN, Lianlong He, Douxing LI, Jie LI, and Shengyong XU

A67 Application of dynamic electron diffraction expression for non-periodic structure
Quixiang LIU, Qibin YANG and Yuanming WANG

A69 The investigation of boron atom positions in $(Y_{0.6}Ca_{0.4})(SrBa)(Cu_{2.5}B_{0.5})O_{7-d}$ by electron diffraction and HREM
Huaibin WANG, Hua JIANG, Fanghua LI and Dong TANG

A71 Transmission electron microscopic study of CVD-diamond grown on Pt substrate
Guofu ZHOU, Yoshizo TAKAI and Ryuichi SHIMIZU

A73 Image reconstruction from electron diffraction pattern using iterative algorithms
Qing CHEN, U. WEIERSTALL, J.C.H. SPENCE and R.R. PANEPUCCI

A91 The HRTEM observation of carbon nanotubes from amorphous carbon by plasma
Xuguang LIU, Husheng JIA and Binqshe XU

A93 A study of interface between the α_2 and β_2 phase in a Ti-Al alloy
Hong ZHANG, Lianlong HE, Hengqiang YE, Seung Jin Yang and Soo Woo Nam

A95 Segregation of W to β_2/γ interface in a TiAl alloy by nano-beam analysis
Rong YU, Lianlong HE and Hengqiang YE

A97 The zirconium oxide nanorods encapsulated in boron nitride nanotube
Zhiqi SHEN, Lianlong HE, Yueying FAN, Huiming CHENG, Douxing LI and Hengqiang YE

A99 Microstructure investigation of $Fe/Al_2O_3/Fe$ tunneling junction
Ke YANG, Jianmin ZHU, Guobin MA, Shunhua ZHOU, Zhiqiang CHEN, Yue CHEN, Youwei DU and Qi LI

A101 Monodispersed SnO_2 nanocrystaline, gas sensing property and microstructure
Yue CHEN, Jianmin ZHU, Guobin MA, Feng LI, Zhiguo LIU, Zhiqiang CHEN, Ke YANG and Qi LI

A103 Dislocation of grain boundary dislocations in $SrBi_2Ta_2O_9$ ferroelectric thin films
Xinhua ZHU, Jianmin ZHU, Shunhua ZHOU, Qi LI, Zhiguo LIU and Naiben MING

A105 The structure of M_2C in high Co-Ni alloy steel
Zhengfei HU and Xingfang WU

A115 Electron beam irradiation-induced nano-scale amorphization of Al nearby the interface in Al particle encapsulated by Al_2O_3 shell
Zhiqing YANG, Lianlong HE and Hengqiang YE

A117 Observation of crack surface features in LSAT crystal using ESEM
Jingzhong XIAO, Manjun SHAO, Zhuchuan LI, Yin HANG and Shaotang YIN

A119 Scanning electron microscopy and infrared spectroscopy studies of a-Si:H films
Zhiping LI

A121 Plane magnetic lenses with moving axis as "moving objective lenses" in SEM for investigation of large semiconductor plates
Rafael USUPOV, Valery ZHUKOV, Vladimir GELEVER, Michael NESTEROV and Dmitry HANSEVAROV

A125 Atomic force microscopy study of microbiologically influenced corrosion of aluminum alloys
Songmei LI, Jianhua LIU and Hao WU

A127 Atomic force microscopy study of sulfate-reducing bacteria influenced corrosion of medium carbon steel
Jianhua LIU, Songmei LI and Fang LIU

Structures and Defects of Materials

2001-10-19 a.m. (Friday)
Site: Room A1 (Room 101, Meeting Hall)
Presiding: S.J. PENNYCOOK

8:30 **A85** Modulation of nitron vacancy in GaN nano-particles
Ze ZHANG (Invited), Hui LI and Haiping SUN

8:55 **A19** Measurements of change distribution in high-Tc superconductors by parallel recording of dark-field images
Yimei ZHU(Invited),

9:20 **A21** Microstructure features of biominerals in human body
Shulin WEN (Invited)

9:45 **A113** Microanalytical study on the hydrogenated Zr-Cu-Ni-Al-Y amorphous alloys
Rongming WANG, Dan ELIEZER, Uwe KÖSTER

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

Presiding: Shulin WEN

10:15 **A29** Function of $Sr_{0.3}Ca_{1.7}CuO_3$ phase on the formation of 2223 phase in LFZ Bi-Sr-Ca-Cu-O superconducting fiber
Li YANG, F.M. COSTA, A.B. LOPES, R.F. SILVA and J.M. VIEIRA

10:30 **A31** $YBa_2Cu_3O_{7-y}$ and $YbBa_2Cu_3O_{7-y}$ superconducting films prepared by chemical solution deposition on $SrTiO_3$ (001) substrates
X.L. MA, T. HIRAYAMA and Y. IKUHARA

10:45 **A23** Effect of hydrogen on irradiation damage
Farong WAN (Invited)

11:10 **A33** TEM observation on electroformed copper upon ultra-high strain rate deformation
Ailing FAN, Hongye GAO, Xiaoou SHAN, and Wenhuai TIAN

11;25 **A35** Study on interfacial microstructures and interfacial fracture of low-pressure plasma sprayed coatings on metal substrates
Dongfei LI, Beiling SHAO, Ansheng LIU, Sheng AN and Qifang ZHU

11:40 **A37** Investigation of deformation structures of clinopyroxene from dabieshan, China
Dawei MENG, Xiuling WU, Yujing HAN and Weiran YANG

Advanced Microscopy

2001-10-19 p.m. (Friday)
Site: Room A1 (Room 101, Meeting Hall)
Presiding: L. MARKS

1:30 **A79** Dislocation core structure determination in SiGe/Si at atomic level
F. H. LI (Invited), D. WANG, W. Z. HE, H. CHEN, J. ZOU, H. JIANG, K. KAWASAKI and T. OIKAWA

1:55 **A81** Sub-angstron transmission electron microscopy for materials science
Michael A. O'KEEFE (invited), E. C. NELSON and Ulrich DAHMEN

2:20 **A57** Nano-structure characterization with quantitative electron diffraction and microscopy
J. M. ZUO (Invited), B. Q. LI, J. TAO and Y. F. SHI

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

Presiding: Fanghua LI

3:15 **A27** High density dislocations in titanium dioxide nanocrystals
Guobin MA, Jianmin ZHU, Qi LI, Zhiguo LIU and Naiben MING

3:30 **A55** TEM study on grain boundaries in AlN ceramics with additives of Y_2O_3, La_2O_3 and Sm_2O_3
Xiao-Jing WU, Y. IKUHARA, R. TERAO, J. TATAMI and K. KOMEYA

3:45 **A63** Marking the double-tilt operation easier
Wei LIANG, Xingguo ZHAO and Lu LU

4:00 **A65** Determination of eccentricity and roundness of MBS core by TEM and image analysis
Zhenqmin LI, Xingzhong XU, Jinghe YANG, Weijun YU, Xiuling XU, Xu SU, Xiuying YUE and Rutao LIU

4:15 **A123** Next-generation SEM smoothly combining ease of use with superb functions SUPERSCAN SS-550
Ryohei KOKAWA, Masahiro OTA, Tosihiro WATANABE and Gou Yu AN

SCHEDULE OF SESSIONS
MASS SPECTROMETRY

PLENARY LECTURES

2001-10-18 a.m. (Thursday)
Site: Room B1 (Friendship Palace No.2)
Presiding: Ludolf SCHULTZ and Shuying LIU

8:20 **B41** Mass spectrometry in the structural study of flavonoids and related plant natural products
Magda CLAEYS, Filip CUYCKENS, Hilde VAN DEN HEUVEL, Richard K. CIMANGA, Luc PIETERS and Arnold VLIETINCK

8:50 **B11** Metal ions adducts in the structural analysis of saponins by electrospray ionization with multistage mass spectrometry
Meng CUI, Fengrui SONG, Zhiqiang LIU, Shuying LIU

9:20 **B7** Data reduction and evaluation in high resolution time-of-flight mass spectrometry
Valeri RAZNIKOV, Alexander PIKHTELEV, Alexander DODONOV, Marina RAZNIKOVA

9:50 **B39** Mass spectrometric and theoretical studies of the atmospheric kinetics of CF_3CFHO radical reactions
Fuxiang WU and Robert W. CARR

10:20-10:30 **Recess**

Presiding: Yongquan LU & Valeri RAZNIKOV

10:30 **B109** Concentration and isotopic composition of noble gases in extraterrestrial rocks
Ludolf SCHULTZ

11:00 **B69** Molecular speciation analysis of inorganic compounds using static SIMS
Annemie ADRIAENS, Rita VAN HAM, Luc VAN VAECK and Freddy ADAMS

11:30 **B163** Mass spectrometric analysis of persistent organic pollutants: analytical issues and quali criteria
Yong-Chien LING

PLENARY LECTURES

2001-10-18 p.m. (Thursday)
Site: Room B1 (Friendship Palace No.2)
Presiding: Jinying LI & Magda CLAEYS

13:30 **B21** Modified interface of CIEF-ESIMS for proteomics
Haowei SONG, Chongfeng XU, Yunmin XU, Honghai WANG, Pengyuan YANG

14:00 **B153** Computer-assisted evaluation of the NIST/EPA/NIH mass spectral library
Anzor I. MIKAIA, Stephen E. STEIN, Damo ZHU and Vladimer G. ZAIKIN

14:30 **B57** Identification of proteins differentially expressed from BEP2D cell by 2-DE and bio-mass spectrometry
Wantao YING, Xiaohong QIAN, Kaitai ZHANG, Ling XIE, Xiaoqiong XIANG, Dechang WU

15:00 **B13** Automated de novo sequencing of protein/peptides using capillary LC and ion trap mass spectrometry
Hua LIN, Jim SHOFSTAHI, Iain MYLCHREEST and Chris BECKER

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

Presiding: Anzov I. MIKAIA & Xiaohong QIAN

15:40 **B59** High throughput MALDI/MS sample preparation for proteomics
Xiaomin SONG

16:10 **B29** A new technique of "trapping pulse" in electrospray time of flight mass spectrometry
Shida SHEN, Marketa BERKOVA and Craig WHITEHOUSE, Junlin MAO

16:40 **B17** Laser ablation MC-ICP-MS and multiple ion counting-the effect combination for geochronology
J. E. CANTLE, M HORSTWOOD, S GUILFOYLE, R PARRISH, S. NELMS

17:10 **B5** Environmental sample analysis by inductively coupled plasma mass spectrometer with low gas flow plasma
Tadashi TANIGUCHI, Susumu HASHIMOTO, Nobuhiko NISHI, Koji OKADA and Tetsuya MASUDA

ORAL SESSIONS

2.1 New Techniques in Mass Spectrometry
2.2 Organic Mass Spectrometry
2.3 Biomedical Mass Spectrometry
2.4 Inorganic Analysis, ICP-Mass Spectrometry, Secondary Ion Mass Spectrometry and Surface Analysis
2.5 Isotopic Mass Spectrometry
2.6 Mass Spectrometry Combined with Other Techniques
2.7 Application of Computer in Mass Spectrometry
2.8 On-line Mass Spectrometry

2001-10-19 a.m. (Friday)
Site: Room B1 (Friendship Palace No.2)
Presiding: Annemie ADRIANS & Xiande LIU

8:30 **B77** Application of inductively coupled plasma mass spectrometry (ICP-MS) technique in alzheimer's and heart research
Jinesh C. JAIN and Clive R NEAL

8:50 **B63** Qq-TOF mass spectrometry technology for drug metabolism studies
Vince GAO

9:10 **B139** Determination of true fractional calcium absorption using TIMS calcium stable isotope technique
Xuexian HE, Dunyi LIU, Warren T.K. LEE, Weifeng LU, Ji JIANG, Chun YANG

9:30 **B105** The application of sensitive high resolution ion microprobe (SHRIMP) analysis to the interpretation of age of the basement rocks from the Larsemann Hills, East Hills, East Antarctica
Yanbin WANG, Dunyi LIU, I.S.Williams, Biao SONG, Liudong REN

9:50 **B135** Overview of zircon ages of eclogites from the dabie area
Ping JIAN, Dunyi LIU, Yuqi CHENG

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

Presiding: J. E. CANTLE & Dongfa GUO

10:20 **B73** MC-ICP-MS applied to the high precision SI-traceable stable isotope abundance ratio determination of boron and lead
Samuel WUNDERLI, Giuseppino FORTUNATO

10:40 **B67** Controlling background equivalent concentrations in inductively coupled plasma mass spectrometry (ICP-MS) as a means of achieving low quantification limits in real samples
Christopher TYE, Deng-yun CHEN and Ken'ichi SAKATA

11:00 **B83** Determination of isotope abundance ratio of lead in Beijing atmospheric aerosol by TOF-ICP-MS and ICP-MS
Wan WANG, Zhijian WU, Yiqiang LU, Dongfa GUO, Yuwu LI, Huimin YIN, Xiande LIU, Xiaodan TIAN, Freddy ADMAS

11:20 **B85** Determination of plutonium in the air and soil by ID-ICP-MS after chromatographic separation
Yuren JIN, Lianzhong ZHANG, Guoqing ZHOU, Junfeng BAI, Feng MA, Bin XIA, Xuhui WANG, Ling LI, Fengrong ZHU, Lixing ZANG, Shijun Han

11:40 **B71** Airborne particulate matter sampling and multi-elemental determination by inductively coupled plasma-mass spectrometry
Xinbang FENG, Angela WHARMBY and Alan HRYNYK

2001-10-19 a.m. (Friday)
Site: Room B2 (Friendship Palace No.3)
Presiding: Pengyuan YANG & Fuxiang WU

8:30 **B145** Determination of methyl tert-butyl ether (MTBE) in Chinese fuels by GC/MS and GC/FID
Feng QU, Wei CHENG and Guibin JIANG

8:50 **B151** Analysis of volatile components from reed leaves
Dongyan HOU, Ruihua HUI, Tiechun LI

9:10 **B159** Rapid protein identification and characterization by using uHPLC/ion trap MS^n mass spectrometer
Reiko KIYONAMI, Ruhan A. THAKUR

9:30 **B55** Soft ionization mass spectrometry in the monitoring the detoxification process of Fuzi
Yong WANG, Shuying LIU and Weixing SUN

9:50 **B79** New typical ionic clusters $K^+(KNO_3)_n$ and $NO_3^-(KNO_3)_m$
Lei SHI, Zhiqiang LIU and Fengri SONG, Shuying LIU

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

Presiding: Shida SHEN & Adriaens ADRIAENS

10:20 **B65** Research of pharmacokinetics and metabolize of Rh-endostatin by immunoaffinity extraction and biological mass spectrometry
Shangyi LIU, Xiaohong QIAN, Xiuwen LIU, Yun CAI, Zhongming TANG

10:40 **B123** Certification of K and Mg SI-traceable values in natural water for IMEP-9 by IDMS
Jun WANG, Motian ZHAO

11:00 **B93** Determination of rare and rare earth elements in soil and sediments by ICP-MS using $Ti(OH)_4$-$Fe(OH)_3$ coprecipitation preconcentration
Taicheng DUAN, Hangting CHEN, Xianjin ZHEN

11:20 **B161** LC/MS for drug discovery: high throughput analysis in drug metabolism and pharmacokinetic study
Zongwei CAI

POSTER SESSION

2001-10-19 p.m.
Site: Poster Hall
Presiding: Tao ZHOU & Hai LU

B15 ICAT and mass spectrometry: a breakthrough approach for quantitative proteomics
Vince GAO

B19 Determination of the elemental content in cigarettes by instrumental neutron activation analysis
E. METWALLY, A.S. Abdel-Halim

B23 The laser-TOF-mass-spectrometry for a wide range of tasks
Grigori B. KOUZNETSOV, Sergey POTESHIN, Alexandr A. SYSOEV

B25 Recent instrumentation development for mass spectrometry in Aston laboratory
Ouyang ZHENG, R. Graham COOKS

B27 Research of the drilled magnetic field
Yingge DU, Chengyu BAO, Haiyu ZHAO, Dewu WANG

B31 Charge-remote fragmentation of fatty acids in resonant electron capture
Valery VOINOV, Hilde VAN DEN HEUVEL, Magda CLAEYS

B33 Analysis of highly complex protein mixtures by an automated 2-D LC with ion trap tandem MS system
Paul SHIEH, Hua LIN, Yvonne LU, Rong-Fong SHEN, Shiaw-Lin(Billy) WU, Chris BECKER

B35 Instrument designs for the study of ion/surface collision processes
Ouyang ZHENG, Jormarie ALVAREZ, Verena GRILL, and R. Graham COOKS

B37 Double-focussing sector-field ICP-MS as a powerful tool in analytical chemistry
Song YIN

B45 Characterization of conjugated polymers by matrix assisted laser desorption/ionization time-of-flight (MALDI/TOF) mass spectrometry
Meiyu HE, Jiangtao HE, Jian PEI, Wei HUANG

B47 Characterization of poly (arylene phosphonate) cyclic oligomer by matrix-assisted laser desorption/ionization time-of-flight mass spectrometry
Yiping JI, Hongming ZHANG, Tianlu CHEN, Shuying LIU

B49 The structural study of anhydroicaritin glyco-sides using ESI-FT-ICR mass spectrometry
Dan PU, Shaoxiang XIONG, Bin XIN, Guanghui WANG

B51 Determination of PP'-DDE by GC/IDMS
Yanqiu CAO, Yaping MA, Meijuan WEN, Shouwei SUN

B53 Determination of microamount of hydrocarbon in the sulfolane lean agent by GC/MS
Huiju ZHAO

B61 Determination of change of hepatic tissue fatty acids in rabbits fed on the natural proportioning oils by GC and GC/MS
Xiaojing SHEN, Bingsen LAI, Conghui WANG, Hongmei WU, Chenggui ZHENG, Ling ZHANG and Shuqin SHUN

B81 Multi-elemental analysis of crude oils and lubricants by closed-vessel microwave digestion and inductively coupled plasma mass spectrometry determination
Xinbang FENG, Angela WHARMBY and Alan HRYNYK

B87 TOF SIMS observation of Au-S cluster ions and investigation of Au/S chemical interaction
Handong LIANG, Denyi LIU, and Freddy ADAMS

B91 Determination of trace platinum group elements in ores by glow discharge mass spectroscopy
Chaoguang PU, Rongbin JI, Shaozhe XIAO, Shouan DONG, Dingwen CHEN

B95 Elimination of polyatomic ion interferences in Nd_2O_3 and Sm_2O_3 using membrane desolvating sample introduction system in HR-ICP-MS
Dongfa GUO, Zhaohui WU, Xu ZHANG, Shuqin CAO and Jianyong CUI

B97 Determination of trace Neptunium-237 in environmental samples by ICP-MS
Yanqin JI, Jinying LI, Tao WU, Junling LIU and Shanggeng, LUO

B99 Determination of uranium isotope in soils by inductively coupled plasma mass spectrometry
Jinying LI, Yanqin JI, Junling LIU and Shanggeng LUO

B101 Determination of 15 ultra-trace rare earth elements in human whole blood by ICP-MS
Husheng LIU, Naifen WANG, Xiaoyan WANG, Quyang LI and Qing JIE

B103 Determination of uranium by isotope dilution inductively coupled plasma mass spectrometry (ID-ICP-MS)
Jinying LI, Junling LIU, Lifei ZHAO

B107 Determination of trace water in gases by atmospheric pressure ionization mass spectrometry
Zeyi ZHOU, Xiang FANG, Fangdi WU, Yonghua SHEN, Jianping LIANG

B111 Determination of Zn absolute isotopic composition by thermal ionization mass spectrometry
Motian ZHAO, Jun WANG

B113 Isotope dilution mass spectrometry-applications to CCQM key comparison studies and international measurement evaluation program (IMEP)
Kensaku OKAMOTO, Akiko TAKATSU and Kazumi INAGAKI

B115 Inductively coupled plasma mass spectrometry at the national geophysical research institute
V. BALARAM

B117 Study of isotopic tracing related with mechanism of cancer caused by carcinogenic substances — the measurement of tracing isotope ^{41}Ca with AMS method
Shan JIANG, Ming HE, Shaoyong WU, Qubo YOU, Guoji XU, Qien WANG and Shijie LIU

B119 The MDD model and the laser $^{40}Ar/^{39}Ar$ age of the Xidatan rock series, east Kunlun mountain
Wen CHEN, Bin CUI, Yan ZHANG, N. ARNAUD

B121 Some considerations in the lithium isotope standard preparation
Jinying LI, Jijun YAO, Motian ZHAO

B125 The hydrolysis and analysis of enriched lithium from electromagnetic separator
Jinying LI, Jijun YAO, Hongjing ZHANG, Junling LIU, Tao ZHOU, Lifei ZHAO

B127 Isotopic measurement of nano-gram boron by positive thermal ionization mass spectrometry based on $Cs_2BO_2^+$ ion
Chonggeng ZHANG, Yingkai XIAO, Qingzhong WANG, Yunhui WANG, Haizhen WEI, Hai LU and Aide SUN

B129 Boron separation by ion-exchange for its isotopic measurement
Qingzhong WANG, Yingkai XIAO, Yunhui WANG, Chonggeng ZHANG, Haizhen WEI

B131 Correction of inferences in the isotopic ratio determination of boron with ICP-MS
Jijun YAO, Jinying LI, Dongfa GUO

B133 Determination of lithium isotope ratio by thermal ionization mass spectrometry calibrated by standard materials
Tao ZHOU, Jinying LI, Motian ZHAO, Jun WANG

B137 Thermal ionization mass spectrometry uranium series dating technique in application of coral
Xuexian HE, Dunyi LIU, Zicheng PENG, Weiguo LIU

B141 High precision laser probe $^{40}Ar/^{39}Ar$ dating of micas on the deformed rocks from altyn fault (western China) and its tectonic implication
Wen CHEN, Bin CUI, Yongjiang LIU, Huiwen YE and Xiaohong GE

B143 Analysis of creatine, creatinine and guanidine-acetic acid in serum and urine by high performance liquid chromatography / mass spectrometry
Maw-Rong LEE, He-Hsuan HSIAO

B147 Analysis of flavonoids from leaves of acanthopanax senticosus harms by electrospray tandem mass spectrometry
Maolian CHEN, Fengrui SONG, Meng CUI, Zhiqiang LIU, Shuying LIU

B149 Component analysis of the coal tar-epoxy coatings by pyrolysis gas chromatography-mass spectrometry
Jingyi CAO, Dahai FU, Ming GUO, Feng ZHANG

B155 Many-particle simulation of ion trajectories and spectra in Fourier transform ion cyclotron resonance mass spectrometry
Makoto FUJIWARA, Yasuhide NAITO

B157 The application of computer technology in monopole mass spectrometer for accurate quantification
Gang HUANG, Xuebo LIU, Tanqiu LI, Jinlu FANG, Shengguo XU, Yong LI, Yinbo TU, Bo XU

SCHEDULE OF SESSIONS
SPECTROSCOPY

PLASMA , EMISSION AND ABSORPTION SPECTROSCOPY
2001-10-18 a.m. (Thursday)
Site: C1 (Meeting Hall 104)
Presiding: Benli HUANG, Rob McCRINDLE, W.SCHRADER

8:30 **C1** Design and performance of a novel electrolytic cell with grooved electrodes for hydride generation atomic spectrometry
Xuming GUO, Benli HUANG, Shuping LI and Yuchen HONG

9:00 **C3** Changing the paradigm of classical elemental analysis
Vassili Karanassios

9:30 **C7** Alternative calibration procedures with inductively coupled plasma-optical emission spectroscopy
Rob McCRINDLE, Ben BOTHA, Lily MARJANOVIC and
Sharon MOKGALAKA

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

10:20 **C47** Kinetic studies on the atomization mechanism in electrothermal atomic absorption spectrometry with and without chemical modifiers
Zheming NI and Xiuping YAN

10:50 **C23** What should we pay more attention to as spectrochemists in the new century
Qinhan JIN

11:20 **C49** Flow injection on-line sorption preconcentration and separation coupled with atomic (mass) spectrometry using knotted reactors for trace element (speciation) analysis
Xiuping YAN

2001-10-18 p.m. (Thursday)
Site: C1 (Meeting Hall 104)
Presiding: Zheming NI , Sergio CAROLI ,Vasilli KARANASSIOS

1:30 **C19** Certified reference materials planned and produced under the coordination of the istituto superiore di sanita
Sergio CAROLI

2:00 **C21** Speciation of arsenic in rice: a pilot study for the preparation of a certified reference material
Sergio CAROLI, Sonia D' ILIO, Giovanni FORTE, Maria ALESSANDRELLI and Raffaella CRESTI

2:30 **C57** Studies on a sequential injection renewable surface reflectance spectrophotometric system using a microchip flow cell
Jianya WANG and Zhaolun FANG

3:00 **Recess**

3:20 **C25** The determination of the platinum group elements Pt, Pd, Ir, Rh in differentmaterials A review including fire assay methods
Alfred GOLLOCH, Bin HU and Nursel GURLEYEN

3:50 C51 Calibration by the integrated method in flow injection atomic absorption analysis
Pawel KOOCIELNIAK

4:20 C59 Direct and simultaneous determination of copper, chromium, alminum and manganese in urine with multi-element graphite furnace atomic absorption spectrometry
Shang-Da HUANG and Ting-Wan LIN

4:50 C61 Mechanism of the action of palladium and palladium-magnesium nitratemodifiers used in the determination of tellurium by electrothermal atomic absorption spectrometry
Mei-Yun SHIUE and Mo-Hsiung YANG

2001-10-19 a.m. (Friday)
Site: C1 (Meeting Hall 104)
Presiding: Qinhan JIN, Alfred GOLLOCH, Xiuping YAN

8:30 C53 Recent development and trends in graphite furnace atomic absorptionspectrometry
Andrea GLOMB, Rene NOWKA and Werner SCHRADER

9:00 C35 Determining the content and distribution of trace-elements in the plant of salvia miltiorrhiza bunge by ICP-MS
Zhiyong HUANG, Guanglin HU, Zhixia ZHUANG and Xiaoru WANG

9:30 C31 Assessment on representtive sampling using single-pulse laser ablation with inductively coupled plasma mass spectroscopy
Haichen LIU, Xianglei MAO and Richard E. RUSSO

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

10:20 C179 Study on determination of iodide by microwav eplasm torch atomic emission spectrometry (MPT-AES) coupled with preconcentration vapour generation
Yanfu HUAN, Feng LIANG, Jianguang ZHOU, Hanqi ZHANG, Qinhan JIN, And Xinxin LI

10:40 C65 Continuous flow liquid membrane extraction: A novel automatic trace-enrichment technique
Jingfu LIU, Jingbo CHAO and Guibin JIANG

11:00 C67 Indirect determination of phenolic compounds by atomic absorption spectrometry
Yongsheng CAO, Jinlin ZHU, Yiwei CHEN and Rongming CHENG

11:20 C93 Direct determination of trace elements in solvent and acid using ETAAS with hot injection
Tadashi KAWAKAMI, Fumihide MIYASHITA, Masahiro TAKASAKA and Seji KOJIMA

2001-10-19 p.m. (Friday)
Site: C1 (Meeting Hall 104)
Presiding: Xiaoru WANG, J. David HWANG, Alfredo SANZ-MEDEL

1:30 C27 Trace metal speciation by GC-ICP-MS
J.David HWANG, Michael MOIR and David LEONG

1:50 C29 The changing face and scope of analytical atomic spectrometry: Fast multi –elemental Speciation in biomolecules
Alfredo SANZ-MEDEL

2:10 C33 Classification of caner patients based on ICP-AES determinations using neural Networks
Zhuoyong ZHANG, Hualan ZHOU, Sidong LIU and
Peter de B.HARRINGTON

2:30 **C37** Investigations of transient time resolved spectral analysis method and instrumentation
Jingguo YANG, Mao YE, Yuanqian HA, Jianping MENG, Hua TAN,
Shaolou HU, Xiang WANG and Qixian PENG

2:50 **C63** Speciation analysis of inorganic and organic mercury compounds by high performance liquid chromatography on-line coupled with atomic fluorescence spectrometry
Lina LING, Guibin JIANG, Jingfu LIU and Jingtian HU

FT-IR, RAMAN AND VIBRATION SPECTROSCOPY
2001-10-18 a.m. (Thursday)
Site: C2 (Meeting Hall 105)
Presiding: Jinguang WU, Alfred A. CHRISTY, Bin ZHAO

8:30 **C89** Reaction monitoring in polymer industry by infrared spectroscopy: Surface modification reactions on porous divinyl benzene polymer particles
Alfred A.CHRISTY

9:00 **C99** Study on gastric and colorectum carcinoma using FTIR spectroscopy Xiaofeng LING, Weihong LI, Shifu WENG, Yuzhuang XU, Xiaosi ZHOU and
Jinguang WU

9:30 **C115** Laser light scattering and FTIR study on the interaction between Ca^{2+} ionsand NaDC Micelles
Ying SUN, Zhanlan YANG, Li ZHANG, Shifu WENG and Jinguang WU

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

10:20 **C97** The Raman spectral studies on (W ≡ C) in multi-nuclear organometalliccarbine complexes at external high pressure
Zhenhua XU, Andreas MAYR and Lan S.BUTLER

10:50 **C91** Near-infrared analysis for industrial applications
Zhao LU and Chris PEDERSON

11:20 **C93** Quantitative studies of sugars and organic acids in orange juice by near infrared diffuse reflectance spectroscopy
Jagdish TEWARI, Alka GUPTA, Ranjana MEHROTRA and S.P.VARMA

2001-10-18 p.m. (Thursday)
Site : C2 (Meeting Hall 105)
Presiding : Xiaozhen YANG, Weijun JIN, Ying SUN

1:30 **C101** The effect of Er^{3+} on the conformation of myoglobin studies by Raman spectroscopy combining with two-dimensional
correlation technique
Bin ZHAO, Jinze XU, Weiqing XU, Yu ZHAO, Daqing ZHAO and Shiquan XI

2:00 **C95** A primarily study on the fluid inclusions using the infrared microspectrometer
Jing CHEN, Hua LEI,Feng QU and Qiling ZHANG

2:30 **C103** The simultaneous determination of multi-properties of gasoline by NIR spectroscopy combined with PLS calibration
Xu SU, Karl MOLT and Fangling LI

3:00 **Recess**

3:20 C105 Room temperature phosphorescence pH optosensor based on energytransfer
Weijun JIN, Jose Manuel COSTA-FERNANDEZ and Alfredo SANZ-MEDEL

3:50 C107 Studies on the hydrogen bond of aromatic amine by FTIR Mengxia XIE, Yuan LIU and Zhiwei DENG

4: 20 C113 Fourier transform infrared spectroscopic chracterization of human esophageal tissue: Implications for cancer diagnosis
Jiansheng WANG, Yong ZHOU, Yizhuang XU, Liming YANG,
Zhanlan YANG, Dongming CHANG, Jinsen SHI and Jinguang WU

4:50 C121 The spectroscopy and structure of four vanadium (V) complexes with Multidentate ligands
Yu ZHENG, Ruiping CHEN, Shan GAO and Shixiong LIU

2001-10-19 a.m. (Friday)
Site : C2 (Meeting Hall 105)
Presiding : Yu ZHENG, Jing CHEN, Zhenhua XU

8:30 C109 Study on an unknown complexes by gas chromatography / infrared spectrometry
Ruiping CHEN, Yu ZHENG and Qing REN

8:50 C111 FTIR study on the molecular structure variation of benzoic acid and anthranilic acid with FEL
Yong LI, Yaohui FAN, Liming YANG, Huihua LU, Shengguang LIU, Junbiao ZHU, Hongcheng GAO, Shifu WENG, Yonggui LI and Jinguang WU

9:10 C147 FTIR study on the interaction between Ca^{2+} and galactitol Yunlan SU, Limin YANG, Wei LIU, Xianglin JIN, Shifu WENG and Jinguang WU

9:30 C149 FTIR study on the binding of mucin from mucinous cystadenoma of the ovary with calcium ion
Jia LIU, Weihong LI, Zhnlan YANG, Shifu WENG and Jinguang WU

9:50 C151 FTIR spectral study on DL-Homocystec acid at high external pressure
Xu ZHANG, Weihong LI, Zhenhua XU and Jinguang WU

10:10-10:30 Recess

10:30 C177 Determination of phosphorus in natural water using a portable photometer with liquid core wavrguide
Huanwen CHEN, Jian ZHENG, Jianguang ZHOU, Aimin YU, Hanqi ZHANG, Qinhan JIN, and Huanying LIAO

LASER MEASUREMENT, LUMINESCENCE AND FLUORESCENCE SPECTROSCOPY
2001-10-18 a.m. (Thursday)
Site: C3 (Meeting Hall 106)
Presiding: Wanyun MA, Bronislaw K. GLOD, Guangzu MA

8:30 C153 Improved spectrophotometric assay for total peroxyl radical antioxidant potential (TRAP) and its application for chemical and biological samplies
Bronislaw K. GLOD, Monika JANISZ, Tomasz KULAWIK, Marek DABROWKI and Pawel GRIEB

9:00 **C155** A new method of direct determinating $^{13}CH_4$ / $^{12}CH_4$ ratios by laser frequency Modulation absorption spectroscopy
Wanyun MA, Jinhai CHEN, Xianghui ZHANG, Peng QI, Hua FAN, Haifeng HUANG, Songtao DAI, Mingyan YAO and Dieyan CHEN

9:30 **C157** A novel method for determination of salicylic acid by use of Ce(IV)-tween20 chemiluminescence reaction
Hua CUI, Shifeng LI and Xiangqin LIN

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

10:20 **C165** Energy dispersive X-ray fluorescence analysis by Shimandzu EDX-700 and EDX-800
Hideki NAKAMURA, Makoto NISHINO, Takahiro KANEUCHI,
Shoji KUWABARA and Xiaolin YU

10:50 **C167** Theoretical influence coefficients calculated with optimized fundamental paramenters in X-ray fluorescence analysis
Shangjun ZHUO, Guangyi TAO, Ang JI and Cheng SHENG

POSTER SESSION

C43 Cu arc plasma spectra and its temperature measurement by multi-channel method Jingguo YANG, Lihong JIN, Chanli YANG and Mingzhong LI

C69 Survey of S-H background correction in g raphite furnace atomic absorption Spectrometry
Tianyu CHEN, Fang SHAN

C71 Effect of sodium and its compensation in axially viewed inductively coupled plasma atomic emission spectrometry
Zheng WANG, Qilan CHEN, Tianyu CHEN, Anbao WANG, Fengyi XU and Xianxin WU

C73 Determination of trace amounts of germanium by flow injection on-line Coprecipitation technique for the preconcentration with HG-AFS
Jianbo SHI, Quan CHI, Caihua XIONG, Zhiyong TANG and Zexiang JIN

C75 Determination of chromium (III) and chromium (VI) in soil extract by flow injection on-line separation and GFAAS detection
Quan CHI, Jianbo SHI, Caihua XIONG, Zexiang JIN and Zhiyong TANG

C77 Multi-component analysis by flow injection-diode array detection-spectrophotometry Using partial least squares calibration model for simultaneous determination of zinc, cadmium and lead
Yuanqian LI, Jingmei HU, Xiaoli ZOU, Jingguo YANG and Yuanqing HA

C79 Quantitative analysis of test papers by using a personal computer and scanner system
Shyoichiro YASUNAGA, Takenori SHINODA and Hirofumi KAWAZUMI

C81 A miniturized combined flow injection-capillary electrophoresis system and its Application in the analysis of compound drugs
Hongyan PAN, Qiaosheng PU, Shukun XU and Zhaolun FANG

C83 Determination of As, Sb and Bi in pure cathode copper metal by SPICCATO FLOW HG-AFS
Xianjin FENG and Bin FU

C85 Exploitation and application of chemometrics software package for spectrophotometric determination
Huachang LI, Chunshan ZHOU, Bin FU

C87 Determination trace cadmium in high-purity lead by atomic absortion spectrometry
Huachang LI, Chunshan ZHOU, Bin FU and Hong ZHANG

C119 SERS study on the competitive adsorption between dimethyl sulfoxide and acetonitrile on silver electrode in the non-aqueous solution
Ren Ao GU, Yuhua SUN, Peigen CAO, Ru SUN, Guokun LIU, Ben REN and Zhongqun TIAN

C123 Synthesis and spectroscopic studies of POMs
Shilong ZHAO, Hanhui ZHANG, Changcang HUANG and Ruiqing SUN

C127 Determination of organic compounds in water by NEAR-infrared spectroscopy (NIRS)
Xu SU, Karl MOLT and Fangling LI

C129 Simlataneous spectrophotometric determination of three metals using generalized regression neural network
Ling GAO and Shouxin REN

C135 Interaction of room temperature phosphorescent palladium-porphyrin with bovine serum albumin
Wen YUAN, Gairu LI, Chuan DONG and Weijun JIN

C137 Study on the inclusion complexation of cryptotanshinone with cyclodextrin Junfen LI, Chuan DONG and Weijun JIN

C143 Determination and extraction of group B soybean saponins
Jing TIAN, Jihong WANG, Longquan XU and Yunqiao WANG

C145 The adsorptive mechanism of uranium by ironic hydroxide
Bin ZHAI, Shaojun WANG and Yan WANG

C161 Cooperative upconversion luminescence of Yb^{3+}: Oxyfluoride Xiaobo CHEN, Luan CHEN and Zengfu SONG

C163 Study on the interaction of Cu $^{2+}$ with human serum albumin Chao MENG, Shiwu ZHOU, Jianlin WANG, Xiaobo CHEN, Guangzheng MENG and Zengfu SONG

C169 A nitrophenol optical chemical sensor based on fluorescence quenching of N, N' - dibenzylaniline-3, 3', 5, 5' -etramethylbenzidine
Liping LONG, Kemin WANG, Ronghua YANG, Xiaohai YANG and Weihong TANG

C171 Studies on the photoreduction of quinones in supramdecular system of cyclodetrin
Guanghui DENG, Shoulian WEI and Jie LI

C181 Simultaneous determination of Nd, La, Sr, Al and Ta in crystal Nd:LSAT by ICP-AES
Hongjun SHI, Xihong WANG, Husheng LIU

C183 Protein biosensor with a reversible response based on polyacrylamide Fluorescence membrane
Jun LI, Kemin WANG, Dan XIAO, Xiaohai YANG, and Xiaoxiao HE

C185 C_{16} modified distributed fiber optic for capillary liquid chromatographic sensing By mode-filtered light detection
Leiji ZHOU, Kemin WANG, Martin M.F.CHO, Du LI, DanXIAO, Xiaohai YANG, and Weihong TANG

SCHEDULE OF SESSIONS
CHROMATOGRAPHY

PLENARY LECTURES

2001-10-18 a.m.
Site: D3 (Meeting Room)
presiding: E.Bayer and Peichang LU

8:00 **Opening Address**

8:15 **D181** On-Line Coupling Of Capillary Gel Electrophoresis And Electrochromatography To Mass Spectrometry
E.BAYER

8:45 **D175** Micro-and nanofabricated chip technology for genomic/proteomic analysis and single DNA molecule analysis
Yoshinobu BABA

9:15 **D185** Hyphenated Chromatographic Methods In Environmental Analysis
A.A.KETTRUP

9:45-10:00 **Recess**

Presiding: A.A.Kettrup and Yukui ZHANG

10:00 **D25** On-line sample preparation methods for environmental monitoring by chromatographic analysis
Hartmut FRANK, Radomir CABALA, Eugen CHRISTOPH

10:30 **D137** Capillary Electrochromatography: Advances in instrumentation and applications
Chao YAN, Chuanyi YAO, Zhengjin JIANG, Kai ZHANG, Ruyu GAO

11:00 **D109** Investigation on New Highly Sensitive Fluorescence Reagents and Their Applications on HPLC, CEC and CE
Yukui ZHANG, Jinmao YOU

11:20 **D157** Measurement of carbohydrates
Yi CHEN, Xiaoyan WANG, Zen WANG, Xiaoning LU, Qiang WANG

11:40 **D39** Miniaturization of gas chromatographic system and its application in trace analysis of gases
Yafeng GUAN, Hong MIAO, Hanwen WANG, Peichang LU

2001-10-18p.m.

Presiding: Christopher P.Palmer and Yoshinobu Baba

13:30 **D113** Novel sulfonated copolymers with various hydrophobic pendant groups as pseudo-stationary phases in electrokinetic chromatography
Christopher P.PALMER, Wei SHI

14:00 **D183** Synthesis, Characterization and Application of C_{30} Bonded Phases in HPLC-MS and HPLC-NMR Coupling
Klaus ALBERT, Gerd FISCHER, Tobias GLASER, Hussein JICHI, Annette LIENAU, Christel WOLF and Daniel ZEEB

14:30 **D215** Supercritical Fluid Chromatography (SFC): New Technology Facilitates New Applications
R.STEVENSON

15:00 **D21** Rapid gas analysis with a new high speed parallel channel MICRO GC
Janson Douglas John, Steve LO, William H.WILSON, Doug JANSON

15:20 **D23** High-speed analysis with GC-2010
Yuichi HIBINO, Toyohito WADA, Yoshiyuki OKAMURA, Takashi HINE, Syouzou TANABE, Shigeo YASUI,Nobuya KOBAYASHI,Kyouichi KOMORI

15:40 **D53** Chromatographic fingerprinting of herbal preparation
H.S. TUNG, Y.S. FUNG and S.S.C. HUI

16:00-16:15 **Recess**

Presiding: Chao YAN and Klaus Albert

16:15 **D45** Chromatographic method used to evaluate equilibrium partitioning
Xinmiao LIANG, Rongbo GUO, Qian LUO, Jiping CHEN, Qing ZHANG

16:35 **D111** Lab-on-a-chip technologies: a new generation of analytical tool for life science
Naoto KONDO

16:55 **D209** Introduction of low TFA Reversed-phase capillary columns for LC/MS
Ning MU

17:15 **D135** The separation and determination of nonsteroidal anti-inflammatory drugs by non-aqueous capillary electrophoresis
Jianhui XIONG, Yufang ZHENG, Pudun ZHANG, Kun MING,Yukui ZHANG, Guowang XU

ORAL SESSION

2001-10-19 a.m.
Site: D1 (Meeting Hall 102)
Presiding: T.Nakagawa and Binjiu XU

8:00 **D167** Microanalysis of chiralselective drug/protein interaction
T.NAKAGAWA, A.SHIBUKAWA, Y.KURODA

8:15 **D179** Analysis of surfactants in industrial wastewater by HPLC, titration and capillary electrophoresis
Teresa M CHOW, Monte WILCOXON

8:30 **D127** Separation of DNA ladders by gradient elution of capillary electrophoresis on microchip
Lihua ZHANG, Fuquan DANG, Yoshinobu Baba

8:45 **D49** Application of ion exclusion chromatography to the investigation of free radical reactions in biological systems
Bronislaw K.GLQD, Pawel GRIEB

9:00 **D165** Determination of 1,4-dioxane content in shampoo products containing ethylated surfactants by headspace SPME and GC-MS
W.F. TONG

9:15 D153 Study of quality control method for satiente with various analytical techniques
Jia LUO, Guodong ZHANG, Yongshan LI, Nanyin HAN and Bingjiu XU

9:30 D173 Analysis of pesticide residues in food using on-line GPC-GC/MS
Haruhiko MIYAGAWA, Mikiya KITAGAWA, Shinjiro HORI

9:45 D123 Recent advances in the enantio separations based on the chiral ligand exchange
Toshiyuki HOBO, Zilin CHEN

10:00-10:15 Recess
Presiding: Toshiyuki HOBO and Y.S.FENG

10:15 D15 Establishment of chromatographic gray CGM(1,1,3)model and prediction of aromatics retention behavior
Zhigang ZHANG, Xiaotong ZHANG, Hongsheng DING, Zhaolin SUN

10:30 D119 Determination of phenol and resorcinol by capillary electrophoresis coupled with square wave amperometric detector
Zhenkai ZHENG, Yining ZHENG, Tianyao XIE, Jinyuan MO

10:45 D43 Recent research and development on fast gas chromatography
Jie WU

11:00 D161 Solid- phase microextraction followed by gas-phase derivatization for the determination of short- chain fatty acids in aqueous matrices by gas chromatography-mass spectrometry
Gongke LI, Yuexing ZHENG, Tiangang LUAN, Zhanxia ZHANG

11:15 D67 Determination of bio-available cadmium in polluted soil and water using cationic surfactant as ion-interaction reagents by RP-HPLC with fluorescence detection
Bin LI, Qiuquan WANG, Hua YAN, Benli HUANG

11:30 D207 New Directions in Solid-Phase Extraction for Sample Preparation
Ron Majors

2001-10-19 a.m.
Site: D2 (Meeting Hall 103)
Presiding: Jason Ellis and Yi CHEN

8:00 D125 Chiral monolithic columns for the enantiomeric separation by capillary electrochromatography
Zilin CHEN, Toshiyuki HOBO

8:15 D47 Organic ion analysis with ion chromatography
Joachim WEISS

8:30 D71 Determination of Coenzyme Q and α -tocopherol in biological samples by liquid chromatography with electrochemical detection
Feng QU, Jinming LIN, R.S.SOHAL

8:45 D1 Optimizing EPA volatiles analysis by GC/MS for improved sample througput and increased productivity
Jason Ellis, Cameron George, Allen K. Vickers

9:00 D171 On-line pretreatment method to remove proteins for LC-MS using column switching technique
Hiroyuki MURAKITA, Shinichi KAWANO, Takahiro GODA, Yuki HASHI, Dong LU

9:15 **D17** Solid phase microextraction (SPME) for the determination of 9 VOCs in snow water in Beijing
Shan ZHOU, Junxiong HUANG, Junxing KANG

9:30 **D75** Highly sensitive and selective determination of bromate using a semi-micro HPLC system combined with a post column reaction methods
Junichi MASUDA, Atsushi IEUJI, Hirohisa MIKAMI, Yuki HASHI, Masayuki NISHIMURA, Dong LU, Hiroyuki MURAKITA

9:45 **D27** An optimized dual column system for the analysis of chlorinated pesticides, herbicides and PCBs by GC-ECD
Jason ELLIS, Cameron GEORGE, Allen K. VICKERS

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

Presiding: Yafeng GUAN and R.STEVENSON

10:15 **D129** Capillary electrophoresis of plasmid DNAs with different intercalating agents
Fuquan DANG, Lihua ZHANG, Yoshinobu BABA

10:30 **D133** The preparation and evaluation of rigid monolithic column for capillary electrochromatography
Guichen PING, Jianhui XIONG, Weibing ZHANG, Lihua ZHANG, Yukui ZHANG

10:45 **D87** Quantity relationship model between the separation factor and the bonded phase characteristic structure for fullerenes in HPLC
Yihong WANG, Baozeng REN, Haisong CHEN, Hua LI, Fuan WANG

11:00 **D59** Application of high-speed countercurrent chromatography on the separation of black tea theaflavins
XueLi CAO, John R.Lewis, Tim J.Bond, Alan P.Davies

11:15 **D69** Determination of disintegration rate of ascorbic acid using electrostatic ion chromatography
Guijun SHEN, Huanwen CHEN, Rui YANG, Aimin YU

11:30 **D201** HPLC-APCI-MS/MS screening of the astragalosides in astragalus mongholicus root
Qing XU, Hongbin XIAO, Xinmiao LIANG

11:45 **D195** Determination of zeranol in animal livers by liquid chromatography-tandem mass spectrometry
Xiaoming FANG, Jiahua CHEN, Dehua GUO, Guoquan WANG

POSTER SESSION

2001-10-19 p.m.
Site: Poster Hall
Presiding: Weibing ZHANG and Shan ZHOU

D3 Analysis of the volatile oil of patchouly
Guopeng LIU, Faye YAO

D5 Efficient and rapid chromatographic analysis for cracking gas of endothermic fuels
Zuguang LI, Weimin MO, Yunfang GAO, Shenghui LIU, Xiongfei YU

D7 Application of solid-phase microextraction in organophosphous pesticides analysis
Ziwei YAO, Guibin JIANG

D9 Determination of methyltin species in aqueous samples by cryogenic purge-and-trap gas chromatography with flame photometric detection
Jiemin LIU, Guibin JIANG, Jingbo CHAO, Wei CHENG, Ziwei YAO

D11 Speciation analysis of butyltin compounds in sediment by headspace solid phase microextraction and gas chromatography- flame photometric detection
Jiyan LIU, Guibin JIANG

D13 Determination of volatile organic compounds in environmental samples using solid phase microextraction and headspace-gas chromatography
Honghe LIU, Yuanqian LI

D19 Relationship between retention for homologues and density of mobie phase in supercritical fluid Chromatogr.
Baozeng REN, Yingchen GUO, Jianchi SONG, Hua LI, Fu An WANG

D29 Determination of trace amount of sulfur mustard by GC-PFPD
Yandong WANG, Xiufeng WANG, Fujun ZHOU, Hongying WANG

D33 Determination of nitrobenzene in wastewater by gas chromatography
Tingxi ZHANG, Shenfan ZHOU

D35 A new kind of column efficiency evaluation method: evaluating column efficiency by transition time
Liqiang SU, Yingjie LI, Yongjie ZHENG

D51 Parts per trillion level anion determinations in ultrpure water by ion chromatography
Qiantao CAI, Fan CHEN, Zhaoguang YANG

D55 Studies on the determination of chloride and sulphate in grapes and leaves by ion chromatography
Meisu ZHOU Donglong GUO, Peihua LIN

D57 Determination of chloride in water by single column ion chromatography
Peihua LIN, Donglong GUO, Meisu ZHOU

D61 Separation of platinum and palladium by ion exchange chromatography
Huachang Li, Chunshan ZHOU, Bin FU, Shufang TANG

D63 Separation of tanshinones from salvia miltiorrhiza bunge by hige-speed countercurrent chromatography
Guilian TIAN, Tianyou ZHANG, Fuquan YANG, Yabin ZHANG

D65 Determination of polynuclear aromatic hydrocarbons in environmental samples by solid-phase microextraction coupled with HPLC
Jingqi TAO, Bifang LI, Chaoying WANG, Gongke LI

D77 The classification of 252 drugs in reversed-phase HPLC and the rules of their chromatographic behavior
Dong LU, Guijian LIANG,Li ZHU,Yongli HU,Nobuya Kobayashi

D81 FMOC-Cl as the derivatising reagent for the analysis of aminoacids in RP-HPLC
Mengxia XIE, Yayun DING, Yuyan LIU, Juan KANG

D85 Determination of migration components in the coated layer of the propellant
Tingxi ZHANG, Shenfan ZHOU

D89 Chromatographic separation of enantiomers of ofloxacin with (+)-10-camphorsulphonic and as chiral counter ion
Li ZOU, Minghua HU, Xiuzhu XU

D91 Prediction of capacity factor of benzene derivatives by RBFNN-HPLC
Xiaotong ZHANG, Zhigang ZHANG, Yangyong CAI, Zhaolin SUN

D93 Determination and stability study of azithromycin lactobionate for injection by HPLC and TLC
Yajuan WANG, Guopeng LIU, Yanping SHI

D95 Simultaneous determination of four kinds of pesticide residues in cucumbers and the litter green pepper by HPLC
Liping PENG, haoran ZHOU, Jingdong ZHANG, Yuzhi WANG

D99 Retention behavior of alkylbenzenes and anilines as a function of temperature on C_{12}-ZrO_2 and C_{12}-SiO_2 stationary phases
Qinghe Zhang, Yukui Zhang, Weibing Zhang

D101 An original optimum software for the gradient elution of HPLC
Heng LIANG, Ying LIU, Yanhua DONG

D103 Studies on the Expert System for Thin-Layer Chromatography Method Development in Pharmaceutical Analysis
Xin DI, Yundong BAN, Yuqing SUN

D107 Study on α -naphthylthiourea and α -naphthylamine by thin layer chromatography and ultraviolet spectrophotometry
Weimin MO, Zuguang LI, Shenghui LIU, Yadong WANG, Meili WANG, LicongSUN

D115 Determination of trace amine neurotransmitters with capillary electrophoresis coupled low-cost laser-induced fluorescence detector
Dongming ZHANG, Min FU, Wanyun MA, Dieyan CHEN

D117 The separation and determination of ephedrine and pseudoephedrine in traditional Chinese medicines by capillary electrophoresis-conductivity detection
Yining ZHENG, Tianyao XIE, Shoulian WEI, Zhenkai ZHENG, Jinyuan MO

D121 Determination of effective components in riyebaifuning tablets by nonaqueous capillary electrophoresis with electrochemical detection
Yining ZHENG, Tiaoyao XIE, Shoulian WEI, Zhenkai ZHENG, Jinyuan MO

D131 Analysis of gastrodin and tetramethylpyrazine in traditional Chinese medicine preparations by capillary electrophoresis
Rongying WANG, Wanyun MA

D141 Separation of Nucleosides by Capillary Electrochromatography
Zhengjin JIANG, Ruyu GAO, Zhichao ZHANG, Kai ZHANG, Qinsun WANG, Chao YAN

D145 Capillary Electrophoresis with Quantitative Sample introduction
Chuanyi YAO, Ruyu GAO, Chao YAN

D149 Pressurized Capillary Electrochromatographic separation of five peptides
Kai ZHANG, Zhengjin JIANG, RuyuGAO, Zhichao ZHANG, Qinsun WANG, Chao YAN, Chuanyi YAO, Wenyu XUE

B155 Many-particle simulation of ion trajectories and spectra in fourier transform ion cyclotron resonance mass spectrometry
Makoto FUJIWARA, Yasuhide NAITO

D159 Use of negative chemical ionization gas chromatography-mass spectrometer in determination of pesticides
Haruhiko MIYAGAWA, Feng QU, Koki TANAKA, Katsuhiro NAKAGAWA

D163 Study on the aroma components of osmanthus by absorption wire/gas chromatography/mass spectrometry
Janyue FENG, Jing ZHAO, Qiaoqiao HUANG, Lianmei FENG

D189 Stydy on enzyme hydrolysis of group B soybean saponins by HPLC-MS
Jing TIAN, Longquan XU, Bin ZHAI, Jihong WANG, Yunqiao WANG

D191 Determination of cedrol in seawater during redtide by solid phase microextraction coupled with gas chromatography-mass spectrometry
Gongke LI, Mingqiao ZHAO, Zhanxia ZHANG

D193 Determination of prometryne in vegetables by GC-MS using microwave-assisted extraction
Yun YANG, Wei LUAN, Bihui GUAN, Gongke LI

D199 Determination of sulfur-containing compounds in low-sulfur gasoline and diesel-rang petroleum products by GC-AED and GC-MS
Changrong HUANG, Bo ZHANG

D203 A family of SPE sorbents solves sample preparation problems during pharmaceutical and agrochemical analysis
Ron MAJORS

D205 A novel, spherical, silica-based c18 sorbent for high sensitivity solid-phase extractions
Ron MAJORS

D213 Challenges and Solutions in Separation Science for The New Decade
Robert STEVENSON

D211 Application of TOC, TNb, and AOX analysis in the field of environmental protection
Thomas STRATESTEFFEN

SCHEDULE OF SESSIONS
MAGNETIC RESONANCE

2001-10-18 a. m. (Thursday)
Site: E1 Friendship Palace No.1
Presiding: Chaohui YE

8:30	**Opening speech**	
8:35	**E3**	New advances in human MR Jürgen HENNIG
9:10	**E5**	TROSY based NMR methods for structure and function studies of large biomolecules Guang ZHU, Youlin XIA, David MAN, Xianzhong YAN, and Kong Hung SZE
9:45-10:00	**Recess**	
10:00	**E29**	Measurement of longitudinal relaxation times in crowded ^{1}H NMR spectra using one- and two-dimensional maximum quantum (MAXY) NMR spectroscopy Maili LIU, Chaohui YE, R. Duncan FARRANT, Jeremy K. NICHOLSON, and John C. LINDON
10:35	**E7**	NMR microscopy (μ MRI) of articular cartilage: Beyond the magic angle effect Yang XIA
10:55	**E11**	Improved quality of parallel magnetic resonance imaging by compensating the receiver interface impedance Edmund KWOK, Zhiyang YOU, Zhong CHEN, and Jianhui ZHONG
11:15	**E13**	MR imaging and MR spectroscopy for early detection of chronic epilepsy in rats Yunhuang YANG, Ying ZANG, Dan HAN, Liyun LI, Chaohui YE, and Maili LIU
11:35	**E00***	Amyloid fibrils from a highly thermostable BPTI mutant—implication on the stabilised folding intermediate states due to decreased entropy loss upon protein folding Wei Zhang, Janus Vang, Poul Erik Hansen (*Late arrival)

2001-10-18 p. m. (Thursday)
Site: E1 Friendship Palace No.1
Presiding: Steve C. F. AU-YEUNG

1:30	**E19**	Brazzeana Baillon: three-dimensional solution structure of recombinant des-pGlu1-brazzein as determined by multinuclear NMR spectroscopy Michele L. DeRIDER, E. Sonay KULOGLU, Frits ABILDGAARD, David J. ACETI, Fariba M. ASSADI-PORTER, Mikkel WEST-NIELSEN, and John L. MARKLEY
2:05	**E21**	Advanced isotope assisted NMR method for structural studies of proteins Masatsune KAINOSHO, Tsutomu TERAUCHI, Shin-ya OHKI, Toshiya HAYANO, and Masato SHIMIZU
2:40-3:00	**Recess**	

3:00-5:00 POSTER SESSION
Site: Corridor on 2nd floor of the Friendship Palace
Nuclear Magnetic Resonance Spectroscopy and Imaging

E53 ^{31}P MRS observation of the hatching process of hen eggs
Yue FENG, Jianhua CHANG, Xu ZHANG, Guang LU, and Maili LIU

E55 Multiexponential T_2 relaxation of brain water of traumatic rats
Xu ZHANG, Feng LI, Chunqing LI, Dan HAN, Xianrong ZHANG, Chaohui YE, and Maili LIU

E57 Studies on the competitive binding of ibuprofen and salicylic acid to human serum albumin using NMR relaxation measurements
Yanfang CUI, Conggang LI, Chaohui YE, and Maili LIU

E59 Implementation of spiral EPI on 4.7T MRI scanner
Guang LU, Xu ZHANG, Yunhuang YANG, Liyun LI, Chaohui YE, and Maili LIU

E61 An evaluation of the lanthanide polyoxometalates as possible MRI contrast agent
Jianghua FENG, Fengkui PEI, Guoying SUN, Xu ZHANG, and Maili LIU

E63 Bioeffects evaluation of a long-term administering ChangLe by ^{1}H NMR spectroscopy
Jianghua FENG, Xiaojing LI, Fengkui PEI, and Yuxiu NIE

E65 ^{1}H NMR studies of micelles
Youru DU, Hanzhen YUAN, Sui ZHAO, Jiayong YU, Xijia MIAO, Shizhen MAO, and Lianfang SHEN

E67 Multiple quantum ^{27}Al MAS NMR of SAPO-44 molecular sieves
Xianchun LIU, Xiuwen HAN, Ding MA, Zhongmin LIU, Xinhe BAO, Hongbing HU, and Steve C. F. AU-YEUNG

E69 Investigation of interaction between molybdenum and MCM-22 zeolite in Mo/MCM-22 catalysts by multiquantum MAS NMR technique
Ding MA, Xiuwen HAN, Xianchun LIU, Yide XU, Xinhe BAO, Hongbing HU, and Steve C. F. AU-YEUNG

E71 Identification of the distribution of tetrahedral aluminium sites in MCM-22 type zeolites by solid-state NMR
Ding MA, Xiuwen HAN, Zhimin YAN, Xiumei LIU, Xinhe BAO, Riqiang FU, Hongbing HU, and Steve C. F. AU-YEUNG

E73 ^{27}Al multiquantum MAS NMR study of methane dehydro-aromatization catalysed by o/HZSM-5
Lingling SU, Xiuwen HAN, Ding MA, Yide XU, Xinhe BAO, Hongbing HU, and Steve C. F. AU-YEUNG

E75 Observation of spiltover hydrogen and adsorbed hydrogen on supported rhodium by ^{1}H MAS NMR
Zhimin YAN, Jianqin ZHUANG, Xianchun LIU, Hongtao MA, Xiumei LIU, Xiuwen HAN, and Xinhe BAO

E77 Bransted acid sites populations on the external and internal surface of HY zeolite with different crystal sizes:a solid state NMR study
Zhimin YAN, Jianqin ZHUANG, Gang HU, Xianchun LIU, Xiumei LIU, Xiuwen HAN, and Xinhe BAO

E79 Characterization of acidity in TS-1 using ^{31}P MAS NMR of the probe molecule trimethylphosphine
Jianqin ZHUANG, Zhimin YAN, Xiumei LIU, Xianchun LIU, Xiuwen HAN, and Xinhe BAO

E81 Solid-state NMR investigation of aluminosilicate zeolite catalysts
Yiqing YANG, Xiangming KONG

E83 Solid-state NMR study on the phase structures of poly(3-hydroxybutyrate) and poly(3-hydroxybutyrate-co-3-hydroxyvalerate)
Yan CHEN, Guang YANG, Qun CHEN

E85 Hydration of layered sodium silicate SKS-6 studies by solid state NMR
Xuanjun AI, Jinxiang DONG, Feng DENG, and Chaohui YE

E87 Analysis of removal of inhomogeneous second order broadening in MQMAS NMR
Lei CHEN, Feng DENG, Chaohui YE

E89 Characterization of organofunctionalized MSU-x zeolite by high resolution solid state NMR
Qing LUO, Feng DENG, Yanjun GONG, Chaohui YE, and Dong WU

E91 The NMR pulses program's design of any N-qubit Grover's algorithm and the experiment realization
Xiaodong YANG, Xijia MIAO

E93 NMR study of metallosupramolecular cube with nanometer-sized cavity
Maochun HONG, Yingjun ZHAO, Weiping SU, and Rong CAO

E95 NMR investigations on electron irradiated ferroelectric poly(vinylidene fluoride-trifluoroethylene) copolymers
Liying WANG, Jiwen FENG, Chaohui YE

E97 2D NOESY investigation of the Interaction between sodium dodecylsulfonate and poly-ethylene glycol in aqueous solution
Xiaowen FANG, Hongchang GAO, Shizhen MAO, Sui ZHAO, Jiayong YU, and Youru DU

E99 ^{1}H NMR study of self-assembly of Dendr.PE-PAA, an amphiphilic block copolymer in aqueous solution
Shizhen MAO, Tianzhi WANG, Xijia MIAO, Xiaowen FANG, Hanzhen YUAN, Youru DU, Linyong ZHU, Miaozhen LI, and Erjian WANG

E101 NMR analysis of matrine and oxymatrine
Guoyun BAI, Daqi WANG, Chaohui YE, and Maili LIU

E103 Characterization and antiglobulin tests of polyelectrolyte
Xujie YANG, Lude LU, Tongbin ZHOU, Xin WANG, and Jianfeng LIAN

E105 Study of preparation of $K_3[VO(O_2)_2(C_2O_4)]$ in solution by ^{51}V NMR
Jianliang YE, Hongchen XIE, Zhong CHEN, Zhiwei CHEN, and Peiqiang HUANG

E107 Study of chemical exchange in $SnCl_nBr_{4-n}$ system by Sn-119 NMR spectroscopy
Yonghong ZHANG, Xi'an MAO

E109 Study on the complex site of metal ions Cr^{3+}, Mn^{2+} and Fe^{3+} with fluoroquinolone antimicrobials
Liang CHEN, Hao XU, Lihua MA

E111 The NMR study on radiation effect on lighter body
Xin ZHAO, Aixin QIAO, Hongjian YANG

E113 NMR of monocrotaline and retronecine
Xiaojun WU, Hanzhen YUAN

E115 Application of CPLD/FPGA in NMR spectrometer
Chaoyang LIU, Jianqing QIU, Chaohui YE

Electron Paramagnetic Resonance Spectroscopy

F117 Paramagnetic silver nanoparticles in sodalites
Jacek MICHALIK, Hirihito YAMADA, Joanna PERLINSKA

E119 ESR studies on Cu/zeolite of dehydration, oxidation and absorption
Li WANG, Puyu ZHANG, Zhaoyang YE, Shan JIANG, and Linxian FENG

E121 ESR studies on hydrated Cu/mordenit, Cu/erionit, Cu/ZSM-5 and Cu/ferrierite
Li WANG, Puyu ZHANG, Zhaoyang YE, Shan JIANG, and Linxian FENG

E123 ESR studies on paramagnetic calixarenes
Qi WANG, Jiasong WANG, Yong LI, and Guoshi WU

E125 ESR studies of copper(II)-15-crown-5 complexes
Xiwang DU, Lan ZHANG, Yong LI

E127 ROS generation and some antioxidant components in Aloe
Y. LIU, Z. W. CHEN, H. M. WANG, Y. K. XU, K. LIU, and W. CHEN

E129 Utility of the phosphorylated analoque of DMPO in spin trapping-ESR
Y. K. XU, K. LIU, J. SUN, and Y. LIU

2001-10-19 a. m. (Friday)
Site: E1 Friendship Palace No.1
Presiding: Maili LIU

8:30 **E25** Structure-thermodynamic relationships: Application to DNA modelling
Steve C. F. AU-YEUNG, W. L. A. Kurtz CHIU, Amy Y. M. KEUNG, and Sherlock S. L.LAM

9:05 **E27** Diffusional elucidation of rod-like polymers in the thermotropic liquid crystalline state by field-gradient NMR spectroscopy
Isao ANDO, Yige YIN, C. ZHAO, Hideyuki YAMAKAWA, and Shigeki KUROKI

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

10:00 **E15** Fast parallel MR imaging with interleaved water/fat acquisition
Jianhui ZHONG, Edmund KWOK, Zhong CHEN, and Saara M. TOTTERMAN

10:35 **E31** Characterization of the hydrogen bond network in $tRNA^{Trp}$ by NMR spectroscopy
Xianzhong YAN, Youlin XIA, Xiangming KONG, and Guang ZHU

10:55 **E33** Studies of the native starch granules: A multinuclear NMR approach
H. R. TANG, B. P. HILLS

11:15 **E35** Biexponential ^{13}C spin-lattice decay behavior of the crystalline region of semicrystalline copolymers and its origin
Weixin LIN, Qiujin ZHANG, Guang Yang, and Qun CHEN

11:35 **E37** Solid-state ^{13}C NMR chemical shift anisotropy tensors of polypeptides
Yufeng WEI, Dong Kuk LEE, A. RAMAMOORPHY

2001-10-19 p. m. (Friday)
Site: E1 Friendship Palace No.1
Presiding: Fengkui PEI

1:30 **E39** Magic-angle hopping : Anisotropies, heterogeneous catalysis and NMR
Camille KEELER, Herman LOCK, I-Ssuer CHUANG, and Gary E. MACIEL

2:05 **E43** Rearrangement processes in molecular crystals as studied by dynamic magic angle spinning NMR spectroscopy
Zeev LUZ

2:40-3:00 **Recess**

3:00 **E41** Application of ^{27}Al MQ MAS NMR method in determination of aluminum status in zeolites
Ding MA, Xiuwen HAN, Lingling SU, Xianchun LIU, Xinhe BAO, Hongbing HU, and Steve C. F. AU-YEUNG

3:35 **E45** NMR spin locking of proton magnetization under frequency switched Lee-Goldburg(FSLG) pulse sequence
Riqiang FU

3:55 **E47** ^1H T_1 and $T_{1\rho}$ CRAMPS studies of the phase structure of poly-(R)-(3-hydroxybutyrate)/chitosan and poly-(R)-(3-hydroxybutyrate-co-3-hydroxyvalerate)/chitosan blends
Man Ken CHEUNG, Kris P. Y. Wan, Qing'an MENG

4:15 **E49** Binding site of Mg^{2+} at purine of ATP
Ling JIANG, Xi'an MAO

4:35 **E51** Variable-temperature ^{129}Xe NMR studies of zeolite MCM-22
Fang CHEN, Mojie CHEN, Feng DENG, Yong YUE, and Chaohui YE

SCHEDULE OF SESSIONS
ELECTROANALYTICAL CHEMISTRY

KEYNOTE LECTURES

2001-10-18 a.m. (Thursday)
Site: F (Meeting Hall 202)
Presiding: M. SENDA & Jiaqi DENG (8:30-9:20)
P. ZUMAN & Ruqin YU (9:20-10:10)
A. BOND & Jiannong YE (10:20-11:10)
T. OSA & Hongyuan CHEN (11:10-12:00)

8:25 **A speech**
Erkang WANG

8:30 **F3** Polarography in solutions of some problems in organic chemistry recent applications
Peter ZUMAN

8:55 **F5** Ion-transfer stripping voltammetry: Theory and application in trace analysis
Mitsugi SENDA, Hajime KATANO

9:20 **F7** Spectroscopic and electrochemical studies of metal-metal bonded derivatives in corrole series
Roger GUILARD

9:45 **F9** Porphyrin derivatives as carriers for electrochemical sensors
Ruqin YU, Guoli SHEN, Cancheng GUO, and Xiaobing ZHANG

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

10:20 **F11** An integrated theoretical, instrumental and experimental approach to the evaluation of sinusoidal, square wave, staircase and other forms of transient voltammetry when analysed in the frequency domain
Alan BOND, David GAVAGHAN, Michael HONEYCHURCH, and Darrell ELTON

10:45 **F13** Construction of bioelectrocatalytic anode and cathode immobilizing all components of enzyme, coenzyme and mediator
Tetsuo OSA, Yoshitomo KASHIWAGI, Qiang CHEN, Qianghai PAN, and Junichi ANZAI

11:10 **F15** Intravascular chemical sensors: Enhancing biocompatibility and *in vivo* performance using noval nitric oxide release polymers
Mark E. MEYERHOFF, Huiping ZHANG, Melissa M. BATCHELOR, Bong OH, Megan FROST, Pawel PARZUCHOWSKI, Kelly A. MOWERY, Mark H. SCHOENFISCH, Joyce A. WAHR, and Jeffrey GREEN

11:35 **F17** Some new aspects of electrochemiluminescence
Shaojun DONG

KEYNOTE LECTURES

2001-10-18 p.m. (Thursday)
Site: F (Meeting Hall 202)
Presiding: M.E. MEYERHOFF & Shaojun DONG (1:30-3:10)
T. TAKAMURA & Shengshui HU (3:20-4:10)

1:30 F19 Surface plasmon resonance imaging of DNA hybridization on polypyrrole support
Gerard BIDAN, Thierry LIVACHE, Andre ROGET, Philippe GUEDON, and Yves LEVY

1:55 F21 A tyrosinase biosensor based on the incorporated in a TiO_2 sol-gel matrix on the electropolymerized thionine modified membrane
Baohong LIU, Xin XU, Bin ZHAO, Jilie KONG, and Jiaqi DENG

2:20 F23 Flow and electroinjection methods for process analysis and complex samples
Gary D. CHRISTIAN

2:45 F25 Electrochemistry of cellobiose dehydrogenase from different origins at gold and carbon electrodes
Lo GORTON, Annika LINDGREN, Ted LARSSON, Leonard STOICA, Tautgirdas RUZGAS, and Martin SCHULEIN

3:10-3:20 **Recess**

3:20 F27 Towards Proteo-Microchips
J.S. ROSSIER, F. REYMOND, T. ROHNER, V. GOBRY, I. ARNAUD, X.X. BAI, Ziyong WU, and H.H. GIRAULT

3:45 F29 The potential of electroanalytical methods in the biosciences
Jean-Michel KAUFFMANN

ORAL SESSION
6.1 FUNDAMENTALS OF ELECTROANALYTICAL CHEMISTRY
6.2 NEW TECHNIQUES AND METHODS IN ELECTROANALYSIS

2001-10-18 p.m. (Thursday)
Site: F (Meeting Hall 202)
Presiding: G.D. CHRISTIAN & Tuzhi PENG (4:10-4:46)
K. AOKI & Kui JIAO (4:46-5:10)

4:10 F57 Study of electrochemical capacitance and impedance Technique
Xiurong YANG, Zhiliang ZHENG, Weidong WANG, Bei NIE, Bin QI, Qiang GAO, and Haizhen HUANG

4:22 F59 Micro- and nano-pipettes and their application in electrochemistry at liquid/liquid interfaces
Yuanhua SHAO, Yi YUAN, Bin SU, Jidong GUO, Peng SUN, and Zhiquan ZHANG

4:34 F61 Sol-gel based carbon ceramic composite electrodes bulk-modified with cupric hexacyanoferrate nanoparticles
Peng WANG, Guoyi ZHU

4:46 F31 Study on electrochemistry of C_{60} and surfactant DDAB films in aqueous solution
Meixian LI, Nanqiang LI, Zhennan GU, and Xihuang ZHOU

4:58 F33 Biamperometry for on-line direct determination of irreversible redox couple
Chuan ZHAO, Junfeng SONG, Juncai ZHANG

6.3 SURFACE MODIFICATION AND CHARACTERIZATION
6.4 ELECTROCHEMICAL SENSORS

2001-10-19 a.m. (Friday)
Site: F (Meeting Hall 202)
Presiding: G. BIDAN & Jyn Myng ZEN (8:30-9:26)
K. TAKAMURA & Xiangqin LIN (9:26-10:22)
H.H. GIRAULT & Huangxian JU (10:22-11:14)
K. HAYASHI & Kwok Yin WONG (11:14-11:55)

8:30 **F81** Charge selective recognition at fibroin modified electrode
Tuzhi PENG, Qiong CHENG

8:48 **F83** Surface modification of a graphite anode for Li-ion batteries by a vacuum deposited copper film
Tsutomu TAKAMURA, Masaomi YOSHIDA, Keita YAMAGUCHI, and Kyoichi SEKINE

9:08 **F85** Direct electron transfer and characterization of hemoglobin immobilized on a gold colloid-cysteamine modified gold electrode
Hongyuan CHEN, Haiying GU, Aimin YU

9:26 **F87** SPM study on surface film formation on graphite electrodes in rechargeable batteries
Zempachi OGUMI, Soon-Ki JEONG, Minoru INABA, and Takeshi ABE

9:41 **F89** Electrochemical behaviors of estradiol, estrone and estriol on the Nafion-modified glassy carbon in the presence of CTAB
Shengshui HU, Kangbing WU, Hongchao YI, and Dafu CUI

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

10:10 **F91** Selective determination of dopamine in the presence of ascorbic acid by using poly(N-acetylaniline) modified electrode
Shouguo WU, Longzhen ZHENG, Xiangqin LIN, Lei NIE, and Lei RUI

10:22 **F93** Preparation of Nafion-nickel(II) macrocyclic complex base modified electrode and its application to NO determination
Qingqi ZHAO, Ruping LIANG, Hua XIANG, Jinyuan MO, Tongbu LU, and Peixiang CAI

10:34 **F95** Determination of ascorbic acid(AA) in pharmaceutical and fruit juice samples on the polyaniline modified rotoring pencil lead(PAN-RPL) electrode
M.R. MAJIDI, K. Asadpur-ZEYNALI

10:50 **F97** Preparing long DNA on mica for AFM imaging
Hongda WANG, Zhuang LI, Aiguo WU, Lihua YU, and Huaming YANG

11:02 **F121** Electrochemical microfluidic device integrated with nanoliter volume pre-reactor for highly selective detection of biomolecules
Katsuyoshi HAYASHI, Ryoji KURITA, Tsutomu HORIUCHI, and Osamu NIWA

11:20 **F123** Electrochemical biosensors based on electrodes modified with nanoparticles of colloidal gold
Huangxian JU

11:40 **F125** Immobilization DNA on nano-gold modified ITO for the determination of mifepristone
Junjie ZHU, Jinzhong XU, Hongyuan CHEN

6.4 ELECTROCHEMICAL SENSORS
6.5 ELECTROANALYTICAL CHEMISTRY COMBINED WITH OTHERS
6.6 ELECTROANALYSIS IN BIOLOGY AND MEDICINE

2001-10-19 p.m. (Friday)
Site: F (Meeting Hall 202)
Presiding: Lo GORTON & Xiurong YANG (1:30-2:20)
Z. OGUMI & D. LEECH (2:20-3:05)
R. GUILARD & Naifei HU (3:15-4:00)
J.-M. KAUFFMANN & Tianyao XIE (4:00-4:47)
J. SUZUKI & Zhuobin YUAN (4:47-5:35)

1:30 **F127** A new amperometric acid sensor for beverages
Kiyoko TAKAMURA, Sanae OHTSUKI, Fumiyo KUSU

1:50 **F129** The construction of glucose sensor based on a copper-plated screen-printed carbon electrode
Jyh Myng ZEN, Hsieh Hsun CHUNG, Annamalai SENTHIL KUMAR

2:05 **F131** The use of optical oxygen sensors in toxicity monitoring and drug screening
Kwok Yin WONG, Larry M.C. CHOW, Nga Yan KWOK

2:20 **F151** Studies on the oxidation of o-dianisidine by electrochemistry and optically transparent thin-layer spectroelectrochemistry
Kui JIAO, Tao YANG, Wei SUN, and Gang LU

2:38 **F153** Electrochemical control of chromatic change in deionized latex suspensions
Koichi AOKI, Shaoming WANG

2:53 **F155** Electrochemical and spectroscopic study on the interaction of DNA and ligands
Xuemei WANG, Shengjin GONG, Jingjuan XU, and Hongyuan CHEN

3:05-3:15 **Recess**

3:15 **F157** Square wave amperometric detector for capillary electrophoresis
Tianyao XIE, Jinyuan MO

3:27 **F159** Application of radical basis function neural networks to analyze overlapping Osteryoung square wave voltammetry
Shouxin REN, Ling GAO

3:40 **F179** Simultaneous determination of dopamine and ascorbic acid at a glutamic acid modified graphite electrode
Xiangqin LIN, Lei ZHANG

4:00 **F181** Determination of active ingredients of Rhododendron dauricum L. by capillary electrophoresis with electrochemical detection
Yuhua CAO, Xianghuan DING, Qingcui CHU, and Jiannong YE

4:20 **F183** Enhanced electron transfer for horseradish peroxidase in Eastman AQ films on pyrolytic graphite electrodes
Rong HUANG, Naifei HU

4:32 **F185** Determination of sulpiride by linear sweep stripping voltammetry at a mercury electrode
Yongnian NI, Ping QIU, Serge KOKOT

4:44 **F187** Differential pulse voltammetric determination of uric acid in the presence of high concentrations of ascorbic acid on the activated pencil lead electrode
M.R.MAJIDI, S.M.GOLABI, E. ALIPOUR

4:59 **F189** Separation of active components from rhubarb by β-CD electro-kinetic capillary electrophoresis
Xiaoyu SHANG, Zhuobin YUAN

5:11 **F191** Flow injection analysis of HBsAg with immunoelectrode
Yan GAO, Jianding QIU, Ni WU, Xiaoyong ZOU, and Peixiang CAI

5:23 **F193** A novel poly(4-aminopyridine) film electrode for selective detection of biologically compounds
Zhenhui WANG, Dai ZHANG, Yan ZHANG, and Shuping ZHOU

POSTER SESSION: F35-F55, F63-F79, F101-F119, F133-F149, F161-F177, F195-F227
2001-10-18 p.m. (Thursday)
Site: Corridor on 2nd floor of the Meeting Hall

F35 Study on spline wavelet self-convolution in filtering and resolving overlapped voltammetric signals simultaneously
Yongqing ZHANG, Jinyuan MO, Tianyao XIE, and Peixiang CAI

F37 Spline convolution in processing overlapped voltammetric peaks
Yongqing ZHANG, Jinyuan MO, Tianyao XIE, and Peixiang CAI

F39 Flow injection direct determination of tannin in tea by biamperometry
Juncai ZHANG, Chuan ZHAO, Junfeng SONG

F41 Determination of trace amounts of silver by single sweep oscillopolarography
Wang CHEN, Lijuan ZHANG, Teng ZHU

F43 The definition of the area occupied by one molecule of adsobed water at the air/solution interface at different temperatures
Boris AFANASYEV, Ekaterina ALEKSANDROVA, Olga ERONJKO

F45 Calculation of the bond energy between an adsorbed molecule of a surface-active substances(SAS) and the non-charged surface of the metal
Boris AFANASYEV, Yuliya AKULOVA, Olga YAKOVLEVA

F47 Calculation of standard free energy of the surface-active substances(SAS) adsorption on the non-charged metal surface
Boris AFANASYEV, Yuliya AKULOVA, Olga YAKOVLEVA

F49 Ionic conductivity and temperature dependence of PEO/ethylene carbonate(EC) systems
Xinming QIAN, Ningyu GU, Feng ZHAO, and Shaojun DONG

F51 Ionic conductivity calculation of polymer electrolyte using the maximum of imaginary impedance
Feng ZHAO, Xinming QIAN, Ningyu GU, and Shaojun DONG

F53 Study of electron transfer across the liquid/ice interface by scanning electrochemical microscopy
Zhiquan ZHANG, Peng SUN, Jidong GOU, and Yuanhua SHAO

F55 Investigation of ion transfer across the micro-water/nitrobenzene interface facilitated by fullerene-crown ether derivative
Bin SU, Yi YUAN, Liangbing GAN, and Yuanhua SHAO

F63 Contineous wavelet spectrum: A new concept established on the basis of contineous wavelet transform and its application to resolving and quantifying the overlapped voltammetric peaks
Shouguo WU, Lei NIE, Xiangqin LIN, Longzhen ZHENG, Hanchang ZHANG, and Lei RUI

F65 Ensembles of ultramicroelectrode fabricated by assembly of nano-colloid
Xiaoya HU, Gang XIA, Chengyin WANG, and Rong GUO

F67 Characterization environmental water using microchip based capillary electrophoresis
Xiaoling WU, Yongchun LAI, Hongyu ZHOU, Shigeru KUROSAWA, Sahori TAKEDA, and Shin-ichi WAKIDA

F69 Electrochemiluminescence behaviour of $Ru(bpy)_3^{2+}$ immobilized in polyelectrolyte-silica composite thin-films
Haiyan WANG, Guobao XU, Shaojun DONG

F71 Investigation of thermal structural changes of horseradish peroxidase by Fourier transform infrared and circular dichroism spectroscopy
Junguang JIANG, Zhenxin WANG, Changwei LIU, Dianjun LIU, Xiurong YANG, and Shaojun DONG

F73 Interaction of cationic porphyrin/DNA with lipid
Zheling ZHANG, Zhenxin WANG, Dianjun LIU, and Shaojun DONG

F75 A novel drop electrode for studying ion transfer across the water/nitrobenzene interface
Yi YUAN, Bin SU, Yuanhua SHAO

F77 A novel hydrogen peroxide biosensor combining polypyrrole membrane with sol-gel derived composite carbon as electrode materials
Guoyi ZHU, Faming TIAN

F79 Sol-gel-derived thin film electrode containing meldola blue intercalated α-zirconium phospate nanoparticles
Zhihua YANG, Peng WANG, Guoyi ZHU

F79 The electrocatalytic behavior and application of Nafion/Ni(II) film modified electrode
Ruping LIANG, Jianding QIU, Qingqi ZHAO, and Peixiang CAI

F101 Effect of chain length on surface properties of thiohydroxy carboxylic acid self-assembled monolayers
Zong DAI, Huangxian JU

F103 Li mass transfer through a Cu film during the polarization of carbon fibers deposited with the metal
Junji SUZUKI, Kyoichi SEKINE, Tsutomu TAKAMURA

F107 Tailoring of a smooth polycrystalline gold surface as an alternative substrate for electrochemical SPR and molecular self-assembly
Yongdong JIN, Xiaofeng KANG, Guangjin CHENG, and Shaojun DONG

F109 Electrochemical and spectrometric characterization of DNA multilayer films with $[Os(bpy)_2Cl]^{2+}$ containing polymer cations
Jianyun LIU, Yongdong JIN, Shaojun DONG

F111 In site capacitance measurements during electropolymerization phenol
Zhiliang CHENG, Erkang WANG, Xiurong YANG

F113 Layer-by-layer assembly of multilayer films of streptavidin and biotinylated antibody
Xiaoqiang CUI, Renjun PEI, Fan YANG, and Xiurong YANG

F115 Frequency dependent electrochemical capacitance and selective permeation of dopamine on SAM of 2-mercapto-3-N- octylthiophene on gold
Zhangquan PENG, Shaojun DONG

F117 Preparing controllable thickness inorganic salty nanofilm
Hongda WANG, Zhuang LI, Aiguo WU, Lihua YU, and Erkang WANG

F119 Using AFM to image DNA and make DNA mapping
Lihua YU, Zhuang LI, Aiguo WU, and Quanling SUO

2001-10-19 a.m. (Thursday)
Site: Corridor on 2nd floor of the Meeting Hall

F133 Electrochemical determination of DNA using an self-assembled membrane biosensor
Tuzhi PENG, Qiong CHENG

F135 ZrO_2 sol-gel immobilized amperometric biosensor for hydrogen peroxide
Dandan CHEN, Ting ZHANG, Jilie KONG, Baohong LIU, and Jiaqi DENG

F137 Detection of complement C1-inhibitor with a piezoelectric immunosensor
Li LIU, Jiming HU, Leilei WANG, Lijia LIU, and Xiaodong ZHOU

F139 Reagentless amperometric hydrogen peroxide biosensor based on sol-gel/hydrogel composite thin film
Xu CHEN, Bingquan WANG, Shaojun DONG

F141 Detection of PCR products by surface plasmon resonance
Fan YANG, Zhiliang CHENG, Xiaoqiang CUI, and Xiurong YANG

F143 Construction of horseradish peroxidase biosensor on gold-nanoparticles with sol/gel and self-assembly technologies
Jianbo JIA, Bingquan WANG, Guangjin CHENG, and Shaojun DONG

F145 Gold nanoparticle intercalation into silica gel network by self-assembly technique enhancing current response
Bei NIE, Xiurong YANG

F147 Bienzymatic amperometric biosensor for glucose
Faming TIAN, Liande ZHU, Bo XU, and Guoyi ZHU

F149 A chemiluminescence fibre-optical glucose biosensor based on co-immobilizing glucose oxidase and horseradish peroxidase in a sol-gel film
Yingxiu LI, Liande ZHU, Guoyi ZHU

F161 The use of capillary electrophoresis with conductivity detection to several anions
Yanpeng ZHENG, Tianyao XIE, Jinyuan MO

F163 Potential-resolved electrochemiluminescence of $Ru(bipy)_3^{2+}/C_2O_4^{2-}$ system on platinum electrode
Feng LI, Xiangqin LIN, Hua CUI, and Heyou HAN

F165 Potential-resolved electrochemiluminescence
Xiangqin LIN, Hua CUI

F167 Spectroelectrochemical and voltammetric studies of L-dopa
Xiaoqiang LIU, Guangjin CHENG, Shaojun DONG

F169 Capillary electrophoresis separation and amperometric detection of allopurinol and its active metabolite oxypurinol
Xiuhua SUN, Weidong CAO, Xiaoxia BAI, Xiurong YANG, and Erkang WANG

F171 End-column electrochemiluminescence detection for capillary electrophoresis
Weidong CAO, Guobao XU, Jifeng LIU, Xiurong YANG, Shaojun DONG, and Erkang WANG

F173 Investigation of DNA multilayer film formation by Fourier transform infrared spectroscopy on glassy carbon electrode
Liqiang LUO, Zhenxin WANG, Jianyun LIU, Xiurong YANG, and Shaojun DONG

F175 Electrochemiluminescent determination of glucose with a renewable sol-gel derived ceramic-carbon composite electrode
Liande ZHU, Yingxiu LI, Guoyi ZHU

F177 Investigation of the electrochemical behavior of coenzyme Q_0 at gold electrode with electrochemistry and quartz crystal microbalance
Bo XU, Faming TIAN, Liande ZHU, and Guoyi ZHU

F195 A sequence-selective DNA sensor with self-assembled membrane electrodes of time-resolved QCM
Tuzhi PENG, Shenglong ZHANG

F197 A sensitive electrochemical method for the determination of albumin
Wei SUN, Kui JIAO

F199 Spectroscopic and electrochemical studies of peroxidase catalytical oxidation mechanism of o-phenylenediamine
Kui JIAO, Guanglei CUI, Wei SUN

F201 Needle-electrochemical microsensor for in vivo measurements of oxygen
Weiya XU, Wentao MA, Kaiyang LI, Yu SONG, Lan ZHAO, Jiming HU, Hongyi LI, and Lianxin CAO

F203 Determination of uric acid (UA) in biological samples on the activated pencil lead electrode
M.R.MAJIDA, S.M.GOLABI, E. ALIPOUR

F205 Study of self-assembled HBsAb monolayer immunoelectrode and its application to HBsAg determination
Jianding QIU, Ruping LIANG, Xiaoyong ZOU, and Peixiang CAI

F207 Study on adsorptive voltammetry for determination of micronomicin in the presence of isobutylaldehyde
Weimin MO, Shenghui LIU, Changxin LI, Zuguang LI, and Yadong WANG

F209 Determination of a new anticancer drug of heterocyclic thiosemicarbazones by differential pulse adsorptive stripping voltammetry
Shenghui LIU, Weimin MO, Changxin LI

F121 Detection of mouse-IgG using capacitance measurement
Bin QI, Xiurong YANG

F213 Electrocatalytic oxidation of ascorbic acid by norepinephrine embedded in lipid cast film at glassy carbon electrode
Xiaojun HAN, Jilin TANG, Jianguo WANG, and Erkang WANG

F215 Electrocatalytic oxidation of ascorbic acid by rutin at a lipid film modified glassy carbon electrode
Jilin TANG, Zhengyan WU, Jianguo WANG, and Erkang WANG

F217 Study of ion channel behaviors of DNA-incorporated BLM
Yuehong TONG, Zhengyan WU, Junguang JIANG, Yonghai SONG, Jilin TANG, Jianguo WANG, Xiaojun HAN, Yuanhua SHAO, Bailin ZHANG, and Erkang WANG

F219 Enzymes & electrons: Application of electroanalysis and electrochemical technology to environmentally benign pulp bleaching
Donal LEECH, Alan SHERIDAN, Nathalie LeGRAND, Dominic ROCHEFORT, Robert BOURBONNAIS, and Michael PAICE

F221 Study on hydrolysis rate constants of raffinose by capillary electrophoresis with amperometric detection
Xianghua DING, Yuhua CAO, Qingcui CHU, and Jiannong YE

F213 A sensitive, dip-and-read enzyme test strip for the quantitative determination of inorganic and organic mercury in aqueous samples
Guoqing SHI, Guibin JIANG, Jiemin LIU, and Lina LIANG

F225 Evaluation of the antioxidant activities of flavonoids and flavonoid-containing beverages from their oxidation potentials
Bin YANG, Kensuke ARAI, Sanae OHTSUKI, and Fumiyo KUSU

F227 Ionic conductivity of a new comblike polymer electrolyte
Li QI, Shaojun DONG

MAP OF THE FRIENDSHIP HOTEL COMPLEX
Meeting Area
Main Entrance of the Friendship Hotel
Grand Building
Building NO.1
Money Exchange
Front Desk
Friendship store
Su Yuan Restaurant
Ya Yuan Restaurant
Post Office
S
Yi Yuan Restaurant
Swimming Pool
Tennis Court
Club
Clinic
Building NO.4 (Yi Bin Lou)
Building NO.2 (Jing Bin Lou)
Friendship Palace
Gate
Building NO.5 (You Bin Lou)
Building NO.3 (Ying Bin Lou)
Conference Site
Gate
Meeting Hall
Xiang Yuan Restaurant
Northern Entrance of the Friendship Hotel

ELECTRON MICROSCOPY
A1(ROOM 101)
A2(ROOM 201)

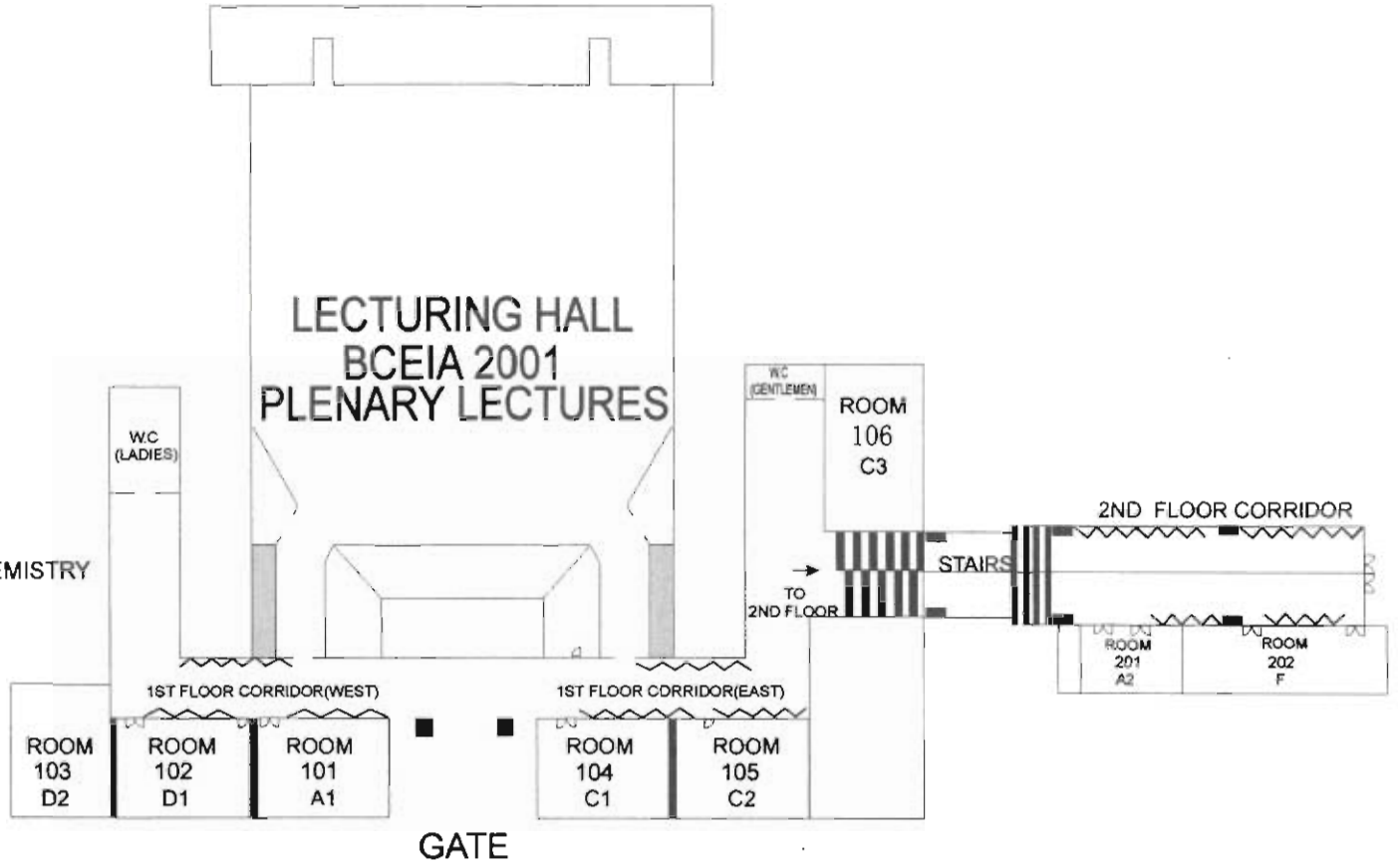
MASS SPECTROMETRY
B1 ROOM No.2
B2 ROOM No.3

SPECTROSCOPY
C1(ROOM 104)
C2(ROOM 105)
C3(ROOM 106)

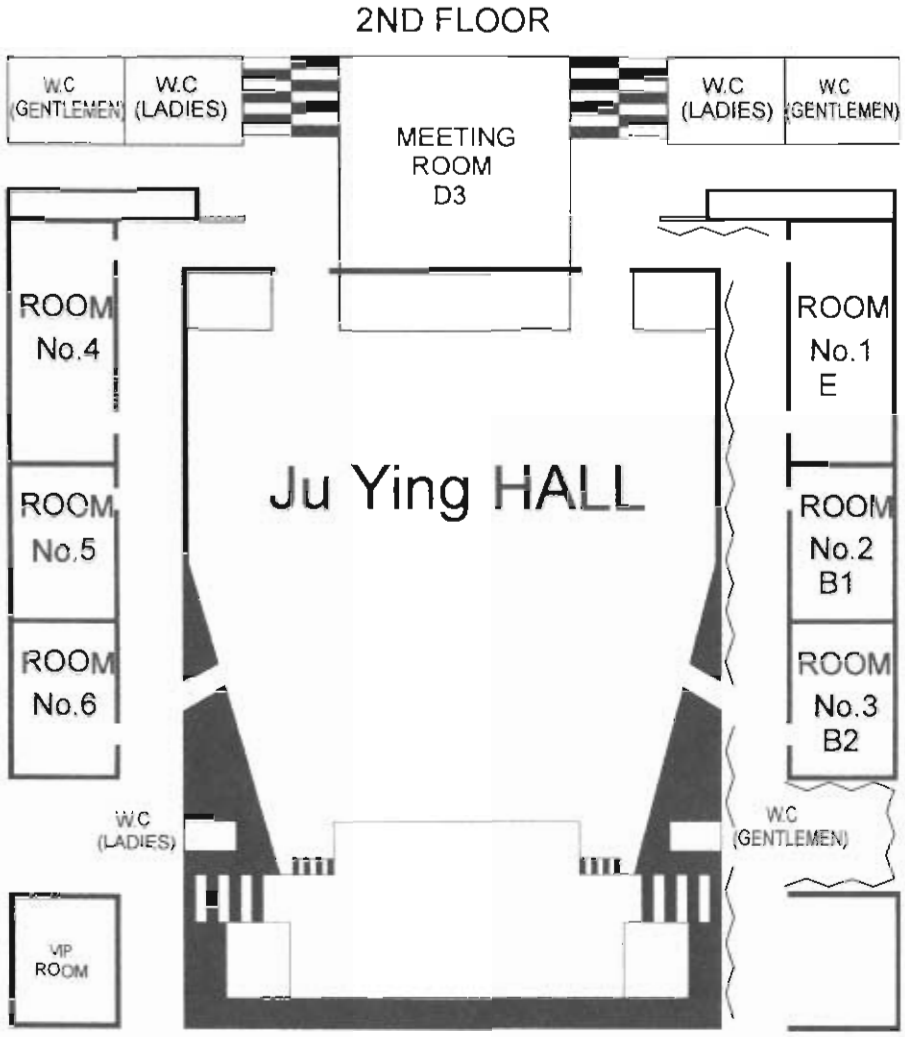
CHROMATOGRAPHY
D1(ROOM 102)
D2(ROOM 103)
D3 MEETING ROOM

MAGNETIC RESONANCE
E ROOM No.1

ELECTROANALYTICAL CHEMISTRY
F (ROOM 202)



FLOOR PLAN (2nd FLOOR)
OF
THE MEETING HALL



ELECTRON MICROSCOPY
A1(ROOM 101)
A2(ROOM 201)

MASS SPECTROMETRY
B1 ROOM No.2
B2 ROOM No.3

SPECTROSCOPY
C1(ROOM 104)
C2(ROOM 105)
C3(ROOM 106)

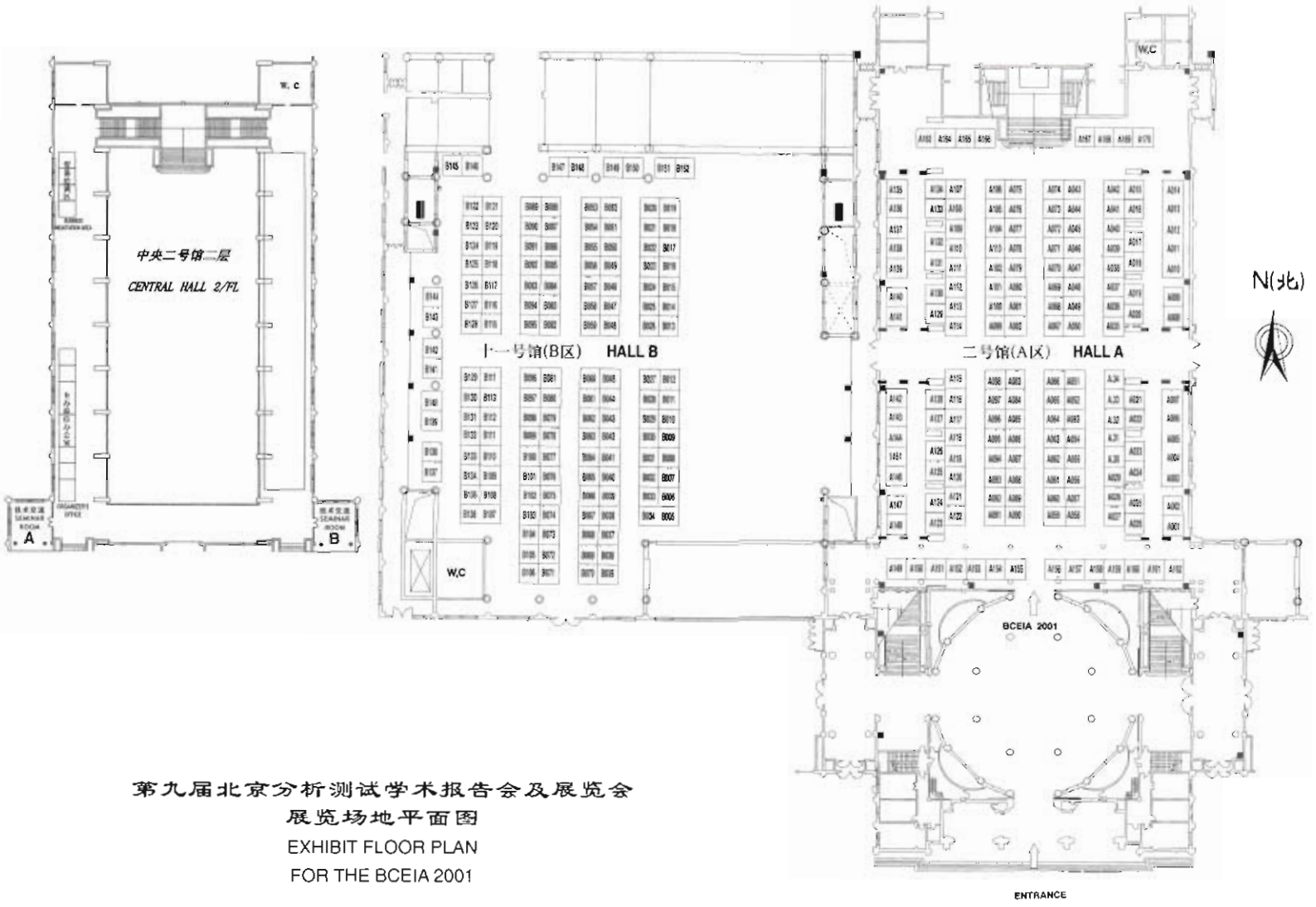
CHROMATOGRAPHY
D1(ROOM 102)
D2(ROOM 103)
D3 MEETING ROOM

MAGNETIC RESONANCE
E ROOM No.1

ELECTROANALYTICAL CHEMISTRY
F (ROOM 202)

POSTER BOARDS

2nd FLOOR OF THE FRIENDSHIP PALACE



第九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 2001

INDEX OF EXHIBITORS

COMPANY NAME:	BOOTH NO.
1. ANALYTIK JENA AG	A113, A114
2. ALLTECH SCIENTIFIC (CHINA) LIMITED	B017
3. AMPLE TECHNOLOGY CENTER	A035, A036
4. AKZO NOBEL	A165
5. AUTOMATIC SCIENCE (TIANJIN) INSTRUMENT CO., LTD.	B150
6. APPLIED BIOSYSTEMS	A024
7. AC POWER CORP.	B053
8. AGILENT TECHNOLOGIES CO., LTD. (CHINA)	A088, A089, A090, A091, A092
9. AGILENT TECHNOLOGIES SHANGHAI ANALYTICAL PRODUCTS CO., LTD	A093
10. AMINOSYS AG	B005
11. AWS MECHANICAL & ELECTRICAL TECHNOLOGY DEVELOP CO.	B006
12. BEIJING RAKON SCIENCE & TECHNOLOGY LTD.	A115
13. BEIJING GOLDEN WAY SCIENTIFIC CO., LTD.	A029
14. BEIJING HAIGUANG INSTRUMENT CO.	A105, A106, A075, A076
15. BEIJING ORIENTAL SCIENCE & TECHNOLOGY DEVELOPMENT LTD. (INTERNATIONAL)	B046, B059
16. BEIJING PURKINJE GENERAL INSTRUMENT CO, LTD.	A083, A084, A085, A096, A097, A098
17. BEIJING TIANJING UNIVERSITY SPECTROSCOPY TECHNOLOGY LTD.CO.	B027
18. BEIJING EPOCH ELECTRONIC INSTRUMENT CO.	A027, A028
19. BEIJING BEIFEN RUILI ANALYTICAL INSTRUMENT (GROUP) CO., LTD.	B082, B083, B094, B095
20. BEIJING TUOPU ANALYTICAL INSTRUMENT CO.LTD	A111
21. BEIJING WEI YE YUAN GUAN TECHNOLOGY & TRADING CO., LTD	A166
22. BEIJING GEOLOGICAL INSTRUMENT INSTITUTE	A004, A005, A006, A007
23. BEIJING ORIENTAL HOPE TECHNOLOGIES INC.	A170
24. BEIJING HANGSENG TECHNOLOGY CO., LTD.	A149, A150, A151
25. BEIJING ORIENTAL SCIENCE &. TECHNOLOGY DEVELOPMENT CO., LTD.	A169
26. BEIJING MICHEM SCIENCE & TRADE GROUP	A146

27. BEIJING VITAL INSTRUMENT CO., LTD/
JILIN UNIVERSITY-LITTLE SWAN INSTRUMENT CO., LTD A135, A136, A137, A138, A139

28. BRUKER AXS GMBH A054, A055

29. BRUKER BIOSPIN A056, A057

30. BRUKER DALTONICS INC. A058

31. BRUKER OPTICS INC. A059, A060

32. BECKMAN COULTER HONG KONG LTD. A147, A148

33. BEIJING CHUANGMEI WEIYE TECHNOLOGY LIMITED COMPANY B067

34. BEIJING SHINE TECHNOLOGY CO., LTD. B061, A133

35. BEIJING HAIDIAN CHAOSHENG TECHNOLOGY CO. A130

36. BEIJING SARTORIUS INSTRUMENT & SYSTEM ENGINEERING CO., LTD. B060, B045

37. BEIJING HANNA SCIENCE & TECHNOLOGY CO., LTD. A025

38. BEIJING KANGLIN SCIENCE & TECHNOLOGY CO., LTD. B019

39. BEIJING NCS ANALYTICAL INSTRUMENTS CO., LTD. A031, A032, A033, A034

40. BEIJING SHUGUANG SPECIAL GLASS INSTRUMENT FACTORY A144

41. BEIJING EAST SUNLAND S & T CO., LTD. B023

42. CHANCE INTERNATIONAL, LTD. B020

43. CAMAG CHINA SUPPORTING UNIT LTD. A053

44. COLE-PARMER INSTRUMENT COMPANY B018

45. CHINA CHROMATOGRAPHY WEB B008

46. CHINA NATIONNAL MEDICINES GROUP SHANGHAI CHEMICAL REAGENTS COMPANY B097

47. CHINA SOUTHEAST SCIENTIFIC EQUIPMENT & SERVICE CORPORATION B010

48. CHINA NATIONAL SCIENTIFIC INSTRUMENTS & MATERIALS IMPORT/EXPORT CORPORATION B035, B036, B037

49. DALIAN ELITE ANALYTICAL INSTRUMENTS CO., LTD. B056, B057

50. DIKMA TECHNOLOGIES LTD. A131, A132

51. DALIAN LABTEK LABORATORY EQUIPMENTS CO., LTD. B154, B152

52. DALIAN HUAYANG SCIENTIFIC INSTRUMENT CO., LTD. B051, B052, B054

53. DIONEX CHINA LIMITED. B022

54. DIONEX CHINA LIMITED (BEIJING) B050, B055

55. ELEMENTAR ANALYSENSYSTEME GMBH A126

56. EURO TECH (FAR EAST) LTD. A001, A002, A162

57. EVERISE TECH & TRADE LTD (A MEMBER OF FRIEND TECH) A143

58. EDAX INC. A163, A164

59. FRITSCH GMBH B034

60. FEI COMPANY A102, A079
PHILIPS ELECTRONICS CHINA GROUP A078, A103

61. GAT BEIJING LIMITED A145

62. GATAN INC. A157

63. HUA-YEE INSTRUMENT LTD. A003

64. HUA YUE ENTERPRISE CO. B062

65. HUAYUE LAB FURNITURE & EQUIPMENT COMPANY LTD. B063

66. JOBIN YVON S.A. HORIBA GROUP A156

67. JELO LTD. A116, A128

68. J & J INDUSTRY A095

69. JINAN TSING CHUAN TECHNOLOGY CO. LTD A140

70. KNAUER COMPANY GMBH A023

71. KENT TECHNOLOGY CO, LTD A127

72. LEEMAN LABS INC. B011, B012

73. LEICA MICROSYSTEMS LTD A086, A087

74. LONGKOU CITY XIANKE INSTREUMENT CO. A140

75. LUMEX LTD. A062

76. METROHM CHINA LTD. A107

77. MILLIPORE CHINA LTD. A108

78. METTLER-TOLEDO INSTUMENTS (SHANGHAI) CO., LTD. A153, A154

79. MILESTONE S.R.L. A026

80. NEWFORD TECH & TRADE LTD. A109, A110

81. NETZSCH-GERATEBAU Gmbh A112

82. NATIONAL ANALYSIS CENTER FOR IRON & STEEL A021, A022

83. NINGBO GRANT REFRIGERATION EQUIPMENT MANUFACTURING CO., LTD B048

84. OBT CO., LTD B028, B029, B030, B031

85. OXFORD INSTRUMENTS A037

86. PACIFIC TECHNOLOGY CORPORATION B014

87. PERKIN ELMER LLC A051, A052, A063-A066

88. PERKINELMER INSTRUMENTS PRINCETON APPLIED RESEARCH A094

89. RESEARCH INSTITUTE OF PETROLEUM PROCESSINGSINOPEC/
SHENZHEN INCE INSTRUMENT INDUSTRIAL CO., LTD./ BEIJING INCE INSTRUMENT LTD. **B026, B013**

90. RIGAKU INTERNATIONAL CORPORATION **A123, A124**

91. RESONANCE INSTRUMENTS LTD. **B070**

92. SIBER HEGNER CHINA **A141**

93. SOFT IMAGING SYSTEM GMBH **A167, A168**

94. SHIMADZU CORPORATION **A048-A050, A067-A069, A080-A082, A099-A101**

95. SHANGHAI LENGGUANG TECHNOLOGY CO., LTD. **A158, A159**

96. STATE GENERAL ADMINISTRATION OF THE PEOPLE'S REPUBLIC OF CHINA FOR QUALITY SUPERVISION AND INSPECTION AND QUARANTINE NATIONAL RESEARCH CENTER FOR CRM'S **B032**

97. SHOWA DENKO K.K. **A142**

98. SCHMIDT BIOMEDGROUP (H.K.) LIMITED **B009**

99. SPECTRO ANALYTICAL INSTRUMENTS Gmbh **A077, A104**

100. SHANGHAI PRECISION & SCIENTIFIC INSTRUMENT CO., LTD **A010, A011, A012, A013, A014**

101. SHANDONG INSTITUTE OF CHEMICAL INDUSTRY/SHANDONG TECHNICAL SERVICE CENTER OF SHIMADZU ANALYTICAL INSTRUMENT **B015**

102. SCIENTIFIC INSTRUMENT SOFTWARE COMPANY **B129, B130**

103. SHANGHAI SPECTRUM INSTRUMENTS CO., LTD. **B068**

104. SHENYANG YITONG ANALYTICAL INSTRUMENT CO., LTD **B069**

105. SUNYEAR SCIENTIFIC INC. (SHANGHAI) **B007**

106. SCIENCE AND TECHNOLOGY COMMISSION OF SHANGHAI MUNICIPALITY **B081, B096**

107. SHANGHAI SCIENTIFIC INSTRUMENTS & MATERIALS CO., LTD. **B080**

108. TWINSON INTERNATIONAL LIMITED **B024, B025**

109. THERMO ELEMENTAL **A161**

110. TOKYO RIKAKIKAI CO., LTD **B113, B114**

111. TC INSTRUMENTS LTD. **A160**

112. TIANJIN HI-TECH SCIENTIFIC INSTRUMENT CO., LTD. **B016**

113. TIANJIN OPTICAL INSTRUMENT FACTORY **B021**

114. TSP CORPORATION **B043**

115. TECHCOMP LIMITED **A038, A039, A040, A041, A042**

116. THERMO FINNIGAN CO. **A152**

117. SHANGHAI TECHCOMP INSTRUMENT LTD. A070-A074
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118. TIANJIN TURNER SCIENCE INSTRUMENT CO., LTD. B049

119. UNIMICRO (TIANJIN) TCHNOLOGIES CO., LTD. B015

120. UNIVERSAL ANALYTICAL & TESTING INSTRUMENTS LTD. A120, A121, A122

121. VARIAN. INC. A117, A118, A119

122. VAST TIME CORPORATION B047

123. WEBCHANNEL TECHNOLOGY COPORATION A129

124. WATERS CHINA LIMITED B0147, B0148

125. WHOLE WAY COMPANY A030

126. WESTON SCIENTIFIC A125

127. WENLING FULI ANALYTICAL INSTRUMENT CO., LTD. B058

128. WWW.INSTRUMENT.COM.CN B149

129. ZHEJIANG UNIVERSITY STAR INFORMATION TECHNICAL CO. LTD. B044

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THE TENTH BEIJING CONFERENCE AND EXHIBITION ON INSTRUMENTAL ANALYSIS

WILL BE HELD

IN OCT. 2003

IN BEIJING

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