



## Keynote Session I-Friday 16 October

**1500-1750**

Fri, 16<sup>th</sup>, Oct  
Room Yuehu

### **Keynote Session I: Environment, Human Health and Sustainable Development: Building a Harmonious Society Based on Science and Technology**

Moderator: Lian Xie

15:00 - 15:30  
K01

Design of the European chemical legislation REACH, its strategies for innovation and challenges for toxicological sciences

*Heidi Foth, Institute for Environmental Toxicology, Martin Luther University*

15:30 - 16:00  
K02

Fate of Sex Hormones During Wastewater Treatment

*Makram T. Suidan, University of Cincinnati*

16:30 - 17:00  
K03

Pathways for Integrating Research into Global Climate Information Services

*Fredrick Semazzi, North Carolina State University*

17:00 - 17:30  
K04

Cleaner Production: Saving Money while Saving the Environment.

*Peter Penning, Inogen Environmental Alliance, Inc.*



## Morning-Saturday 17 October-Detailed Program

### **0830-1100 Workshop 1**

### **Chemical safety, registration and REACH**

Host by Johnson Zhang

### **0810-0950 Topic A1**

### **Public Health and Environmental Disease**

Room Baiyun

Moderators: Hong Zhang, Xuguang Guo

0810-0830  
A101

The health effects of ozone: good up high-bad nearby  
*Chunbo Cai*

0830-0850  
A102

Air pollution and population health in China  
*Haidong Kan*

0850-0910  
A103  
P.

Using statistical techniques to identify air pollutants associated with asthma attack  
*Shiyong Wu*

0910-0930  
A104  
P.

Legislation of environmental and occupational health in the United States  
*Zilue Tang*

0930-0950  
A105  
P.

Occupational and environmental medicine in US and its implications for China: collaboration opportunities for the dragon and the eagle  
*Hong Zhang*

### **810-1220 Topic A2**

### **Environmental Toxicity**

Room Liyuan

Moderator: : Xiaoli Duan



## Morning-Saturday 17 October-Detailed Program

- 0810-0830  
A201  
P. Temperature and pH effects on arsenic, selenium and cadmium toxicity to *Euglena Gracilis* Z and SMZ cells  
*Jack C.Ng*
- 0830-0850  
A202  
P. Early adaptive response to arsenic mediated oxidative stress  
*Dionne Arthur*
- 0850-0910  
A203  
P. Effect of forest environments on immune function  
*Qing Li*
- 0910-0930  
A204  
P. In vitro evaluation of cytotoxicity induced by ultrafine metal oxide: Particularly, cellular influences induced by ultrafine NiO particles  
*Masanori Horie*
- 0930-0950  
A205  
P. Accumulation, distribution and toxicological effects induced by cadmium on the development of mangrove plant *Kandelia candel* (L.) Druce  
*Mohammed Mahabubur Rahman*
- 1000-1020  
A206  
P. CFP algal toxins: development of analytical and bioassay detection methods and assessment of environmental transfer in marine food webs  
*Xiwen Jiang*
- 1020-1040  
A207  
P. Arsenic poisoning in Taiwan: more than 50-year experiences  
*Ling-I Hsu*



## Morning-Saturday 17 October-Detailed Program

- 1040-1100  
A208  
p. A pilot study on measurement of ambient aerosols in Beijing by single particle mass spectrometry  
*Wenjie Zhang*
- 1100-1120  
A209  
p. Health Risk Assessment of Heavy metals in Drinking Water based on Real Measurement of Exposure Factors of Chinese People  
*Xiaoli Duan*
- 1120-1140  
A210  
p. Role of CYP2A13 in Smoking-related Human Breast Cancer  
*Jun-Yan Hong*
- 1140-1200  
A211  
p. Determination of Perchlorate in Import Fertilizer  
*Louming Wang*

### **1000-1200 Environmental Biomarkers**

#### **Topic A5**

Room Baiyun

Moderator: Yang Xia

- 1000-1020  
A501  
p. Inter-individual variability in urinary 1-aminopyrene following a controlled exposure to diesel exhaust  
*Robert Laumbach*
- 1020-1040  
A502  
p. Urinary 1-nitropyrene metabolites as a biomarker for exposure to nitropolycyclic aromatic hydrocarbons  
*Akira Toriba*
- 1040-1100  
A503  
p. Tobacco exposure biomarkers in the National Health and Nutrition Examination Survey (NHANES)  
*Yang Xia*



## Morning-Saturday 17 October-Detailed Program

1100-1120  
A504  
p. Prenatal and postnatal exposure to phthalates and the relation to steroid hormone alterations in children from central Taiwan  
*Shu-Li Wang*

1120-1140  
A505  
P. Use and benefit of biomarkers of exposure – the example of the German Environmental Survey  
*Marika Kolossa-Gehring*

1140-1200  
A506  
p. An overview to human dioxin exposure in Taiwan  
*Pao-Chi Liao*

### **0800-1210 Air and Water Pollution Monitoring and Control Topic B1**

Room Meiyuan Moderator: Jack Wang

0800-0825  
B101  
P Changes in Structure and Combustion Behaviors of Coals after  
*Wei-Yin Chen*

0825-0850  
B102  
p Air Toxics Control in Southern California, U.S.A.  
*Robert Chen-Chiu Wu*

0850-0915  
B103  
P Mercury Emission, Control and Measurement during Coal Combustion  
*Wei-Ping Pan*

0915-0940  
B104  
Particle Size Distribution of the sediments in the Peacock River and its Correlation with Concentrations of Organochlorine Pesticides  
*Wei Chen*

0940-1005  
B105  
P Applications of proteomic approach in the study of harmful algal blooms  
*Dazhi Wang*



## Morning-Saturday 17 October-Detailed Program

- 1030-1055  
B106  
P  
Carbon Monoxide Emission from Municipal Co-Composting  
*Shouhai Yu*
- 1055-1120  
B107  
P  
Photoelectrochemical sensor for the rapid screening of dna-damaging chemicals  
*Liang-Hong GUO*
- 1120-104  
5B108  
P  
ORSANCO – A Classic Model for Region-wide Source Water Protection  
*Jack Z. Wang*
- 1145-1210  
B109  
P  
Environmental Risk Assessment of offshore produced water discharges using a hybrid fuzzy-stochastic modeling approach  
*Zhi Chen*

### 0800-1210

#### Topic B4

Room Huanhe

### Water Treatment and Operations

Moderator: Michael Wang

- 0800-0825  
B401  
Antibiotics and Antibiotics Resistance Genes in Sewage Treatment Plants  
*Tong Zhang*
- 0825-0850  
B402  
Developing Sustainable and Appropriate on-site Wastewater Management System  
*Matthew Byers*
- 0850-0915  
B403  
Applications of Water Quality Research to Water and Wastewater Conveyance Systems using GIS-Integrated Computer Modeling  
*Z. Michael Wang*
- 0915-0940  
B404  
Stormwater Runoff Pretreatment and The Best Management Practices In Engineering Design  
*Jason Xi*



## Morning-Saturday 17 October-Detailed Program

0940-1005  
B405 On-line Monitoring Strategies for Optimizing Biological Nutrient Removal (BNR) Processes in Eastern US and Canada  
*Wei Zhang*

1030-1055  
B406 The Effect of Total Hardness and Ionic Strength on the Coagulation Performance and Kinetics of Aluminum Salts to Remove Humic Acid  
*Bao-Yu Gao*

1055-1120  
B407 Degradation Kinetics and Mechanism of Environmental Pharmaceuticals in Water by Advanced Oxidation Processes (AOPs)  
*Taicheng An*

1120-1145  
B408 Toxicity Identification Evaluation of Effluent of Electroplating Industry in Hong Kong  
*Po Keung WONG*

1145-1210  
B409 Application of Electron Beam Technology in Industrial Wastewater Treatment: Aggregate Organic Pollutants Removal  
*Teo-Ming Ting*

**0800-1200** **Renewable Energy and Eco-city**  
**Topic C**  
Room Panlong Moderator: Yuyang Gong

0800-0825  
C001 Low Carbon City - Sunan Case Study  
*BI Jun*

0825-0850  
C002 An Introduction to the Leadership in Energy and Environmental Design (LEED) System  
*Randy Knott*



## Morning-Saturday 17 October-Detailed Program

0850-0915  
C003 Sustainable Environmental Governance-Need for International Agreement on Local Government Legislations on Environment  
*T jay Jayasingam*

0915-0940  
C004 Enterprises Strategies in Response to Energy Security and Climate Change  
*GONG Yuyang*

0940-1005  
C005 City-to-city Networks: The Diffusion of Energy Best Practices and Opportunities for Further Progress  
*Stephen MINAS*

1020-1045  
C006 Current Status and Characteristics of Circular Economy Development in China  
*Qiao Qi*

1045-1110  
C007 Environmental Performance & Economic Growth in OIC Countries  
*Ahmad Jafari Samimi*

1110-1135  
C008 Climate Change and China's National Security  
*Zhang Haibin*

1135-1200  
C009 The Challenges and Potentialities Creating a Mixed Energy System  
*Ivonne Andrea Sanchez Hernandez*

### **830-1200** **Air Quality and Climate Change** **Topic D1**

Room Cuiwei Moderators: Lian Xie, Meigen Zhang

0830-0855  
D101 Practical Engineering Approaches for Assessing Future Climate Conditions  
*Xin Qiu*



## Morning-Saturday 17 October-Detailed Program

- 0855-0920  
D102 SIMULATION OF AEROSOL OPTICAL DEPTH OVER EAST ASIA BASED ON THE MODEL SYSTEM RAMS-CMAQ  
*Meigen Zhang*
- 0920-0945  
D103 COMBATING CLIMATE CHANGE IN KENYA: EFFORTS, CHALLENGES AND OPPORTUNITIES  
*Anne Nyatichi OMAMBIA*
- 0945-1010  
D104 The extinction contributions of aerosol particle size spectrum, compositions and secondary aerosols to visibility over the Pearl River Delta Region (PRD), China  
*Xuejiao Deng*
- 1030-1055  
D105 Impact of local and ambient air pollution sources on the air quality in Beijing  
*Lian Xie*
- 1055-1120  
D106 The source, long-range transport, and the characteristics of the highest-recorded floating dust occurred at Shanghai in 2007  
*Qingyan Fu*
- 1120-1145  
D107 Black carbon aerosols and their radiative properties in the Pearl River Delta region  
*Dai Wu*
- 1145-1200  
D108 Measurements of Aerosol and Cloud Particles on Mt.Huang: Preliminary Results  
*Zhenyi Lin*



## Morning-Saturday 17 October-Detailed Program

**0830-1200**

**Topic D3a**

Room TBD

### Remote Sensing of Environment

Moderators: Xiaozhen Xiong,  
Liangfu Chen, Qing Li

830-900  
D301

Second Generation Polar-Orbiting Meteorological Satellites of China: Fengyun 3 and its application on global environmental monitoring  
*Peng Zhang*

900-930  
D302

MIPAS-ENVISAT and IASI-METOP ozone data fusion  
*Ugo Cortesi*

930-1000  
D303

Atmospheric trace gases measurements with ground-based and airborne DOAS in China  
Pinhua Xie (*invited*), Wenqing Liu, Fuqi Si, Jin Xu, Ang Li, Ke Dou, Peng Shi, Jianguo Liu

1020-1045  
D304

A new approach for atmospheric correction and land surface temperature retrieval  
*Lisheng Xu*

1045-1110  
D305

NPOESS Preparatory Project Validation Program for the Cross-track Infrared Sounder  
*Guang Guo*

1110-1135  
D306

The Satellite-based Estimation of Regional Particulate Matter  
*Liangfu Chen*

1135-1200  
D307

Solar Backscatter Ultraviolet Sounder (SBUS) on FY-3 Satellite and the Primary Results of Ozone profiles Deduced from its Measurements  
*Fuxiang Huang*