

Program for the 2017 ISEST

Overview of the program

Date Time	September 20	September 21		September 22	
7:00	Breakfast	Breakfast		Breakfast	
8:00-12:00	8:30 Opening Ceremony 9:00 Group photo session	Session A1	Session B1	Session A5	Session B5
	Invited plenary presentation 1	Session A2	Session B2		Session B6
12:00-13:30	Lunch	Lunch			
13:30-18:00	Invited plenary presentation 2	Session A3	Session B3		
	Invited plenary presentation 3	Session A4	Session B4		
18:00	Welcoming Reception (18:30)	Supper		Supper	

- Accommodations and symposium are arranged at the Beijing Xijiao Hotel (北京西郊宾馆).
- On-site registration will be held in the lobby of the Beijing Xijiao Hotel 13:00–22:00 on September 19.
- Venue for Breakfast, Lunch, Supper, Shangyuan Restaurant(赏园), the 2nd floor, Building No. 5, Beijing Xijiao Hotel.
- Venue for Welcoming Reception: Dongyuan Restaurant(东园), the 1st floor, Building No. 5, Beijing Xijiao Hotel.
- Venue for opening ceremony and invited papers presentation: Gingko Meeting Hall(银杏大厅), the 3rd floor of building No.1, Xijiao Hotel.
- Venue for session A1-A5: Meeting room No. 5, 2nd floor of building No.1, Xijiao Hotel.
- Venue for session B1-B6: Meeting room No. 1, 2nd floor of building No.1, Xijiao Hotel.
- Group photos and participants list will be distributed before the end of the symposium.
- The badges of staff are in orange color.
- Page number is behind the title.

September 20

7:00 Breakfast

7:30-8:30 Registration

8:30-9:00 Opening Ceremony

Venue: Ginkgo Meeting Hall(银杏大厅), 3rd floor of building No.1, Xijiao Hotel

Chair: Prof. Bo WANG, Beijing Institute of Technology, China

9:00-9:30 Group photo session & Coffee break

Invited Plenary Presentation 1

Venue: Ginkgo Meeting Hall(银杏大厅), 3rd floor of building No.1, Xijiao Hotel.

Chair: Prof. Andy CUNDY, University of Southampton, UK

Prof. Xiaoyan LI, The University of Hong Kong, China

9:30-10:05 Advances in the Field of Advanced Oxidation Processes for the Treatment of Cyanotoxins, Pharmaceuticals, Pesticides and Other Contaminants of Emerging Concern (1)

Prof. Dionysios D. DIONYSIOU, University of Cincinnati, USA

10:05-10:40 Uptake of Nanoparticles by Crop Plant Species. Biotransformation and Toxicity: Current Knowledge and Future Perspectives (111)

Prof. Jorge GARDEA-TORRESDEY, The University of Texas at El Paso ,USA

10:40-11:15 Recent Advances in Understanding and Use of Redox Processes in Capacitive Deionisation Technologies for Water Treatment (3)

Prof. David WAITE, The University of New South Wales, Australia

11:15-11:50 Mercury Control Technologies in Coal Fired Power Plant

Prof. Weiping PAN, North China Electric Power University, China; West Kentucky University, USA

12:00 Lunch

Invited Plenary Presentation 2

Venue: *Ginkgo Meeting Hall(银杏大厅), the 3rd floor of building No.1, Xijiao Hotel.*

Chair: *Prof. Dionysios D. DIONYSIOU, University of Cincinnati, USA*

Prof. Keping YAN, Zhejiang University, China

13:30-14:05 Formation of Haze in China - Why So Severe and Frequent (50)

Prof. Renyi ZHANG, Texas A&M University, USA

14:05-14:40 Regional Haze Pollution in China: Implication from Emission and Observation

Academician Kebin HE, Tsinghua University, China

14:40-15:15 The Health Effects of Air Pollution in China: Scientific Challenges and Policy Implications

Prof. Tong ZHU, Peking University

15:15-15:40 *Coffee Break*

Invited Plenary Presentation 3

Venue: *Ginkgo Meeting Hall(银杏大厅), the 3rd floor of building No.1, Xijiao Hotel.*

Chair: *Prof. David WAITE, The University of New South Wales, Australia*

Prof. Tong ZHU, Peking University

15:40-16:15 Metal Organic Frameworks for Air Filtration

Prof. Bo WANG, Beijing Institute of Technology, China

16:15-16:50 Scalable Adsorbents for Management of Problem Contaminants (5)

Prof. Andy CUNDY, University of Southampton, UK

16:50-17:25 Activation of Ferrate in Treatment of Micropollutants: Current Knowledge and Future Outlook (4)

Prof. Virender SHARMA, Texas A&M University, USA

17 :25-18:00 What Happens During Initial Oxidant Demand Period?

Prof. Hyunook KIM, The University of Seoul, Korea

18:30 *Welcoming Reception*

Venue: *Dongyuan Restaurant(东园), 1st floor, Building No. 5*

September 21

7:00 Breakfast

<p>Session A1 Special Session in Honor of Academician Guibin JIANG(1) Venue: Meeting room No. 5, 2nd floor of building No.1 Chair: Prof. Bing YAN, Shandong University Prof. Virender SHARMA, Texas A&M University</p>	<p>Session B1 Air Pollution and Air Quality Control (1) Venue: Meeting room No. 1, 2nd floor of building No.1 Chair: Prof. Ziqing YAN, Zhongguancun Air Pollution Prevention and Control Union Prof. Keping YAN, Zhejiang University</p>
<p>Invited Presentations 8:00-8:30 Environmental Pollution and Health Effects Academician Guibin JIANG, RCEES 8:30-8:50 My guide for Environmental Exploration Prof. Bing YAN, Shandong University 8:50-9:10 Environmental Science Collaboration in China Prof. Virender SHARMA, Texas A&M University 9:10-9:30 Key Chemical Species in Fine Particles Prof. Jianmin CHEN, Fudan University 9:30-9:50 Chemistry-Technology Nexus for Applied Environmental Nanotechnology Prof. Bingcai PAN, Nanjing University</p>	<p>8:00-8:30 Invited presentation From Electrostatic Precipitation to Non-Thermal Plasma for Gas Cleaning (PM, SO₂, NO_x, VOCs) Prof. Keping YAN, Zhejiang University 8:30-9:00 Invited presentation The Analysis of Big Data and Emission Reduction Effects of Vehicle Pollution Prof. Ziqing YAN, Zhongguancun Air Pollution Prevention and Control Union 9:00-9:30 Invited presentation Large-Scale Production of Nanofibers and Applications Assoc. Prof. Hui WU, Tsinghua University 9:30-9:50 Haze in China: Mechanisms of Formation and Technical Solutions Dr. Jian LUO, Tianjin Binhai EnviroTechnologies, Inc</p>

9:50-10:10 Coffee Break

<p>Session A2 Special Session in Honor of Academician Guibin JIANG(2) Venue: Meeting room No. 5, 2nd floor of building No.1 Chair: Academician Guibin JIANG, RCEES Prof. Yong CAI, Florida International University, USA</p>	<p>Session B2 Air Pollution and Air Quality Control (2) Venue: Meeting room No. 1, 2nd floor of building No.1 Chair: Prof. Bo WANG, Beijing Institute of Technology Prof. Lin DU, Shandong University</p>
<p>Invited Presentations</p> <p>10:10-10:30 Speciation of Metals: Challenges and Perspectives Prof. Yong CAI, Florida International University, USA</p> <p>10:30-10:50 Carbon Nanomaterial based Membranes for Water Treatment Prof. Xie QUAN, Dalian University of Technology</p> <p>10:50-11:10 The guide for my research on Endocrine Disruptors Chemicals Prof. Daqiang YIN, Tongji University</p> <p>11:10-11:30 Fate and Reactivity of Pollutants in Aquatic Environments as Affected by Surface Processes Prof. Dongqiang ZHU, Peking University</p> <p>10:30-11:50 Recycling of Heavy Metal from Nano-Sludge <i>via</i> Crystal Growth manipulation Prof. Zhang LIN, Southern China University of Technology</p> <p>11:50-12:10 Analysis of Nanoparticles in Environmental Samples: from Metallic to Plastic Prof. Jingfu LIU, Research Center for Eco-Environmental Sciences, CAS</p>	<p>10:10-10:40 <i>Invited presentation</i> The Establishment of Emission Lab for Aerosols and Recent Research Progresses: from Source Emission to Receptor Monitoring of Central China Prof. Shaofei KONG, China University of Geosciences (Wuhan)</p> <p>10:40-11:10 <i>Invited presentation</i> Kinetically Determined Hygroscopicity and Efflorescence of Sucrose- Ammonium Sulfate Aerosol Droplets Under Lower Relative Humidity (74) Prof. Yunhong ZHANG, Beijing Institute of Technology</p> <p>11:10-11:30 Design of Highly Efficient NO_x Storage-Reduction Catalysts from Layered Double Hydroxides for NO_x Emission Control from Naphtha Cracker Flue Gases(65) Prof. Qiang WANG, Beijing Forestry University</p> <p>11:30-11:50 The Effect of Hydroxy Acid on the Aerosol Cluster Formation Assoc. Prof. Xiuhui ZHANG, Beijing Institute of Technology</p> <p>11:50-12:10 Preparation of Cu_yAlO_x Catalyst for Highly Active Low Temperature NH₃-SCR Catalyst from Layered Double Hydroxides and Its Resistance to Alkali and SO₂(54) Ms. Qinghua YAN, Beijing Forestry University</p>

12:10 Lunch

<p>Session A3 Special Session in Honor of Prof. Jun MA(1) Venue: Meeting room No. 5, 2nd floor of building No.1 Chair: Prof. Virender SHARMA, Texas A&M University Prof. Shaoping TONG, Zhejiang University of Technology</p>	<p>Session B3 Air Pollution and Air Quality Control(3) Venue: Meeting room No. 1, 2nd floor of building No.1 Chair: Prof. Jianmin CHEN, Fudan University Prof. Yunhong ZHANG, Beijing Institute of Technology</p>
<p>Invited presentations</p> <p>13:30-14:00 Developments and Applications of Sulfate Radical-based Advanced Oxidation Processes in Removal of Organic Contaminants (2) Prof. Dionysios (Dion) D. DIONYSIOU, University of Cincinnati, USA</p> <p>14:00-14:30 Investigation of Soluble Microbial Substances (SMPs) as the Precursors of Disinfection By-products in Drinking Water (12) Prof. Xiaoyan LI, The University of Hong Kong, China</p> <p>14:30-15:00 Contaminated Water/Soil Cleaning Technology Improvement Using Microbial Electrochemistry Prof. Qixing ZHOU, Nankai University</p> <p>15:00-15:30 Challenge of Drinking Water Quality in Urban Area and Technology Development Toward Sustainable Solution Prof. Jun MA, Harbin Institute of Technology</p>	<p>13:30-14:00 <i>Invited presentation</i> The Explosive Growth of Fine Particles and the Difficulty to be Recognized its Formation Mechanism Prof. Jianmin CHEN, Fudan University</p> <p>14:00-14:30 <i>Invited presentation</i> Atmospheric Reactions and Interactions of Volatile Organic Compounds (VOCs) (72) Prof. Lin DU, Shandong University</p> <p>14:30-14:50 Clean Coal Technology to Significantly Reduce Air Pollution from Household Coal Combustion (70) Prof. Dingrong BAI, Yankuang Group Co.</p> <p>14:50-15:10 Study on Effects of Source on Aerosol pH(71) Assoc. Prof. Guoliang SHI, Nankai University</p> <p>15:10-15:30 Time Series of DNA Accumulation on a Ventilation System Filter in a University Library (73) Assoc. Prof. Yan WU, Shandong University</p>

15:30-15:50 Coffee Break

<p>Session A4 Special Session in Honor of Prof. Jun MA (2) Venue: Meeting room No. 5, 2nd floor of building No.1 Chair: Prof. Walter DEN, Tunghai University, Taiwan of China Prof. Liqiang JING, Heilongjiang University</p>	<p>Session B4 Environmental Chemistry and Environmental Toxicology Venue: Meeting room No. 1, 2nd floor of building No.1 Chair: Prof. Jorge GARDEA-TORRESDEY, The University of Texas at El Paso ,USA Prof. Lingyan ZHU, Nankai University</p>
<p>15:50-16:20 <i>Invited presentation</i> Two-Layer Encapsulation of Ferrate(VI) with Chitosan and Hydrocarbon Buffer (7) Prof. Walter DEN, Tunghai University, Taiwan of China</p> <p>16:20-16:50 <i>Invited presentation</i> Carrier-Controlled Strategies for Efficient Photocatalysis to Convert Environmental Substances (13) Prof. Liqiang JING, Heilongjiang University</p> <p>16:50-17:20 <i>Invited presentation</i> Pretreatment of acidic refractory wastewater by ozone-based advanced oxidation process Prof. Shaoping TONG, Zhejiang University of Technology</p> <p>17:20-17:40 Removal of Nitrobenzene from Aqueous Solution by A Novel Electro-Peroxone-ACF Process: Comparison Between O₃-ACF with Electro-peroxone-ACF (31) Assoc. Prof. Chun ZHAO, Chongqing University</p> <p>17:40-18:00 Degradation of Triclosan in Presence of <i>p</i>-aminobenzoic Acid under Simulated Sunlight Irradiation(33) Assoc. Prof. Hongjing LI, Fudan University</p>	<p>15:50-16:20 <i>Invited Presentation</i> Nano-TiO₂ in Natural Aquatic Environment and Impacts on Transformation of Organic Pollutants(107) Prof. Lingyan ZHU, Nankai University</p> <p>16:20-16:40 Photochemical Stability of Iron-Phenolic (Gallic Acid) Complex Derived from Peat Swamp and its Implications (108) Mr. Yiliu WANG, China University of Geoscience</p> <p>16:40-17:10 Adsorption of Phosphorus by Organo-Fe Complexes in Peat Swamp and its Environmental Significance(109) Mr. Weilin YANG, China University of Geoscience</p> <p>17:10-17:30 Photochlorinated Fullerene Increase Cytotoxicity towards Macrophage J774 via Acting as SOD and Electron Transfer Mediator (114) Prof. Chengdong ZHANG, Nankai University</p> <p>17:30-17:50 Differential Effects of Graphene and Graphene Oxide on Copper Toxicity to <i>Daphnia magna</i> (112) Ms. Yingying LIU, Beihang University</p> <p>17:50-18:10 Municipal Wastewater Reuse in Agriculture: Do Chemical Contaminants Pose Human Health Risks? (116) Dr. Leslie CIZMAS, Texas A&M University, USA</p>

18:00 Supper

September 22

7:00 Breakfast

Session A5 Water Pollution and Water Quality Control Venue: Meeting room No. 5, 2nd floor of building No.1 Chair: Prof. Chuanyi WANG, Shaanxi University of Science & Technology Dr. Chengpeng LI, Guangdong Ocean University	Session B5 Environmental Monitoring and Assessment Venue: Meeting room No. 1, 2nd floor of building No.1 Chair: Prof. Renyi ZHANG, Texas A&M University, USA Prof. Hyunook KIM, The University of Seoul, Korea
8:00-8:30 Invited Presentation Nanostructured Clay Minerals-Based Materials for Organic Contaminants Transformation and Heavy Metal Removal (14) Prof. Chuanyi WANG, Shaanxi University of Science & Technology	8:00-8:20 Impact of Fishmeal on Antibiotic Resistome in Mariculture Sediment(117) Ms. Ying HAN, Dalian University of Technology
8:30-9:00 Invited Presentation Applications of Poly (allylthiourea-co-Acryl acid) Based Hydrogels and Carbon Materials for Sewage Treatment (15) Dr. Chengpeng LI, Guangdong Ocean University	8:20-8:40 Applied Research of Cleaner Production Evaluation System in Wig Industry(118) Ms. Xiaofang LIU, Zhengzhou University
9:00-9:20 Nitritation and Denitritation Performance at Pilot-Scale Two-stage Sideline Treatment of Anaerobic Reject Water(19) Assoc. Prof. Dilek ERDIRENCELEBİ, Selcuk University, Turkey	8:40-9:10 Biofilm Induced Electrochemical Corrosion Mechanism of Q235B and 317L Steels in Reclaimed Water(129) Dr. Haiya ZHANG, Tianjin University
9:20-9:40 Anaerobic Biodegradability and Dewaterability of Sewage Sludge Fractions: Potential for Separate Anaerobic Stabilization in Sequential Batch Reactors (25) Assoc. Prof. Dilek ERDIRENCELEBİ, Selcuk University, Turkey	9:10-9:30 Chemical Characterization and Pro-Inflammatory and Genotoxic Effects of Atmospheric Fine Particles (PM _{2.5}) in Rural Areas(51) Dr. Anthony VERDIN, Université du Littoral Côte d'Opale, France
9:40-10:00 Electro-Active Filter Technology for Environmental Applications (34) Prof. Yanbiao LIU, Donghua University	9:30-9:50 Assessment of Individual Exposure Level of the Dakar Population to Outdoor and Indoor Air Pollution(52) Dr. Anthony VERDIN, Université du Littoral Côte d'Opale, France
10:00-10:20 Superfine Powdered Activated Carbon for Significantly Enhanced Adsorption of Ranitidine: Preparation, Performance and Mechanism (38) Dr. Ying WANG, Tsinghua University	9:50-10:10 Electrospun Fibres Covered Micro-structured Fibres for Air Filtering(66) Dr. Yongzhen LI, Agricultural Products Processing Research Institute, China

10:10-10:30 Coffee Break

Session B6 Soil Pollution and Remediation

Venue: Meeting room No. 1, 2nd floor of building No.1

Chair: Prof. Lingxue KONG, Deakin University, Australia

Prof. Kaisong ZHANG, Institute of Urban Environment, CAS

10:30-11:00 *Invited Presentation*

Nanostructured Materials for Effective and Efficient Soil Remediation

Prof. Lingxue KONG, Deakin University, Australia

11:00-11:30 *Invited Presentation*

Biogenic Nanocomposite Membrane for Water Treatment

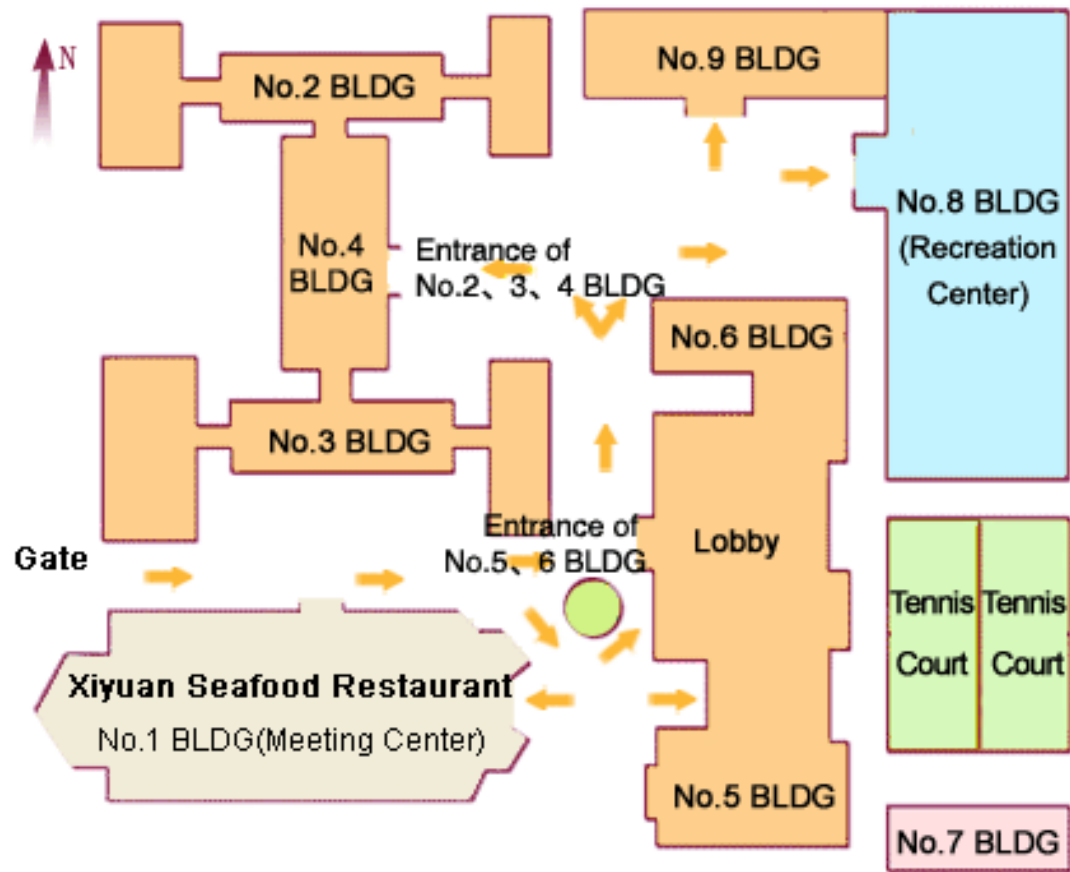
Prof. Kaisong ZHANG, Institute of Urban Environment, CAS

11:30-11:50 Rhizosphere Effect of Tall Fescue on the Structure and Functions of the Bacterial Community in Response to Polycyclic Aromatic Hydrocarbons in an Aged Agricultural Soil (82)

Assoc. Prof. Zongqiang GONG, Institute of Applied Ecology, CAS

11:50-12:10 Combined Application of Citric Acid and 5-aminolevulinic Acid Alleviated Chromium Toxicity and Assisted its Phytoextraction by Sunflower (105)

Dr. Shafaqat ALI, Government College University, Pakistan



Plan of Beijing Xijiao Hotel