The 4th Asia-Pacific Winter Conference on Plasma Spectrochemistry (2010 APWC)

SCIENTIFIC PROGRAM

Friday, November 26, 2010

Location: Wangjiang Hotel

10:00 -21:00	Whole day for on-site registration/hotel check in	Wufu Building, Wangjiang Hotel 望江宾馆五福楼
12:00- 13:30	Lunch	Songtao Restaurant, Wangjiang Hotel 望江宾馆松涛厅
18:30-19:30	Dinner	Songtao Restaurant, Wangjiang Hotel 望江宾馆松涛厅

Saturday, November 27, 2010

Location: Juying Conference Hall, Wangjiang Hotel（望江宾馆聚英厅）

SECTION I **Chairman: Xiandeng (Dan) Hou**		
8:30-8:50		**(1) OPENING SPEECH** **Benli Huang** (Xiamen University, China) **(2) WELCOME SPEECH** (Sichuan University, China)
8:50-9:10		**WINTER CONFERENCE ON PLASMA SPECTROCHEMISTRY: THE BACKGROUND** Ramon M. Barnes ICP Information Newsletter, USA
SECTION II **Chairman: Naoki Furuta**		
9:10-9:50	PL-1	**NOVEL MASS SPECTROMETERS FOR PLASMA SPECTROCHEMISTRY** Gary M. Hieftje Department of Chemistry, Indiana University, USA
9:50-10:30	PL-2	**ICP-MS AND NUCLEAR HYBRID TECHNIQUES FOR NANOTOXICOLOGY** Zhifang Chai Institute of High Energy Physics, Chinese Academy of Sciences, China

10:30-10:45		**Coffee Break**
		SECTION III **Chairman: Ryszard Lobinski, Pengyuan Yang**
10:45-11:05	**KN-1**	**A CHEMICAL ETCHING STRATEGY TO GENERATE "ION-IMPRINTED" SITES ON THE SURFACE OF QUANTUM DOTS FOR SELECTIVE FLUORESCENCE TURN-ON DETECTING OF METAL IONS** Xiuping Yan College of Chemistry, Nankai University, China
11:05-11:25	**KN-2**	**MEASURING Mn IN WHOLE BLOOD AND URINE BY Q-ICP-MS: STANDARD OR DRC MODE?** Patrick J. Parsons Wadsworth Center, New York State Department of Health, USA
11:25-11:45	**KN-3**	**THE DETERMINATION OF TRACE ELEMENTS IN SIZE-FRACTIONATED MARINE PARTICLES USING MAGNETIC SECTOR ICP-MS** Ashley T. Townsend Central Science Laboratory, University of Tasmania, Australia
11:45-12:10	**CO-1**	**INDUCTIVELY COUPLED PLASMAS FOR ELEMENTAL ANALYSIS: AN OVERVIEW** Meike Hamester Thermo Fisher Scientific
12:10-13:30		**Lunch** (Songtao Restaurant, Wangjiang Hotel 望江宾馆松涛厅)
		SECTION IV **Chairman: Gary M. Hieftje, Guibin Jiang**
13:30-13:45		**AWARD PRESENTATION**
13:45-14:25	**PL-3**	**BIOLOGICAL APPLICATION OF ICP-MS WITH SINGLE-PARTICLE MODE** Xinrong Zhang Department of Chemistry, Tsinghua University, China
14:25-14:45	**KN-4**	**LASER PLUME SPECTROSCOPY FOR ULTRASENSITIVE MULTI-ELEMENTAL ANALYSIS** Nai Ho Cheung Department of Physics, Hong Kong Baptist University, China
14:45-15:05	**KN-5**	**ATOMIC SPECTROMETRIC STUDY OF THE SOLUBILITY OF METAL CONTAMINANTS IN CARBON NANOTUBES (CNTS)** Karl X. Yang Wadsworth Center, New York State Department of Health, USA
15:05-15:25	**KN-6**	**DETERMINATION OF ARSENIC AND SELENIUM COMPOUNDS IN FOODSTUFFS USING LC AND CE ICP-MS**

		Shiuh-Jen Jiang Department of Chemistry , National Sun Yat-sen University, Taiwan, China
15:25-15:45		**Coffee Break**
		SECTION V **Chairman: Jianhua Wang, Joanna Szpunar**
15:45-16:05	**KN-7**	**RECENT DEVELOPMENTS IN APPLICATIONS OF MULTICOLLECTOR ICP-MS AT CHEMICAL METROLOGY, INMS, NRC** Lu Yang Institute for National Measurement Standards, National Research Council Canada, Canada
16:05-16:25	**KN-8**	**MICROEXTRACTION TECHNIQUES COMBINED WITH ICP-MS FOR BIOMEDICAL ANALYSIS** Bin Hu Department of Chemistry, Wuhan University, China
16:25-16:45	**KN-9**	**PROTEIN QUANTIFICATION FROM PEPTIDES QUANTIFICATION BY SULFUR DETERMINATION WITH USING NANO HPLC-ICPMS** Yoshinari Suzuki Department of Applied Chemistry, Chuo University, Japan
16:45-17:05	**KN-10**	**ON-LINE CHIP-BASED DEVICES COUPLING WITH ICP-MS FOR DETERMINATION OF TRACE ELEMENTS AND THEIR SPECIES** Yuh-Chang Sun Department of Biomedical Engineering and Environmental Sciences, National Tsing Hua University, Taiwan, China
17:05-17:25	**KN-11**	**IDENTIFICATION OF METAL-BINDING PROTEINS BY METALLOPROTEOMICS AND METALLOMICS** Hongzhe Sun Department of Chemistry, The University of Hong Kong, China
17:25-17:45	**IL-1**	**HIGH IRRADIANCE LASER IONIZATION TIME-OF-FLIGHT MASS SPECTROMETRY** Wei Hang College of Chemistry and Chemical Engineering, Xiamen University, China
17:45-18:05	**IL-2**	**ANALYTICAL SCIENCE AT THE ROYAL SOCIETY OF CHEMISTRY** May Copsey Royal Society of Chemistry, UK
18:30-20:30		**Thermo Fisher Welcome Banquet** (Songtao Restaurant, Wangjiang Hotel 望江宾馆松涛厅)

Sunday, November 28, 2010

Location: Juying Conference Hall, Wangjiang Hotel (望江宾馆聚英厅)

SECTION I **Chairman: Xinrong Zhang, Steven J. Ray**		
8:30-9:10	PL-4	**ICP-MS DETECTION IN CHROMATOGRAPHY AND ELECTROPHORESIS: THE ELECTROSPRAY MS CHALLENGE** Ryszard Lobinski Laboratoire de Chimie Analytique Bio-inorganique et Environnement (LCABIE), France
9:10-9:30	KN-12	**A ROAD TO METALLOMICS AND WHERE?** Hiroki Haraguchi Association of International Research Initiatives for Environmental Studies, Japan
9:30-9:50	KN-13	**ENVIRONMENTAL METALLOMICS: GLOBAL HEALTH CRISIS CAUSED BY MULTI-METAL CONTAMINATION OF DRINKING WATER** Bibudhendra Sarkar University of Toronto and The Hospital for Sick Children, Canada
9:50-10:10	KN-14	**ICP MS IN SELENOPROTEOMICS AND SELENOMETABOLOMICS** Joanna Szpunar CNRS/University of Pau, Laboratoire de Chimie Analytique Bio-inorganique et Environnement (LCABIE), France
10:10-10:30		**Coffee Break**
SECTION II **Chairman: Yong-Ill Lee, Bin Hu**		
10:30-10:50	KN-15	**PLASMAS IN ANALYTICAL CHEMISTRY** Yixiang Duan Research Center of Analytical Instrumentation, Sichuan University, China
10:50-11:10	IL-3	**DETERMINATION OF PLATINUM GROUP ELEMENTS BY ICP-MS USING AN IMPROVED DIGESTION TECHNIQUE** Liang Qi Institute of Geochemistry, Chinese Academy of Sciences, China
11:10-11:30	IL-4	**METABOLIC STUDY FOR THE INTERPRETATION OF TOXICITY OF MERCURY AND CHROMIUM BY USING HPLC-ICP-MS** Weiyue Feng Institute of High Energy Physics, Chinese Academy of Sciences, China
11:30-11:50	CO-2	**HIGH RESOLUTION SEQUENTIAL ICP-AES ANALYSIS IN THE RARE EARTH INDUSTRY** Yanhong Hou Shimadzu International Trading (Shanghai) Co. Limited Beijing Branch, China
11:50-12:05	CO-3	**OPTIMIZATION OF A QUADRUPOLE ICP-MS COUPLED WITH A ARF**

		LASER UNIT FOR ELEMENT MAPPING Yi Hu Advanced Analytical Centre, James Cook University, Australia
12:05-13:30		**Lunch** (Songtao Restaurant, Wangjiang Hotel 望江宾馆松涛厅)
SECTION III **Chairman: Xiuping Yan, Heung Bin Lim**		
13:30-14:10	**PL-5**	**ICP-MS: A NEW TOOL FOR PROTEOMICS** Norbert Jakubowski BAM – Federal Institute for Materials Research and Testing, Germany
14:10-14:30	**KN-16**	**LASER-INDUCED BREAKDOWN SPECTROSCOPY WITH POWERCHIP – LASER** Suh-Jen Jane Tsai Department of Applied Chemistry, Providence University, Taiwan, China
14:30-14:50	**KN-17**	**MINIATURIZATION OF ATOMIC SPECTROMETER WITH DIELECTRIC BARRIER DISCHARGE AS ATOMIZATION/EXCITATION SOURCE** Jianhua Wang Research Center for Analytical Sciences, Northeastern University, China
14:50-15:10	**IL-5**	**ON LINE HIGH-EFFICIENT VAPOR GENERATION OF OSMIUM BASED ON UV INDUCED ADVANCED OXIDATION PROCESS FOR THE DETERMINATION BY ICP-TOF-MS** Zhenli Zhu China University of Geosciences, China
15:10-15:30	**CO-4**	**UNDERSTANDING AND EXPERIENCE WITH THE NEXT GENERATION ICP-MS** Ching Tung Yong PerkinElmer Singapore Pte Ltd, Singapore
15:30-15:50		**Coffee Break**
SECTION IV **Chairman: Norbert Jakubowski, Sichun Zhang**		
15:50-16:10	**KN-18**	**PLASMONIC NANOPARTICLES FOR SENSING** Chengzhi Huang College of Pharmacuetical Science, Southwest University, China
16:10-16:30	**KN-19**	**ICP-MS SINGLE-PARTICLE ANALYSIS USING POLYDISPERSE PARTICLES AS CALIBRATION STANDARDS** Wing-Tat Chan Department of Chemistry, University of Hong Kong, China
16:30-16:50	**IL-6**	**SEPARATION AND ACCURATE DETERMINATION OF SELENIUM SPECIES WITH ORC HPLC-ICPMS** Yong-Nam Pak

		Department of Chemistry, Korea National University of Education, Korea
16:50-17:05	CO-5	**SPECIFIC DETERMINATION OF SELENOMETHIONINE, SELENOCYSTEINE AND INORGANIC SELENIUM IN FOODSTUFFS BY HPLC–ICP MS** Katarzyna Bierla CNRS/University of Pau, Laboratoire de Chimie Analytique Bio-inorganique et Environnement (LCABIE), France
17:05-17:20	CO-6	**THE POTENTIAL FOR ISOTOPIC ANALYSES USING A RAPID SCANNING MAGNETIC SECTOR ICP-MS** John Cantle Nu Instruments, UK
17:20-17:35	CO-7	**ADVANCEMENTS IN ICP SPECTROSCOPY USING SIMULTANEOUS SEMI CONDUCTOR DETECTION TECHNOLOGY** Olaf Schulz Spectro Analytical Instruments, Germany
19:00-21:00	**Shimadzu Reception Dinner** Shunxin Tea House, Chengdu New International Convention & Exposition Center 成都新国际会展中心顺心茶馆	

Time: Monday, November 29, 2010

08:30-18:00	**Agilent Day** One day excursion and you may choose one itinerary on November 26. Itinerary A: Dujiangyan（都江堰）and Sanxingdui Museum（三星堆）Itinerary B: Temple of Marquis Wu（武侯祠）and Chengdu Giant Panda Research Base（成都熊猫基地）
19:30-21:30	**PerkinElmer Night** (Songtao Restaurant, Wangjiang Hotel　望江宾馆松涛厅)

Tuesday, November 30, 2010

Location: Juying Conference Hall, Wangjiang Hotel (望江宾馆聚英厅)

SECTION I **Chairman: Kazuaki Wagatsuma, Suh-Jen Jane Tsai**		
8:30-8:50	KN-20	**RARE EARTH ELEMENTS (REES) CYCLE IN THE ENVIRONMENT - A POSITIVE ANOMALY OF EUROPIUM, GADOLINIUM AND TERBIUM –** Naoki Furuta Department of Applied Chemistry, Chuo University, Japan
8:50-9:10	IL-7	**BIO APPLICATION OF MICROARRAY CHIP IN HARMONY WITH LASER ABLATION ICP-MS** Heung Bin Lim Department of Chemistry, Dankook University, Korea
9:10-9:30	IL-8	**SLURRY NEBULIZATION ICP SPECTROMETRY FOR THE ANALYSIS OF ADVANCED CERAMIC MATERIALS** Zheng Wang Shanghai Institute of Ceramics, Chinese Academy of Sciences, China
9:30-9:50	IL-9	**PHOTOCHEMICAL VAPOR GENERATION FOR ANALYTICAL ATOMIC SPECTROMETRY** Chengbin Zheng College of Chemistry, Sichuan University, China
9:50-10:10	IL-10	**APPLICATION OF IDMS IN THE CERTIFICATION OF CRMS AND IN SUPPORT OF INTERNATIONAL COMPARISON PROJECT** Hongmei Li Division of Metrology in Chemistry, National Institute of Metrology, China.
10:10-10:25	**Coffee Break**	
SECTION II **Chairman: Wei Hang, Yoshinari Suzuki**		
10:25-10:45	KN-21	**GLOW DISCHARGE EXCITATION AND IONIZATION SOURCES IN ATOMIC AND MOLECULAR SPECTROSCOPY** Steven J. Ray Department of Chemistry, Indiana University, USA
10:45-11:05	KN-22	**SPATIALLY-RESOLVED OBSERVATION OF THE EXCITATION TEMPERATURE IN A GLOW DISCHARGE PLASMA FOR ATOMIC EMISSION SPECTROMETRY** Kazuaki Wagatsuma Institute for Materials Research, Tohoku University, Japan
11:05-11:20	CO-8	**SOLUTION CATHODE GLOW DISCHARGE INDUCED VAPOR GENERATION OF MERCURY FOR SPECIATION BY HPLC-AFS** Qian He China University of Geosciences, China

11:20-11:35	CO-9	**DETERMINATION OF TRACE AMOUNTS OF CADMIUM AND LEAD IN SAUCE BY ICP-AES AFTER REMOVAL OF HIGH SALT MATRIX WITH CHELATED RESIN** Guixiang Yang Shimadzu International Trading (Shanghai) Co. Limited Beijing Branch, China
11:35-11:50	CO-10	**ANTHROPOGENIC RADIONUCLIDES IN YANGTZE RIVER ESTUARY AND THE ENVIRONMENTAL IMPLICATIONS** Zhiyong Liu The Key Lab of Ministry of Education of Coast and Island Development, Nanjing University, China
11:50-12:05	CO-11	**RAPID DETECTION OF URANIUM BY EXTRACTIVE ELECTROSPRAY IONIZATION MASS SPECTROMETRY** Huanwen Chen East China Institute of Technology, China
12:05-13:30	**Lunch** (Songtao Restaurant, Wangjiang Hotel 望江宾馆松涛厅)	
SECTION III **Chairman: Patrick J. Parsons, Yixiang Duan**		
13:30-13:50	KN-23	**ARSENIC SPECIATION AND INTERACTION WITH PROTEINS** X. Chris Le Faculty of Medicine and Dentistry, University of Alberta, Canada
13:50-14:10	KN-24	**EVALUATION OF LOW-PRESSURE INDUCTIVELY COUPLED PLASMA SPECTROMETRY FOR TRACE ELEMENTAL ANALYSIS** Yong-Ill Lee Anastro Laboratory, Department of Chemistry, Changwon National University, Korea
14:10-14:25	CO-12	**DEVELOPMENT AND APPLICATION OF SEC-UV-ICP-MS METHOD FOR STUDYING ARSENITE-DOM COMPLEXATION** Guangliang Liu Department of Chemistry & Biochemistry, Florida International University, USA
14:25-14:40	CO-13	**UV INDUCED ADVANCED OXIDATION PROCESS FOR THE DEGRADATION OF ORGANIC MERCURY AND ITS APPLICATION TO THE SPECIATION ANALYSIS OF MERCURY BY HPLC-CV-AFS** Zhifu Liu China University of Geosciences, China
14:40-14:55	CO-14	**SIMULTANEOUS MULTI-ELEMENT ANALYSIS OF HIGH MATRIX FOOD SAMPLES BY ICP-MS** Jianmin Chen PerkinElmer, Inc., USA
14:55-15:10	CO-15	**ASCORBIC ACID INDUCED ENHANCEMENT OF ROOM TEMPERATURE PHOSPHORESCENCE OF SODIUM TRIPOLYPHOSPHATE-CAPPED MN-DOPED ZNS QUANTUM DOTS: MECHANISM AND BIOPROBE APPLICATION**

		Hefang Wang Department of Chemistry, Nankai University, China
15:10-15:30		**Coffee Break**
SECTION IV **Chairman: Chengzhi Huang, Lu Yang**		
15:30-15:50	**KN-25**	**APPLICATION OF SECTOR-FIELD ICP-MS IN RADIOECOLOGICALAND ENVIRONMENTAL RADIOACTIVITY STUDIES** Jian Zheng National Institute of Radiological Sciences, Japan
15:50-16:10	**IL-11**	**SPECIATION OF MERCURY IN LIQUID COSMETIC SAMPLES BY IONIC LIQUID BASED DISPERSIVE LIQUID-LIQUID MICROEXTRACTION COMBINED WITH HIGH-PERFORMANCE LIQUID CHROMATOGRAPHY-INDUCTIVELY COUPLED PLASMA MASS SPECTROMETRY** Taicheng Duan Changchun Institute of Applied Chemistry, Chinese Academy of Science, China
16:10-16:25	**CO-16**	**DIRECT ANALYSIS OF NANOMETER LAYERS: GLOW DISCHARGE MASS SPECTROMETRY AS A POSSIBLE COMPLEMENT TO SIMS** Jorge Pisonero Department of Physics, University of Oviedo, Spain
16:25-16:40	**CO-17**	**PHOTOACOUCTIC MONITORING OF THE MASS REMOVED IN PULSED LASER ABLATION** Yue Cai Department of Physics, Hong Kong Baptist University, China
16:40-16:55	**CO-18**	**LASER-EXCITED ATOMIC FLUORESCENCE OF DESORBED PLUME** Po Chun Chu Department of Physics, Hong Kong Baptist University, China
16:55-17:30		**CLOSING CEREMONY** Qiuquan Wang College of Chemistry and Chemical Engineering, Xiamen University
18:00-20:00		**Dinner** (Songtao Restaurant, Wangjiang Hotel 望江宾馆松涛厅)

Agilent TECHNOLOGY SEMINAR

Saturday, November 27, 2010

Location: International Conference Hall, Wangjiang Hotel（望江宾馆国际会议厅）

15:25-16:25	**ICP-MS DEVELOPMENT AT AGILENT TECHNOLOGIES –INNOVATION FOR OVER 20 YEARS** Steven Wilbur Senior ICPMS Application Chemist of Agilent Technologies
	LATEST ICPMS APPLICATION FOR FOOD, ENVIRONMENTAL AND PHARMACEUTICAL SAMPLE ANALYSIS Yuhong Chen Application Engineer of Agilent Technologies

POSTER PRESENTATION

Time: Sunday, November 28, 2010

Time: Location: International Conference Hall, Wangjiang Hotel（望江宾馆国际会议厅）

Poster size: 90 cm (width) * 120 cm (height)

P1	**METALLOMES AND METALLOMICS** Ryszard Lobinski,[1] J. Sabine Becker,[2] Hiroki Haraguchi,[3] and Bibundhendra Sarkar[4] 1. CNRS, Laboratoire de Chimie Analytique Bio-inorganique et Environnement, France, 2. Central Division of Analytical Chemistry, Research Centre Jülich, Germany; 3. Graduate School of Engineering, Nagoya University, Japan; 4. The Hospital for Sick Children, University of Toronto, Canada
P2	**DETERMINATION OF RARE EARTH ELEMENTS (REES) IN AIRBORNE PARTICULATE MATTER (APM) AND RAIN WATER COLLECTED IN TOKYO, JAPAN** Shimpei Hikida, Yoshinari Suzuki, Naoki Furuta* Faculty of Science and Engineering, Department of Applied Chemistry, Chuo University, Japan
P3	**DETERMINATION OF $^{240}PU/^{239}PU$ ATOM RATIO IN SEAWATER FROM THE EQUATORIAL PACIFIC OCEAN** M. Yamada,* J. Zheng Environmental Radiation Effects Research Group, National Institute of Radiological Sciences, Japan
P4	**INFLUENCE OF OXYGEN ON THE FORMATION OF GAS SPECIES IN LA-ICPMS** S. Allner, D. A. Frick, D. Günther* Laboratory of Inorganic Chemistry, ETH Zürich, Swiss
P5	**SINGLE-CELL ANALYSIS USING TIME-RESOLVED ICP-MS** K. S. Ho, W. T. Chan* Department of Chemistry, The University of Hong Kong, Hong Kong SAR, China
P6	**SEPARATION AND QUANTIFICATION OF TRIVALENT AND HEXAVALENT CHROMIUM IN**

	WATER SAMPLES USING A CESIUM POLYOXOMETALATE ($H_{0.5}CS_{2.5}PW_{12}O_{40}$)—PACKED COLUMN AND GRAPHITE FURNACE ATOMIC ABSORPTION SPECTROMETRY Keng-Chang Hsu, Chieh-Ju Lin, Li-Yun Chen, Yeou-Lih Huang* Department of Medical Laboratory Science and Biotechnology, Kaohsiung Medical University, Taiwan, China.
P7	**ARSENIC SPECIATION IN SEAFOOD PRODUCTS IN TAIWAN** Syr-Song Chen,[1] Cheng-Ming Chu,[1] Che-Lun Hsu,[1] Ya-Min Kao, Deng-Fwu Hwang[2]* 1. Food and Drug Administration, Department of Health, Taiwan, China 2. Department of Food Science, National Taiwan Ocean University, Taiwan, China
P8	**CHIP-BASED PHOTO-CATALYST REDUCTION DEVICE COUPLING WITH HPLC AND ICP-MS FOR DETERMINATION OF SELENIUM SPECIES** Cheng-Hsing Lin, Jung-Fu Wu, Yuh-Chang Sun* Department of Biomedical Engineering and Environmental Science, National Tsing Hua University, Taiwan, China
P9	**DETERMINATION OF TRACE ELEMENTS IN HIGH-PURITY AU、AG、PD、PT BY INDUCTIVELY COUPLED PLASMA MASS SPECTROMETRY USING AN INTERNAL STANDARD METHOD** Xiangsheng Liu Beijing General Research Institute for Non-Ferrous Metals, China
P10	**THE USE OF W-IR PERMANENT MODIFIER FOR CADMIUM DETERMINATION IN WATER AND FOOD BY ETAAS** Ge Gao,[1*] Qin Long Zhang,[1] Yu Qin Mei[2] 1. Chengdu Centre for Disease and Prevention, China; 2. Zigong Centre for Disease and Prevention, China
P11	**SIMULTANEOUS DETERMINATION OF TOTAL ORGANIC CARBON AND TOTAL PHOSPHORUS IN WATER BY AXIALLY VIEWED ICP-AES** Yuan Yang, [1*] Binzong Qiao, Ling Gao 1. Chengdu Centre for Disease and Prevention, China; 2. Chengdu Municipal Testing Center for Food and Drug, China
P12	**USE OF IRIDIUM AS PERMANENT CHEMICAL MODIFIER IN DETERMINATION OF LEAD IN BLOOD BY ETAAS** Qin Long Zhang,[*] Ge Gao Chengdu Centre for Disease and Prevention, China
P13	**DETERMINATION OF 10 METALS IN SEDIMENTS BY ICP-AES AFTER MICROWAVE DIGESTION ONLY USING HCL AND HNO_3** Qing Tan,* Tian Tian, Hui Yin, Jin He, Yuan Tian 1.Chengdu Environment Monitoring Centre, China 2.Qingyang Environment Monitoring Station,China
P14	**ACCURATE DETERMINATIONS OF FIFTY-FOUR MAJOR AND TRACE ELEMENTS IN CARBONATE BY LA-ICP-MS USING NORMALIZATION STRATEGY OF BULK COMPONENTS AS 100%** Lu Chen,[1] Yongsheng Liu*,[1] Zhaochu Hu,[1] Shan Gao,[1, 2] Keqing Zong,[1] Haihong Chen[1] 1. State Key Laboratory of Geological Processes and Mineral Resources, Faculty of Earth Sciences, China University of Geosciences, China 2. State Key Laboratory of Continental Dynamics, Department of Geology, Northwest University,

	China
P15	**USING ION MOLECULAR REACTION TO REMOVAL THE OXIDE INTERFERENCES AND DIRECT DETERMINATION OF TRACE CADMIUM IN ANIMAL FOOD AND ENVIRONMENTAL SAMPLES BY DRC-ICP-MS** Wei Guo,[1, 2] Shenghong Hu,[1]* Jiangyi Zhang,[3] Hongfei Zhang[1] 1. Key Laboratory of Biogeology and Environmental Geology of Ministry of Education, Faculty of Earth Sciences, China University of Geosciences, China; 2. Circulation Industry Promotion Center of the Ministry of Commerce, China; 3. Engineering Geology and Water Resources Department, Institute of Geology and Geophysics, Chinese Academy of Sciences, China.
P16	**CONTRASTING MATRIX INDUCED ELEMENTAL FRACTIONATION IN NIST SRM AND ROCK GLASSES DURING LASER ABLATION ICP-MS ANALYSIS AT HIGH SPATIAL RESOLUTION** Zhaochu Hu*, Yongsheng Liu, Lu Chen, Lian Zhou, Ming Li, Keqing Zong, Lvyun Zhu, Shan Gao State Key Laboratory of Geological Processes and Mineral Resources, China University of Geosciences, China
P17	**AC-ELECTROLYTE ATMOSPHERIC LIQUID DISCHARGE FOR THE DETERMINATION OF NA AND CD** Ruimin Huang, Zhenli Zhu*, Shenghong Hu Key Laboratory of Biogeology and Environmental Geology of Ministry of Education, China University of Geosciences, China
P18	**ELEMENTAL DISTRIBUTION IN THE LEAF BY LA-ICP-TOF-MS** Lanlan Jin, Xinna Chai, Shenghong Hu* Key Laboratory of Biogeology and Environmental Geology of Ministry of Education, China University of Geosciences, China
P19	**EVALUATION OF HF+HNO_3 DECOMPOSITION CAPABILITY DURING HIGH PRESSURE DIGESTION OF GEOLOGICAL SAMPLES FOR MULTI-ELEMENT ANALYSIS BY ICP-MS** W. Zhang, Z.C.Hu,* Y.S.Liu, L. Chen, H.H. Chen State Key Laboratory of Geological Processes and Mineral Resources, China University of Geosciences, China
P20	**A NOVEL METHOD FOR DETERMINATION OF MERCURY BASED ON DIELECTRIC BARRIER DISCHARGE MICRO-PLASMA JET EMISSION SOURCE** Hongtao Zheng,[1, 2] Shenghong Hu,[2] Hairong Wang,[1] Shuangshung Wang,[1] Zhenli Zhu[2]* 1. Faculty of Material Science&Chemistry Engineering, China University of Geosciences,China; 2. Key Lab of Biogeology and Environmental Geology of Ministry of Education, China University of Geosciences, China.
P21	**QUANTIFICATION OF PROTEINS USING LANTHANIDE LABELING AND HPLC/ICP-MS DETECTION** Lingna Zheng, Meng Wang*, Huajian Wang, Weiyue Feng*, Zhifang Chai Key Laboratory of Nuclear Analytical Techniques and Key Laboratory for Biomedical Effects of Nanomaterials and Nanosafety, Institute of High Energy Physics, Chinese Academy of Sciences, China
P22	**QUANTIFICATION OF MATRIX EFFECTS IN THE DETERMINATION OF LEAD CONTENT**

	IN SOLDERING TIN BY ICP-IDMS Liuxing Feng, Jun Wang, Jingbo Chao, Hai Lu Division of Metrology in Chemistry, National Institute of Metrology, China
P23	**DIELECTRIC BARRIER DISCHARGE-COLD EXCITATION EMISSION SPECTROMETRY FOR THE ANALYSIS OF AMMONIA** Zhong-Chen Wu,[1,2] Ming-Li Chen,[1] Ping Li,[1] Qian-Qian Zhu,[1] Jian-Hua Wang[1]* 1. Research Center for Analytical Sciences, Northeastern University, China 2. School of Space Science and Physics, Shandong University at Weihai, China
P24	**DETERMINATION AND PHARMACOKINETICS OF SALVIANOLIC ACID A IN RATS AFTER ORAL ADMINISTRATION BY LC-MS/MS METHOD** Yi Shen[1], Ruobing Chao,[1] Bo Gao,[2] Aimin Sun[2]* 1. West China School of Pharmacy, Sichuan University, China 2. Analytical & Testing Center, Sichuan University, China
P25	**SIMULTANEOUS DETERMINATION OF EIGHT ADULTERANTS IN SLIMMING FUNCTIONAL FOODS BY HPLC-ESI-MS/MS** Ying Shi,[1] Bo Gao,[2] Chengjun Sun,[1] Aimin Sun[2]* 1. West China School of Public Health, Sichuan University, China 2. Analytical ＆ Testing Center，Sichuan University, China
P26	**IN-DEPTH STUDY ON PROPANE-AIR COMBUSTION ENHANCEMENT WITH DIELECTRIC BARRIER DISCHARGE** Jie Tang,[1] Wei Zhao,[1] Yixiang Duan [1,2 *] 1. State Key Laboratory of Transient Optics and Photonics, Xi'an Institute of Optics and Precision Mechanics of Chinese Academy of Sciences, China; 2. Research Center of Analytical Instrumentation, Sichuan University, China
P27	**DETECTION OF VOLATILE ORGANIC COMPOUND USING MICROPLASMA IONIZATION MASS SPECTROMETRY** Xiaoyun Gong, Yuee Peng, Sichun Zhang, Xinrong Zhang* Key laboratory for Atomic and Molecular Nanoscience of the Education Ministry, Department of Chemistry, Tsinghua University, China
P28	**A NOVEL METHOD FOR ONE-STEP HOMOGENEOUS DETECTION OF DNA USING SINGLE-PARTICLE MODE INDUCTIVELY COUPLED PLASMA MASS SPECTROMETRY** Guojun Han, Yanhua Dong, Da Liu, Zhi Xing, Sichun Zhang, Xinrong Zhang* Key laboratory for Atomic and Molecular Nanoscience of the Education Ministry, Department of Chemistry, Tsinghua University, China
P29	**A NON-CHEMICAL REAGENT METHOD BASED ON DBD-VG ATOMIC FLUORESCENCE SPECTROMETER DEMONSTRATED FOR ULTRA TRACE ELEMENT DETERMINATION** Zhi Xing, Juan Wang, Meng Yang, Sichun Zhang, Xinrong Zhang* Key laboratory for Atomic and Molecular Nanoscience of the Education Ministry, Department of Chemistry, Tsinghua University, China
P30	**DEVELOPMENT OF LOW TEMPERATURE PLASMA PROBE COUPLED WITH ICP-MS FOR ELEMENTAL IMAGING** Zhi Xing, Meng Yang, Juan Wang, Sichun Zhang, Xinrong Zhang* Key laboratory for Atomic and Molecular Nanoscience of the Education Ministry, Department of Chemistry, Tsinghua University, China
P31	**THE SYNTHESIS, CHARACTERIZATION OF TITANIUM-CONTAINING MESOPOROUS**

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P32	**SOLIDIFIED FLOATING ORGANIC DROP MICROEXTRACTION COMBINED WITH ETV-ICP-MS FOR THE DETERMINATION OF HEAVY METALS IN ENVIRONMENTAL SAMPLES** Xueqin Guo, Yunli Wu, Man He, Bin Hu* Key Laboratory of Analytical Chemistry for Biology and Medicine (Ministry of Education), Department of Chemistry, Wuhan University, China
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P35	**NEW APPROACH FOR SPECIATION OF MERCURY IN MICRO-ECOSYSTEM** Yunli Wu, Xueqin Guo, Xiushan Huang, Bin Hu* Key Laboratory of Analytical Chemistry for Biology and Medicine (Ministry of Education), Department of Chemistry, Wuhan University, China
P36	**ELEMENTAL IMAGING OF THE GEOLOGICAL SAMPLE BY THE LASER IONIZATION TIME-OF-FLIGHT MASS SPECTROMETRY** Rongfu Huang, Bochao Zhang, Dongxuan Zou, Wei Hang*, Benli Huang Department of Chemistry, Key Laboratory of Analytical Sciences, College of Chemistry and Chemical Engineering, Xiamen University, China
P37	**INDUCTIVELY COUPLED PLASMA MASS SPECTROMETRY WITH AMBIENT HELIUM SURROUNDING ION SOURCE** Lingfeng Li,[1] Xianzhong Jin,[1, 2] Wei Hang,[1]* Jianguo Chen,[2] Benli Huang[1] 1. Department of Chemistry, Key Laboratory of Analytical Sciences, College of Chemistry and Chemical Engineering, Xiamen University, China 2. Ningbo Entry-Exit Inspection and Quarantine Bureau, China
P38	**ELEMENTAL ANALYSIS OF SINGLE CELL USING LASER IONIZATION ORTHOGONAL TIME-OF-FLIGHT MASS SPECTROMETRY** Yiming Lin,[1] Wei Hang,[1]* Jian He,[2] Benli Huang[1] 1. Department of Chemistry, Key Laboratory of Analytical Sciences, College of Chemistry and Chemical Engineering, Xiamen University, China 2. Department of Mechanical and Electrical Engineering, Xiamen University, China
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	GLYCOPROTEINS WITH ORTHO-HYDROXYALKYL ARYLBORONIC ACID USING HPLC-ICPMS Yacui Luo,[1] Ming Xu,[1] Limin Yang,[1] Qiuquan Wang [1, 2*] 1.Department of Chemistry & the Key Laboratory of Analytical Sciences, Xiamen University, China; 2. State Key Laboratory of Marine Environmental Science, Xiamen University, China
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P41	**DUAL-LABELING STRATEGY FOR QUANTIFYING CYSTEINE-CONTAINING PEPTIDES USING CE-LIF AND HPLC/ICP-MS** Zhubao Zhang,[1] Xiaowen,Yan[1], Ming Xu[1], Limin Yang,[1] Qiuquan Wang[1, 2*] 1. Department of Chemistry, Key Laboratory of Analytical Sciences, College of Chemistry and Chemical Engineering, Xiamen University, China; 2. State Key Laboratory of Marine Environmental Science, Xiamen University, China
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P45	**ANALYSIS OF RESIDUAL CATALYSTS IN PHARMACEUTICALS USING ICP ATOMIC EMISSION SPECTROMETRY** Yoshihisa Omori, T. Taniguchi, S. Kawano, T. Yamaguchi, J. Nagata, T. Nishine Shimadzu Corporation Analytical &Measuring Instrument Division, Japan
P46	**DETERMINATION OF HEAVY METALS IN THREE CHINESE HERBAL MEDICINES BY ICP-AES** You-bao Sun, Ning-wei Zhao Spectrometry group, Shimadzu Global COE for Application & Technical Development, China
P47	**DETERMINATION OF IODINATED HYDROCARBONS BY DIELECTRIC BARRIER DISCHARGE OPTICAL EMISSION SPECTROMETRY** Guangyu Fan,[1] Chengbin Zheng,[1] Kailai Xu,[1*] Xiandeng Hou[1,2*] 1. College of Chemistry, Sichuan University, China; 2. Analytical and Testing Center, Sichuan University, China.

P48	**ON-LINE PRECONCENTRATION AND IN-SITU PHOTOCHEMICAL VAPOR GENERATION IN COILED REACTOR FOR SPECIATION ANALYSIS OF MERCURY AND METHYLMERCURY BY ATOMIC FLUORESCENCE SPECTROMETRY** Ying Gao,[1] Wulin Yang,[2] Chengbin Zheng [1], Xiandeng Hou,[1,2*] Li Wu[2*] 1. College of Chemistry, Sichuan University, China; 2. Analytical & Testing Center, Sichuan University, China
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P50	**DUAL-CHANNEL SENSING AND DISCRIMINATION OF TOXIC VOLATILE COMPOUNDS BASED ON *N*-SI/TIO_2/TIO_2: EU EXCITED BY UV** Jing Hu,[1] Xiaoming Jiang,[1] Yi Lv,[1] Xiandeng Hou[1,2*] 1. Department of Chemistry, China; 2. Analytical & Testing Center, Sichuan University, Chengdu 610064, China.
P51	**HIGHLY SENSITIVE IMMUNOASSAY BASED ON IMMUNOGOLD-SILVER AMPLIFICATION AND INDUCTIVELY COUPLED PLASMA MASS SPECTROMETRIC DETECTION** Rui Liu,[1] Yurong Tang,[1] Xing Liu,[1] Li Wu,[2] Guilei Chen,[2] Xiandeng Hou[1, 2] and Yi Lv[1*] 1. College of Chemistry, Sichuan University, China; 2. Analytical & Testing Center, Sichuan University, China
P52	**GRAPHENE DECORATED WITH SNO_2 NANOPARTICLES: *IN-SITU* SYNTHESIS OF HIGHLY EFFiCIENT MATERIALS FOR CATALUMINESCENCE SENSOR** Hongjie Song, Chunlan He, Ying Qu, Yi Lv* College of Chemistry, Sichuan University, China
P53	**PROTEIN MODIFIED AU CLUSTERS AS SENSITIVE FLUORESCENCE TURN-OFF PROBES FOR ASCORBIC ACID** Xianxiang Wang,[1,2] Yi Lv[1], and Xiandeng Hou[1*] 1. College of Chemistry, Sichuan University, China 2. College of Life & Science, Sichuan Agricultural University, China
P54	**DIELECTRIC BARRIER DISCHARGE PLASMA-OPTICAL EMISSION SPECTROMETRY: PROMISING APPLICATION AS GC DETECTOR FOR DETERMINATION OF VOLATILE CHLORINATED HYDROCARBONS** Wei Li,[1]Xiaoming Jiang,[1] Chengbin Zheng,[1] Kailai Xu,[1] Xiandeng Hou[1,2*] 1. College of Chemistry, Sichuan University, China; 2. Analytical and Testing Center, Sichuan University, China.
P55	**HIGH YIELD CHEMICAL VAPOR GENERATION USING DIELECTRIC BARRIER DISCHARGES FOR DETECTION OF MERCURY BY INDUCTIVELY COUPLED PLASMA OPTICAL EMISSION SPECTROMETRY** Xi Wu,[1] Wulin Yang,[1] Menggang Liu,[2] Xiandeng Hou[1,3] * 1. Analytical & Testing Center, Sichuan University, China , 2. SPECTRO Analytical Instruments GmbH, China, 3. College of Chemistry, Sichuan University, China

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P57	**CATALUMINESCENCE MECHANISM OF SEVERAL ALCOHOLS/KETONES ON NANOSIZED MANGANESE OXIDE** Lichun Zhang,[1] Kailai Xu,[1] Yi Lv,[1] Xiandeng Hou[1,2*] 1. College of Chemistry, Sichuan University, China; 2. Analytical & Testing Center, Sichuan University, China
P58	**PHOTOCHEMICAL VAPOR GENERATION AND PHOTO-OXIDATION FOR EFFECTIVE MERCURY REMOVAL AND TRAPPING** Ruoxi Zhang,[1] Yong Zhang,[2] Shijun Ni,[1*] Chengbin Zheng,[3] Xiandeng Hou[3] 1. College of Applied Nuclear Technology and Automation Engineering, Chengdu University of Technology, China; 2. College of Material and Chemistry & Chemical Engineering, Chengdu University of Technology, Sichuan, 610059; 3. College of Chemistry, Sichuan University, China
P59	**LED-INDUCED CHEMILUMINESCENCE DETECTOR FOR HPLC AND CE** Xinfeng Zhang,[1,2] Yuelan Xuan,[1] Yiyu Hu,[1] Yi Lv,[1] Xiandeng Hou[1,3*] 1. College of Chemistry, Sichuan University, China; 2. College of Material and Chemistry & Chemical Engineering, Chengdu University of Technology, China; 3. Analytical & Testing Center, Sichuan University, China