

第六届 环境模拟与污染控制 国际学术研讨会

暨

第十一届环境模拟与污染控制学术研讨会

3-5
November
2019

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国际学术研讨会

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The 6th
International Conference on
Environmental Simulation
and Pollution Control

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and Pollution Control

Program

3-5
November
2019
Beijing

主办单位 Organizer



环境模拟与污染控制国家重点联合实验室
State Key Joint Laboratory of Environment
Simulation and Pollution Control



中国环境科学学会
Chinese Society for
Environmental Sciences

Beijing



Introduction of

Invited Speakers

特邀报告人简介



**James M.
Tiedje**

Dr. Tiedje is University Distinguished Professor of Microbiology and Molecular Genetics, and of Plant, Soil and Microbial Sciences, and is Director of the Center for Microbial Ecology at Michigan State University. His research focuses on microbial ecology, physiology and diversity, especially regarding the nitrogen cycle, biodegradation of environmental pollutants and use of molecular methods to understand microbial community structure and function. His group has discovered several microbes that biodegrade chlorinated pollutants and is using genomics to better understand microbial functions in their environment. He has served as Editor-in-Chief of *Applied and Environmental Microbiology* and Editor of *Microbial and Molecular Biology Reviews*. He has over 500 refereed publications including seven in *Science* and *Nature*. He shared the 1992 Finley Prize from UNESCO for research contributions in microbiology of international significance, is Fellow of the AAAS (The American Association for the Advancement of Science), the American Academy of Microbiology, and the Soil Science Society of America, and is a member of the U.S. National Academy of Sciences. He was President of the American Society for Microbiology and the International Society for Microbial Ecology. He received his B.S. degree from Iowa State University and his M.S. and Ph.D. degrees from Cornell University.



**David A.
Stahl**

Dr. Stahl is professor of Civil and Environmental Engineering and Adjunct Professor of Microbiology of the School of Medicine and University of Washington. Stahl obtained his M.S. and Ph.D. in microbiology working with Dr. Carl Woese at the University of Illinois and completed postdoctoral work with Dr. Norman Pace, now at the University of Colorado, Boulder. He has held academic appointments at the University of Illinois and Northwestern University. Stahl is a member of the American Academy of Microbiology, a recipient of the Bergey and Procter & Gamble Awards, and has served on numerous national committees. He is a co-founding editor of *Environmental Microbiology*. Stahl's lab studies different aspects of environmental biotechnology, microbial evolution, and ecology. Research takes advantage of recent developments in molecular systematics and genomics that now provide the conceptual framework and molecular tools for direct studies of microorganisms in the environment, at the level of both populations and single cells. This allows for more comprehensive investigations of how microbial community structure relates to system level processes. Natural systems now being studied include nitrogen and sulfur cycling in coastal and geothermal environments, and stream and sediment ecology.



**Bruce
Rittmann**

Dr. Rittmann is the center director and professor of the Swette Center for Environmental Biotechnology at the Biodesign Institute at Arizona State University and is also a Regents' Professor in the School of Sustainable Engineering and Built Environment. As an international leader in managing microbial communities, Dr. Rittmann's work is leading to new ways to clean up pollution, treat water and wastewater, capture renewable energy, and improve human health. Dr. Rittmann is at the lead of ASU teams using two innovative approaches to renewable bioenergy, inventing a technology of the membrane biofilm reactor (MBfR), and exploring the link between microbes and human health. According to Institute for Scientific Information, Dr. Rittmann is one of the world's most highly cited researchers and has published nearly 500 peer-reviewed papers. His textbook, *Environmental Biotechnology: Principles and Applications*, is used by universities around the world to educate students about the ways in which microorganisms can be used to improve environmental quality. He has received many accolades during his career, including as a member of the U.S. National Academy of Engineering. Dr. Rittmann earned his doctoral degree in environmental engineering at Stanford University, and his master's degree and bachelor's degree at Washington University in St. Louis.



**Donald
Huisingsh**

Donald Huisingsh is professor of the University of Tennessee in Tennessee, US. He is skilled in interdisciplinary education and holistic approaches to defining and solving society's problems to effective and equitable progress to be made toward Sustainable Societies. He is skilled in course and curriculum development and curriculum evaluation in topics ranging from Sustainable Development, in the broadest dimensions, to more detailed issues such as: toxic use reduction, life cycle thinking, industrial ecology, pollution prevention, & eco-efficiency. He also addresses issues such as the philosophical, ethical, and political implications of improper ecosystem management, human population growth and human capacity building. Donald Huisingsh is the author or co-author of more than 350 professional publications, audio-video productions and simulations. He is the founder and Editor-in-Chief of the *Journal of Cleaner Production* and co-founder of *The International Journal of Sustainability in Higher Education*. Donald Huisingsh was awarded The Most Valuable Contributions to Pollution Prevention Award, the International Environmental Leadership, and the North Carolina State Government's Public Service Award, among numerous other awards and honors. He earned his doctoral degree at Wisconsin-Madison University and his bachelor's degree at Minnesota University in US.



Dabo Guan

Professor Dabo Guan is a Distinguished Professor at Tsinghua University, China, and a Senior Member of St Edmund's College, University of Cambridge. He is a Fellow of Academy of Social Sciences in UK, and also a fellow of Royal Geographical Society. He specialises in environmental economics for international climate change mitigation, climate change adaptation, scenario analysis on environmental impacts, water resources accounting and management, input-output modelling and their applications in both developed and developing countries. Dabo Guan serves as a Subject Editor of *Applied Energy* and board editor for *Nature Sustainability*. He is a council member of the Rockefeller Foundation Economic Council on Planetary Health. Dabo Guan served as a Lead Author for the 5th Assessment Report of Working Group III, IPCC. He was the Highly Cited Researcher for 2018. He has authored over 160 publications, including 40⁺ articles published on Science, Nature, Nature Research Journals, and PNAS. He received the PNAS Cozzarelli Prize 2014, the Leontief Prize 3 times and the Philip Leverhulme Prize. His paper about climate change impact on beer consumption received the 2018 Altmetric Top 100 award. Dabo obtained a PhD in Ecological Economics and his bachelor's degree at University of Leeds in UK.



Hajime Akimoto

Dr. Hajime Akimoto is a vice chair of Science Panel/Asia Pacific Clean Air Partnership (APCAP) under UN Environment Asia Pacific in Bangkok. He is also a guest scientist at National Institute for Environmental Studies (NIES), Japan. His expertise is atmospheric chemistry on ozone and SOA, and their precursors. His research is also extended to policy dialogue related to co-control of short-lived climate pollutants (SLCP). Hajime Akimoto received his PhD in physical chemistry, his master's degree and his bachelor's degree from Tokyo Institute of Technology in 1967. For his postdoctoral research he spent three years during 1969-71 in Department of Chemistry at University of California, Riverside working with Prof. James N. Pitts Jr. In 1974 he joined National Institute for Environmental Studies (NIES) in Tsukuba. He then moved to Research Institute for Advanced Science and Technology at the University of Tokyo as a professor in 1993. In 2000, he joined Frontier Research Center for Global Change now under Japan Agency for Marine-Earth Science and Technology (JAMSTEC) as a Director of Atmospheric Composition Research Program. After 2010 he served as Director General of Asia Center for Air Pollution Research (ACAP) in Niigata, Japan.



Andreas Wahner

Dr. Andreas Wahner is chairman of the Academic Board and director of the Institute of Energy and Climate Research (Troposphere) at the Forschungszentrum Jülich GmbH, Germany. He is associate director of Rheinland Institute of Environment and professor of University of Cologne in Germany. He is also chairman of Academic Board of HELMHOLTZ Joint Research Center. His research interests range from atmospheric chemical kinetics, field investigations of the system of tropospheric photo-chemistry and the oxidation capacity of the troposphere with emphasis on secondary aerosol formation, to long term measurements of the change of the atmosphere due to natural and anthropogenic influence. Andreas Wahner has presided over 20⁺ Major Research Plans of Germany and European Union. He has published over 130 high-impact journal papers, including Science, Nature, and PNAS. He served as Editor-in-Chief of *Journal of Atmospheric Chemistry* (2003-2009). Andreas Wahner obtained his doctoral degree at Bochum University, Germany.



Kihong Park

Dr. Park is professor and director of PM_{2.5} characterization center, Gwangju Institute of Science and Technology (GIST) in Korea. He is an editor in *Aerosol Science and Technology* and an Editorial Board member of *Aerosol and Air Quality Research*. He has worked on development of new aerosol measurement techniques, PM_{2.5} monitoring, PM_{2.5} source characterization, PM_{2.5} toxicity, new particle formation, and so on. He obtained his PhD at University of Minnesota in USA in 2003 under Prof Peter H. McMurry after his BS and MS had been completed at Seoul National University. He had worked as an Assistant Research Professor at Desert Research Institute (DRI), USA and a Research Associate at National Institute of Science and Technology (NIST) and University of Maryland before he joined the current position at GIST in 2005. He was a leader of PM_{2.5} Research Consortium (2014-2017), and now is a PI of National Leading Research Lab (NLRL) program (2011-present) and international monitoring of PM_{2.5} in Northeast Asia (National Strategic Project for PM) in Korea.



Qilin Li

Dr. Qilin Li is professor of civil and environmental engineering (CEE), chemical and biomolecular engineering, and of materials science and nanoengineering, and associate director of the Nanotechnology Enabled Water Treatment (NEWT) Center at Rice University. She also served as chair of the International Water Association's Nano&Water Specialty Group management committee, and as a member of the US EPA's Science Advisory Board's Environmental Engineering Committee. Dr. Li's research interests include advanced technologies for water and wastewater treatment, membrane processes, colloidal processes and interface phenomena in aqueous environments, environmental applications and implications of nanotechnology. Dr. Qilin Li teaches courses and conducts research on physical and chemical processes that impact water quality in natural aqueous environment as well as water/wastewater treatment systems. Dr. Li's current research focuses on the behaviors of environmental colloids and macromolecules at aqueous-solid interfaces and the subsequent impact on their fate and transport in natural and engineered systems. Li earned her doctoral degree in environmental engineering from the University of Illinois at Urbana-Champaign.



Program

会议日程

4 Nov., 2019
Monday

Morning

Opening ceremony and Plenary session 1 and 2

Venue: Ginkgo Hall, No.1 building (3rd floor), Xijiao Hotel

Time	Title	Speaker
07:30-08:30	Registration	
08:30-08:40	Opening Ceremony	Xia Huang <i>ESPC, Tsinghua University, CN</i>
Plenary Session 1 Chair: Dongsheng Wang <i>ESPC, Chinese Academy of Sciences, CN</i>		
08:40-09:10	Unpacking Microbial Biodiversity	James M. Tiedje <i>Michigan State University, USA</i>
09:10-09:40	Carl Woese and the path leading to the discovery of the Archaea	David A. Stahl <i>University of Washington, USA</i>
9:40-10:10	Prying Open the Black Box	Bruce Rittmann <i>Arizona State University, USA</i>
10:10-10:30	Coffee/tea Break	
Plenary Session 2 Chair: Jingkun Jiang <i>ESPC, Tsinghua University, CN</i>		
10:30-11:00	How are 'Climate Changes' Challenging our Societies and Scientists to Develop New Ways of Thinking, Planning, Governing and Living?	Donald Huisingh <i>University of Tennessee, USA</i>
11:00-11:30	Global Climate Change Mitigation And International Trade	Dabo Guan <i>Tsinghua University, CN</i>
11:30-12:00	New observations of unexplained OH recycling and Ozone production	Andreas Wahner <i>Forschungszentrum Juelich, DE</i>
12:00	Lunch: Dongyuan, Jingyuan Restaurant, No.5 building (1 st floor)	

Afternoon

Parallel sessions

No.	Time	Session topic	Venue
A1	13:30-18:00	Monitoring and sensor for water environment	No.1 Meeting Room No.1 Building
C1	13:30-18:00	New theories and technologies for water purification	No.5 Meeting Room No.1 Building
C2	13:30-18:00	New theories and technologies for water purification	No.6 Meeting Room No.1 Building
D1	13:30-18:00	Air pollution: Sources, formation mechanisms and effects	Huiyuan Hall No.5 Building
E1	13:30-18:00	Ecological process and management	No.2 Meeting Room No.1 Building
F	13:30-18:00	Nanofiltration for water treatment	Zhongbei Room No.1 Building
G1	13:30-18:00	Special Workshop: Process simulation and Advanced technology for drainage system	No.8+9 Meeting Room No.1 Building
H	13:30-18:00	“Five water co-governance” in Yiwu	No.3 Meeting Room No.1 Building
18:00-19:00		Dinner: Dongyuan, Jingyuan Restaurant, No.5 building (1 st floor)	

Evening

Salon and Exhibition

No.	Time	topic	Venue
W	19:00-21:00	Writing Workshop	No.1 Meeting Room No.1 Building
S	19:00-21:00	The night of PhD and Postdocs: How to Learn and Work Efficiently: Experiences and Remarks	No.8+9 Meeting Room No.1 Building
P	19:00-21:00	Poster Exhibition	Ginkgo Hall No.1 Building

5 Nov., 2019
Tuesday

Morning

Parallel sessions

No.	Time	Session topic	Venue
A2	08:30-12:00	Monitoring and sensor for water environment	No.1 Meeting Room No.1 Building
B	08:30-12:00	The fate and impact of pollutants in the environment	Zhongbei Room No.1 Building
C3	08:30-12:00	New theories and technologies for water purification	No.5 Meeting Room No.1 Building
C4	08:30-12:00	New theories and technologies for water purification	No.6 Meeting Room No.1 Building
D2	08:30-12:00	Air pollution:Sources, formation mechanisms and effects	Huiyuan Hall No.5 Building
E2	08:30-12:00	Ecological process and management	No.2 Meeting Room No.1 Building
G2	08:30-12:00	Special Workshop: Process simulation and Advanced technology for drainage system	No.8+9 Meeting Room No.1 Building
12:00-13:00		Lunch: Dongyuan, Jingyuan Restaurant, No.5 building(1 st floor)	

Program

Afternoon

Plenary session 3 and 4 and Closing ceremony

Venue: Ginkgo Hall, No.1 building (3rd floor), Xijiao Hotel

Time	Title	Speaker
Plenary Session 3 Chair: Min Hu <i>ESPC, Peking University, CN</i>		
13:30-14:00	Guidance for Photochemical O ₃ Control and Co-control of O ₃ and PM _{2.5}	Hajime Akimoto <i>National Institute of Environmental Studies, JP</i>
14:00-14:30	Chemical characteristics and toxicity of PM _{2.5} during winter haze events at Beijing (China) and Gwangju (Korea)	Kihong Park <i>Gwangju Institute of Science and Technology, KP</i>
14:30-15:00	Coffee/tea Break	
Plenary Session 4 Chair: Yanpeng Cai <i>ESPC, Beijing Normal University, CN</i>		
15:00-15:30	Multifunctional Nanocomposite Coatings for Desalination and Water Treatment	Qilin Li <i>Rice University, USA</i>
15:30-16:00	Closing Ceremony	Xia Huang <i>ESPC, Tsinghua University, CN</i>

4 Nov., 2019 Monday, Afternoon

Session A1

No.1 Meeting Room, No.1 Building

Session A1: Monitoring and sensor for water environment

Time	Title
Chair: Prof. Xiaohong Zhou, Tsinghua University, China	
13:30-14:10	Strategy to Assess Ecotoxicological Risk of Sediments with Bioassays <i>Albertinka J. Murk</i> (Wageningen University, Netherlands)
14:10-14:30	Benthic Ecotoxicological and Seafood Risk Assessment in Hangzhou <i>Qiang Cai</i> (Yangtze Delta Region Institute of Tsinghua University Zhejiang, China)
14:30-14:50	A Microsensor for the Detection of Methane in Environmental Samples <i>Tong Yu</i> (University of Alberta, Canada)
14:50-15:10	Nanoforests and Nanoforest-Based Micro Sensors <i>Haiyang Mao</i> (Chinese Academy of Sciences, China)
15:10-15:30	Genotoxicity Assessment of Drinking Water Disinfection Byproducts by DNA Damage and Repair Pathway Profiling Analysis <i>Jiaqi Lan^{1,2}, Sheikh Mokhlesur Rahman², Na Gou², Tao Jiang², Micheal J. Plewa³, Akram Alshawabkeh², and April Z. Gu^{2,4}</i> (1 Chinese Academy of Medical Sciences & Peking Union Medical College, China; 2 Northeastern University, USA; 3 University of Illinois at Urbana-Champaign, United State; 4 Cornell University, USA)
15:30-15:50	Coffee/tea Break

Time	Title
Chair: Prof. Hanchang Shi, Tsinghua University, China	
15:50-16:10	Facile Design of Enzyme and its Mimics in Novel Chem-/Bio-Sensors for Environmental Application <i>Huimin Zhao</i> (Dalian University of Technology, China)
16:10-16:30	Electrochemical Nano-Biosensors for Ultrasensitive and Rapid Detection of Environmental Endocrine Disruptors <i>Xianbo Lu</i> (Chinese Academy of Sciences, China)
16:30-16:50	Functional Nucleic Acids Biosensors for Detection of Environmental Risk Factors <i>Wentao Xu</i> (China Agricultural University, China)
16:50-17:10	Monoclonal Antibody-Based Immunoassays for Detection of Small Molecular Pollutants <i>Hongwei Zhao, Weiming Sun, Xiaotuo Jin</i> (Hainan University, China)
17:10-17:30	Fast, Label-Free Detection to Single Virus in Water <i>Lu Xinchao, Xuqing Sun, Hongyao Liu, Liwen Jiang</i> (Chinese Academy of Sciences, China)

4 Nov., 2019
Monday, Afternoon

No.5 Meeting Room, No.1 Building

Session C1: New theories and technologies for water purification

Time	Title
Chair: Prof.Chengzhi Hu, RCEES, Chinese Academy of Sciences, China	
13:30-13:50	Design High Performance RO and NF Membranes and Their Environmental Applications <i>Chuyang Tang</i> (University of Hong Kong, China)
13:50-14:10	Advanced Data Analysis for Membrane Processes Managemen <i>Benoit Teychene</i> (University of Poitier, France)
14:10-14:30	耐污染两性离子纳滤膜的构筑与性能 <i>安全福</i> (北京工业大学)
14:30-14:50	金属有机框架杂化复合纳滤膜制备与机理分析 <i>王亮</i> (天津工业大学)
14:50-15:05	Quantifying the dynamic evolution of organic, inorganic and biological synergistic fouling during nanofiltration <i>Weichen Lin¹, Mengchen Li¹, Xiaomao Wang¹, Kang Xiao², Xia Huang</i> (1. Tsinghua University, China; 2. University of Chinese Academy of Sciences, China)
15:05-15:20	A Novel Electro-Catalytic Membrane Contactor for Improving the Efficiency of Ozone on Wastewater Treatment <i>Kuiling Li^{1,2}, Lili Xu^{1,2}, Yong Zhang^{1,2}, Yujue Wang³, Haiou Huang⁴, Jun Wang^{1,2}</i> (1. RCEES, Chinese Academy of Sciences, China; 2. University of Chinese Academy of Sciences, China; 3. Tsinghua University, China; 4. Beijing Normal University, China)
15:20-15:40	Coffee/tea Break

Session C1

Time	Title
Chair: Prof. Haiou Huang, Beijing Normal University, China	
15:40-16:00	膜技术在中国水处理领域的应用 <i>郑祥</i> (中国人民大学)
16:00-16:20	吸附功能膜进展与挑战 <i>贾志谦</i> (北京师范大学)
16:20-16:40	Development of Flat-sheet Ceramic Membrane and Nano-reactors for Water or Wastewater Treatment in Integrative Ways <i>Xihui Zhang</i> (Tsinghua Shenzhen International Graduate School, China)
16:40-17:00	Feasibility of Hybrid AnMBR-NF/RO Process for Dyeing and Finishing Wastewater Treatment <i>Can Li, Bin Huang, Hang-kun GU, Chunhai Wei</i> (Guangzhou University, China)
17:00-17:20	Long-Term Low DO Decreases Nitrous Oxide Production in Membrane Bioreactors <i>Xianwei Wu, Yugao Jiang, Deyong Li, Ju Huang, Guoqiang Liu</i> (Jinan University, China)
17:20-17:35	Versatile Zero Valent Iron Applied in Anaerobic Membrane Reactor for Treating Municipal Wastewater: Performances and Mechanisms <i>Shuo Zhang¹, Yinan Zhao², Kai Yang², Wei Liu¹, Ying Xu¹, Peng Liang¹, Xiaoyuan Zhang¹, Xia Huang¹</i> (1. Tsinghua University, China; 2. Hefei University of Technology, China)
17:35-17:50	Dynamic Filtration of Bovine Serum Albumin by Carbon Nanotube Membranes <i>Yankun He, Haiou Huang</i> (Beijing Normal University, China)

4 Nov., 2019
Monday, Afternoon

No.6 Meeting Room, No.1 Building

Session C2: New theories and technologies for water purification

Time	Title
Chair: Associate Prof. Xiaoyuan Zhang, Tsinghua University, China	
13:30-13:50	A new horizon of physico-chemical water treatment processes <i>Satoshi Takizawa</i> (Tokyo University, Japan)
13:50-14:10	膜分离技术与过硫酸盐氧化 <i>田家宇</i> (河北工大)
14:10-14:30	微气泡(催化)臭氧化在难降解工业废水预处理和深度处理中的应用研究 <i>刘春</i> (河北科大)
14:30-14:45	Prediction of Micropollutant Abatement During Catalytic Ozonation Using Chemical Kinetic Models <i>Yang Guo, Yujue Wang</i> (Tsinghua University, China)
14:45-15:00	Confining Free Radicals in Close Vicinity to Contaminants Enables Ultrafast Fenton-like Processes in the Interspacing of MoS ₂ Membrane <i>Yu Chen¹, Gong Zhang², Huijuan Liu², Jiuhui Qu^{1,2}</i> (1. RCEES, Chinese Academy of Sciences, China; 2. Tsinghua University, China)
15:00-15:15	Efficient Performance of Fe-Impregnated Biochar in H ₂ O ₂ Activation and Sulfamethoxazole Degradation <i>Xiaoying Zhang^{1,2}, Peizhe Sun², Kajia Wei¹, Xia Huang¹, Xiaoyuan Zhang¹</i> (1. Tsinghua University, China; 2. Tianjin University, China)
15:15-15:30	Performance of Microbubble Ozonation Treating Synthetic Acid Red 3R Wastewater: Enhanced •OH Generation and PH Influence <i>Shoujing Zhang, Jing Zhang, Chun Liu, Lei Zhang, Xiaoxuan Chen</i> (Hebei University of Science and Technology, China)
15:30-15:50	Coffee/tea Break

Session C2

Time	Title
Chair: Prof. Guangli Liu, Sun Yat-sen University, China	
15:50-16:10	Solvothermal Synthesis of Mesoporous NiO Catalysts for Activation of Peroxymonosulfate to Degrade Organic Dyes <i>Yangqiao Liu, Yajie Gu</i> (Shanghai Institute of Ceramics, Chinese Academy of Sciences, China)
16:10-16:30	High-Efficient Catalytic Ozonation Based on C-Al ₂ O ₃ Binary Support Catalyst for Advanced Wastewater Treatment: From Lab Study to Pilot Demonstration <i>Xiaoyuan Zhang</i> (Tsinghua University, China)
16:30-16:50	Recycle of the Titanium-Coagulated Algae-Rich Sludge Toward Enhanced Photocatalytic Oxidation of the Phenolic Contaminants Through Oxygen Vacancy <i>Yuantong Chi, Yanxia Zhao</i> (University of Jinan, China)
16:50-17:05	The relationship between trace organic matter and microbial population in drinking water source of Shanghai <i>Jun Guo, Yuanyuan Zheng, Qi Zhao, Jiaxiu Song</i> (Shanghai Normal University, China)
17:05-17:20	Effects of Polystyrene Microplastics on the Growth and Photosynthetic Physiology of Red-Tide Algae <i>Phaeodactylum Tricornutum</i> Bohlin <i>Zuyin Chen, Yu Hong, Lichong Hao, Lihua Li</i> (Beijing Forestry University, China)
17:20-17:35	Co-Encapsulation of Laccase and Soybean Meal Extract onto Chitosan-Alginate Beads for Enhanced Biocatalysis Performance of Phenanthrene <i>Xinhan Chen¹, Zhen Hu¹, Huijun Xie¹, Huu Hao Ngo², Wenshan Guo², Jian Zhang¹</i> (1. Shandong University, China; 2. University of Technology Sydney, Australia)
17:35-17:50	Toxicity Changes in Nitrobenzene Biotransformation <i>Xiyin Yu, Yongming Zhang</i> (Shanghai Normal University, China)

4 Nov., 2019 Monday, Afternoon

Session D1

Huiyuan Hall No.5 Building

Session D1: Air pollution: Sources, formation mechanisms and effects

Time	Title
Chair: Prof. Hongliang Zhang, Fudan University, China	
13:30-13:55	Keynote Speech: Sulfate Formation via Particulate Nitrate Photolysis <i>Chak K. Chan</i> (City University of Hong Kong, China)
13:55-14:20	Keynote Speech: Aircraft Measurements to Determine Air Pollution Emissions and Transformation: Experience from Flying in the Oil Sands Region in Canada <i>Shaomeng Li</i> (Peking University, China)
14:20-14:40	Comparison of Different Ozone Source Apportionment Methods for Application in the North China Plain (invited) <i>Hongliang Zhang^{1,2}, Kaiyu Chen²</i> (1. Fudan University, China; 2. Louisiana State University, USA)
14:40-14:55	Substantial Emission Reductions from Chinese Power Plants after the Introduction of Ultra-Low Emissions Standards <i>Ling Tang^{1,2}, Jiabao Qu^{3,4}, Zhifu Mi⁵, Xin Bo^{3,6}, Xiangyu Chang⁷, Laura Diaz Anadon⁸, Shouyang Wang⁹, Xiaoda Xue², Shibei Li³, Xin Wang¹⁰, Xiaohong Zhao³</i> (1. Beijing University of Chemical Technology, China; 2. Beihang University, China; 3,10 Ministry of Environmental Protection, China. 4. HeBei University of Science and Technology, China; 5. University College London, UK; 6. University of Science and Technology, China; 7. Xi'an Jiaotong University, China; 8. University of Cambridge, UK; 9. Chinese Academy of Sciences, China)
14:55-15:10	Determination of Filter Bed Structure Characteristics and Influence on Performance of a 3D Matrix Biofilter in Gaseous Chlorobenzene Treatment <i>Meng-Fei Han, Can Wang</i> (Tianjin University, China)
15:10-15:25	Scalable Synthesis of Water-Dispersible Manganese Dioxide Monosheets for Carcinogenic Airborne Formaldehyde Catalytic Oxidation <i>Shaopeng Rong¹, Fang Liu²</i> (1. Nanjing University of Science and Technology, China; 2. China Academy of Building Research, China)
15:25-15:45	Coffee/tea Break

Time	Title
Chair: Prof. Wei Hu, Tianjin University, China	
15:45-16:00	Pervasive but Limited Influence of Biomass Burning on Atmospheric Ammonia in the Heartland of Southeast Asia <i>Yunhua Chang¹, Qian Wang¹, Deyou Meng¹, Wenhui Song¹, Geng Chen¹, Sawaeng Kawichai², Martin Van Damme³, Lieven Clarisse³, Tippawan Prapamontol², and Yan-Lin Zhang¹</i> (1. Nanjing University of Information Science & Technology, China; 2. Chiang Mai University, Thailand; 3. Université Libre de Bruxelles (ULB), Belgium)
16:00-16:15	Airborne Bacteria Associated with Dust Particles in the Asian Continental Outflow <i>Hu Wei¹, Murata Kotaro², Fu Pingqing¹, Zhang Daizhou²</i> (1. Tianjin University, China; 2. Prefectural University of Kumamoto, Japan)
16:15-16:30	Measurement of NOx Level, Partitioning and Budget in the Marine Boundary Layer of Bermuda <i>Youfeng Wang¹, Yuting Zhu², Chunxiang Ye¹, Xianliang Zhou^{2,3}, Yasin Elshorbany⁴, Matthew Hayden⁵, and Andrew J. Peters⁵</i> (1. Peking University, China; 2. New York State Department of Health, USA; 3. State University of New York, USA; 4. University of South Florida, USA; 5. Bermuda Institute of Ocean Sciences, Bermuda)
16:30-16:45	Aviation's Emissions and Contribution to the Air Quality in China <i>Xin Bo^{1,2}, Xiaoda Xue³, Jun Xu⁴, Xiaohui Du^{4,5}, Beihai Zhou¹, Ling Tang³</i> (1. University of Science and Technology Beijing, China; 2. Ministry of Environmental Protection, China; 3. Beihang University; 4. Chinese Research Academy of Environmental Sciences, China; 5. Beijing Normal University, China)
16:45-17:00	HUMic Like Substances Trigger Heterogeneous Ice Nucleation <i>Jie Chen¹, Zhijun Wu¹, Jingchuan Chen¹, Haoxuan Chen¹, Yujue Wang¹, JiaNan Cui¹, BingBing Wang³, Maosheng Yao¹, Heike Wex², Min Hu¹</i> (1. Peking University, China; 2. Leibniz Institute for Tropospheric Research, Germany)
17:00-17:15	Biological Ice Nucleation Particles in Urban Tianjin in Summer 2019 <i>Shu Huang¹, Wei Hu¹, Jie Chen², Jingchuan Chen², Xiangyu Pei³, Zhijun Wu², Pingqing Fu¹</i> (1. Tianjin University, China; 2. Peking University, China; 3. University of Gothenburg, Sweden)
17:15-17:30	An IBBCEAS System for Atmospheric Measurements of Glyoxal and Methylglyoxal in the Presence of High NO2 Concentrations <i>Jingwei Liu^{1,3}, Xin Li^{1,2,3}, Yiming Yang^{1,3}, Haichao Wang¹, Yusheng Wu^{1,a}, Xuwei Lu⁴, Mindong Chen², Jianlin Hu², Limin Zeng^{1,3}, and Yuanhang Zhang^{1,3}</i> (1. Peking University, China; 2. Nanjing University of Information Science & Technology, China; 3. Ministry of Education, China; 4. Institute of Chemistry, Chinese Academy of Sciences, China; 5. University of Helsinki, Finland)
17:30-17:45	Ice Nucleation of Size-Selected Mineral Dust in Beijing <i>Jingchuan Chen¹, Jie Chen¹, Zhijun Wu¹</i> (Peking University, China)
17:45-18:00	Online Source Apportionment Research of Particulate Matter Based on Receptor Model <i>Feng Wang, Guoliang Shi</i> (Nankai University, China)

4 Nov., 2019 Monday, Afternoon

Session E1

No.2 meeting Room, No.1 Building

Session E1: Ecological process and management

Time	Title
Chair: Prof. Yutao Wang, Fudan university, China	
13:30-14:00	High Resolution Modeling of Sociometabolic Transition <i>Gang Liu</i> (University of Southern Denmark, The Danish)
14:00-14:30	Sustainable Phosphorus Supply for Maintaining Food Security in China? <i>Zengwei Yuan</i> (Nanjing University,China)
Chair: Prof. Gang Liu, University of southern Denmark, The Danish	
14:30-15:00	Multidimensional Consideration on Land System Changes Towards the Ecological Civilization <i>Xiangzheng Deng</i> (Chinese Academy of Sciences, China)
15:00-15:30	Linking Ecological System to Social-Economic System in the Context of Climate Change: Challenge and Progress <i>Yutao Wang</i> (Fudan University, China)
15:30-15:50	Coffee/tea Break
Chair: Prof. Xiangzheng Deng, Chinese Academy of Sciences, China	
15:50-16:20	CO ₂ Emission and Human Development in Chinese Cites <i>Ya zhou</i> (Guangdong University of Technology, China)
16:20-16:50	海绵建设背景下的城市非点源污染评价模型开发与应用 <i>陈磊</i> (北京师范大学, 中国)
Chair: Prof. Zengwei Yuan, Nanjing University, China	
16:50-17:20	珠江三角洲区域城市能源代谢特征研究 <i>冯景春</i> (广东工业大学, 中国)
17:20-17:50	Habitat Suitability Modelling <i>Yujun Yi</i> (Beijing Normal University, China)

Session F

Zhongbei Meeting Room, No.1 Building

Session F: Nanofiltration for Water Treatment

Time	Title
13:20-13:30	Welcome speech by <i>Prof. Xia Huang</i> , Chair of IWA Membrane Specialist Group
Chair: <i>Prof. Heng Liang</i> , Harbin Institute of Technology, China	
13:30-13:50	Selective nanochannels created by metal organic frameworks in nanofiltration membranes enhance removal of trace organic contaminants <i>Prof. Zhiwei Wang</i> (Tongji University, China)
13:50-14:10	Nanofiltration membrane selectivity: mechanisms, regulation and applications <i>Prof. Jianquan Luo</i> (Institute of Process Engineering, Chinese Academy of Sciences, China)
14:10-14:30	Design, fabrication and application of high-performance thin film nanocomposite membranes <i>Prof. Zhining Wang</i> (Shandong University, China)
14:30-14:50	Nanofiltration membranes for selective separation of trace organic compounds and divalent cations <i>Dr. Xiaomao Wang</i> (Tsinghua University, China)
14:50-15:10	Simultaneous electro-oxidation and in situ electro-peroxone process for the T degradation of refractory organics in leachate concentrates <i>Dr. Dawei Liang</i> (Beihang University, China)
15:10-15:30	Removal of organic matter and heavy metals in water by nanofiltration membrane and its pollution characteristics and control <i>Prof. Wenzheng Yu</i> (Research Center for Eco-Environmental Sciences, Chinese Academy of Sciences, China)
15:30-15:50	Coffee/tea Break

4 Nov., 2019
Monday, Afternoon

Session F

Time	Title
Chair: <i>Dr. Xiaomao Wang</i> , Tsinghua University, China	
15:50-16:10	Design membranes for the removal of micropollutants <i>Prof. Chuyang Tang</i> (The University of Hong Kong, China)
16:10-16:30	How to define NF's application in drinking water production in China <i>Prof. Heng Liang</i> (Harbin Institute of Technology, China)
16:30-16:50	Microporous organic polymers-based membranes for molecular and ionic separation <i>Prof. Liping Zhu</i> (Zhejiang University, China)
16:50-17:10	Characterization of concentration polarization in nanofiltration and its control by membrane patterning <i>Dr. Feiyun Sun</i> (Harbin University of Technology (Shenzhen), China)
17:10-17:30	Covalent organic frameworks embedded membrane via acetic-acid-catalyzed interfacial polymerization: enhanced permeability and selectivity <i>Prof. Shengji Xia</i> (Tongji University, China)
17:30-17:50	Optimization of thin film composite nanofiltration membranes formation conditions based on tuning of substrate <i>Prof. Baicang Liu</i> (Sichuan University, China)

Session G1

No.8+9 Meeting Room No.1 Building

Session G1: Process simulation for Drainage System

Time	Title
Chair: <i>Dr. Yanchen Liu</i> , Tsinghua University, China	
13:30-13:35	Opening Speech <i>Prof. Xia Huang</i>
Chair: <i>Dr. Yanchen Liu</i> , Tsinghua University, China <i>Dr. Yi Hong</i> , Université d'Orléans, Ecole des ponts PatisTech, France	
13:35-14:05	Keynote Speech: Air flow modeling in sewers <i>Prof. David Zhu</i> (University of Alberta, Canada)
14:05-14:25	Impacts of harmful gas in gravity sewers by the natural pulsed airflow from drainage riser <i>Prof. Jinsuo Lu</i> (Xi'an University of Architecture and Technology, China)
14:25-14:45	New insights into the urban wash off process with detailed physical modelling <i>Dr. Yi Hong</i> (Université d'Orléans, Ecole des ponts PatisTech, France)
14:45-15:05	Experimental and modeling investigations of hydrogen sulfide formation and control strategies in large-scale sewer systems <i>Prof. Feng Jiang</i> (South China Normal University, China)
15:05-15:25	Key smart components for establishing the holistic decision support system to supervise the urban receiving water bodies <i>Prof. Jiping Jiang</i> (Southern University of Science and Technology, China)
15:25-15:45	Sponge City in Berlin (Germany) - Transfer of extensive green roof performance and design to Beijing climatic conditions <i>Dr. Ulf Miehe</i> (Berlin Center for Competence in Water (KWB), Germany)
15:45-16:00	Coffee/tea Break

4 Nov., 2019
Monday, Afternoon

Session G1

Time	Title
Chair: Prof. Jiane Zuo, Tsinghua University, China Prof. Feng Jiang, South Normal University, China	
16:00-16:30	Keynote Speech: Bioretention for stormwater management – Expanding the boundaries <i>Prof. Tong Yu</i> (University of Alberta, Canada)
16:30-16:50	Integration of sewer wastewater characterisation and wastewater treatment plant simulation for control purpose in cold climate area <i>Dr. Xiaodong Wang, Prof. Harsha Ratnaweera</i> (Qingdao University of Technology, China; Norwegian University of Life Sciences, Norway)
16:50-17:10	Innovative full-scale plant designs for energy neutrality and resource recovery using SUMO <i>Dr. Ferenc Házi</i> (Dynamita, France)
17:10-17:30	Evaluation of infiltration/inflow to drainage systems as an important component of pollution control <i>Dr. Kai Klepiszewski</i> (NIVUS GmbH, Germany)
17:30-17:45	Coupling SWMM and CADDIES models for better assessing runoff quantity control of LID facilities on community scale <i>Dr. Dingkun Yin, Prof. Haifeng Jia</i> (Tsinghua University, China)
17:45-18:00	Integrated operation and management for sulfide control in sewer system <i>Dr. Yanchen Liu</i> (Tsinghua University, China)

Session H

No.3 Meeting Room No.1 Building

Session H: "Five water co-governance " in Yiwu

Time	Title
Chair: Prof. Dongsheng Wang, RCEES, Chinese Academy of Sciences, China	
13:30~13:50	New water treatment plant: a full practice in Yiwu <i>Dongsheng Wang</i> (RCEES, Chinese Academy of Sciences, China)
13:50~14:10	“Five water co-governance ” in Yiwu: evaluation of version 1.0 and long-term model construction of version 2.0 <i>Shengjun Xu</i> (RCEES Chinese Academy of Sciences, China)
14:10~14:30	Strategies for drinking water source protection and water quality improvement in Yiwu--an example from Yankou Reservoir <i>Honggang Zhang</i> (RCEES, Chinese Academy of Sciences, China)
14:30~14:50	义乌市水处理有限责任公司出水水质提升探索 <i>傅信党</i> (义乌市水处理有限责任公司, 中国)
14:50~15:10	Flow-through photoanodes: preparation and application on degrading aqueous pollutants <i>Zhenao Gu</i> (RCEES, Chinese Academy of Sciences, China)
15:10~15:30	The ecological and intelligent strategies of Five Water Co-governance in Yiwu <i>Yuan Quan</i> (RCEES, Chinese Academy of Sciences, China)

4 Nov., 2019
Monday, Evening

Writing Workshop

No.1 Meeting Room, No.1 Building
Writing Workshop

Time	Title	Presenter
19:00-19:05	Opening remarks	Dr. Fang Zhang Associate Professor, Tsinghua University
19:05-19:30	Strategies and tips for writing impactful scientific papers	Dr. James Tiedje Professor, Michigan State University
19:30-19:50	Less is More	Dr. Bruce Rittmann Professor, Arizona State University
19:50-20:10	Ways to make your manuscript peer-review ready for high impact journals	Dr. Donald Huisinck Professor, University of Tennessee
20:10-20:30	What's fundamental to write a good paper — structure	Dr. Ai-qun Liu Professor, Nanyang Technological University
20:30-21:00	Open discussion	

Salon

No.8+9 Meeting Room, No.1 Building
Salon: Night of PhD and Postdoc
How to Learn and Work Efficiently: Experiences and Remarks

Time	
18:30-19:00	Coffee/Break
19:00-19:05	Opening Remarks by Min Hu
Session A: experiences share by senior scientists (Chair: Keding Lu)	
19:05-19:15	Andreas Wahner (Germany)
19:15-19:25	Hajime Akimoto (Japan)
19:25-19:30	Questions and Discussions
Session B: experiences share by senior scientists (Chair: Xin Li)	
19:30-19:40	Sunning Gong (Canada)
19:40-19:50	Yuanxun Zhang (China)
19:50-19:55	Questions and Discussions
Session C: experiences share by postdocs (Chair: Wen Liu)	
19:55-20:00	Haichao Wang (China)
20:05-20:10	Robert Woodward-Massey (UK)
20:10-20:15	Yujie Wang (China)
20:15-20:20	Haodong Ji (China)
20:20-20:25	Questions and Discussions
Session D: discussions and performance (Chair: Huan Liu)	
20:25-21:00	General discussions and Remarks

5 Nov., 2019
Tuesday, Morning

No.1 Meeting Room, No.1 Building

Session A2: Monitoring and sensor for water environment

Time	Title
Chair: Dr. Xianbo Lu, Chinese Academy of Sciences, China	
8:30-9:00	Waterborne Pathogens Detection Using Optofluidic Chip <i>Ai-qun Liu</i> (Nanyang Technological University, Singapore)
9:00-9:20	Microfluidic Chips and Nanomaterials Based Rapid On-Site Detection Devices for Microbiological Cells in Water <i>Lei Zhou</i> (Chinese Academy of Sciences, China)
9:20-9:40	Enhanced Photoelectric Conversion Efficiency of Photoelectrochemical Aptasensor for Organic Pollutant Detection <i>Lin Tang</i> (Hunan University, China)
9:40-10:00	Evanescence Wave Dual-Color Fluorescence Biosensor and its Applications <i>Feng Long</i> (Renmin University of China, China)
10:00-10:20	Water Quality Multi-Parameters On-Line Analyzer Based on UV-VIS Absorption <i>Baodong Song</i> (Institute of Environmental Engineering, Beijing Institute of Collaborative Innovation, China)
10:20-10:40	Quantifying Femtomole Level Lead (II) Ions by Conducting Electric Charges of DNAzyme Cleavage <i>Cheng Wang</i> (Tianjin Normal University, China)
10:40-11:00	Coffee/tea Break

Session A2

Time	Title
Chair: Dr. Lanhua Liu, Tsinghua University, China	
11:00-11:10	A Hybrid Thin Film Electrode for Quantitative Photoelectrochemical Detection Paracetamol <i>Kai Gao, Xue Bai</i> (Hohai University, China)
11:10-11:20	Fluorescent and Physicochemical Features of Dissolved Organic Matters in Metalworking Fluid <i>Jian Shen^{1,2}, Bo Liu^{1,2}, Jing Wu^{1,2}, Yidi Chai^{1,2}, Cheng Cheng^{1,2}, Chuanyang Liu^{1,2}, Rui Yan³, Muhammad Farooq Saleem Khan^{1,4}</i> (1 Tsinghua University, China; 2 Research Institute for Environmental Innovation (Suzhou) Tsinghua, China; 3 Gaobeidian WWTP, China; 4 Soochow University, China)
11:20-11:30	Optimizing the Synthesis of Carbon Dots for Use in Rapid Detecting Cr(VI) in Aqueous Media <i>Hao Zhang, Yuansheng Pei</i> (Beijing Normal University, China)
11:30-11:40	Selective Detection of 17 β -Estradiol in Water Using an Integrated Aptamer-Based Graphene Biosensor <i>Yijun Li¹, Yibo Zhu², Cheng Wang¹, Qiao Lin², Miao He¹</i> (1 Tsinghua University, China; 2 Columbia University, USA)
11:40-11:50	Monitoring PM2.5 and Gas Pollutants in Indoor and Road Environments Using a Portable Sensor <i>Jiali Zhu¹, Qi Wang¹, Jing Shang¹, Tong Zhu¹, Ryozo Takasu², Dingyi Yan³, Masao Kondo³</i> (1 Peking University, China; 2 Fujitsu Laboratories Ltd, Japan; 3 Fujitsu Research and Development Center Co., Ltd, China)
11:50-12:00	Evanescence Wave Aptasensor for On-Line Mercury Ions Detection <i>Yangyang Chen^{1,2#}, Ruoyu Wang^{1#}, Zhenchuan Yang², Xiaohong Zhou^{1,3}</i> (1 Tsinghua University, China; 2 Peking University, China; 3 National Engineering Laboratory for advanced technology and equipment of water environment pollution monitoring, China)
12:00-12:10	Analysis on Pollution Characteristics and Sources of Black Carbon Aerosols in Southern Suburbs of Shijiazhuang <i>Jingjing Lu¹, Yanan Guan^{1,2}, Erhong Duan^{1,2}</i> (1 Hebei University of Science and Technology, China; 2 National Joint Local Engineering Research Center for Volatile Organic Compounds and Odorous Pollution Control, China)

5 Nov., 2019
Tuesday, Morning

Zhongbei Meeting Room, No.1 Building

Session B: The fate and impact of pollutants in the environment

Time	Title
Chair: Prof. Geng Hong, Shanxi University, China	
08:30-08:45	Content and Difference of Nutrients and Trace Metals in Sediments from Complex Fragmented Wetland <i>Zehua Ji, Ziwei Long, Yuansheng Pei</i> (Beijing Normal University, China)
08:45-09:00	Inflammatory Responses of Healthy Adults to Changes in Short-Term Ozone Exposure <i>Xinyan Hu^{1,2}, Linchen He³, Junfeng Zhang^{3,1,2,7}, Xinghua Qiu^{1,2}, Yiping Zhang⁴, Jinhan Mo⁴, Drew B Day⁵, Jianbang Xiang⁶, Jicheng Gong^{1,2}</i> (1.2. Peking University, China; 3. Duke University, United States; 4. Tsinghua University, China; 5. Seattle Children's Research Institute, United States; 6. University of Washington, United States; 7. Duke Kunshan University, China)
09:00-09:15	Fate of Polycyclic Aromatic Hydrocarbons among Soil-Water-Air-Plant in Enclosed Microcosms -the Role of Climate Warming <i>Jian Chen, Xinghui Xia</i> (Beijing Normal University, China)
09:15-09:30	Study on Ozone Pollution Characteristic and Influencing Factors in Shijiazhuang Urban Area in Summer <i>Guan Yanan^{1,2}, Zhang Yihao¹, Zhang Yisen¹, Wang Shujuan³, Han Jing^{1,2}, Duan Erhong^{1,2}</i> (1. Hebei University of Science and Technology, China; 2. National Joint Local Engineering Research Center for Volatile Organic Compounds and Odorous Pollution Control, China; 3. Hebei Province Environmental Monitoring Center, China)
09:30-09:45	Kinetics, Mechanisms and SOA Yields of Cl-Initiated Oxidations of C ₁₂ -C ₁₄ N-Alkylcyclohexanes <i>Ke Wang, WeiGang Wang, MaoFa Ge,</i> (Institute of Chemistry Chinese Academy of Sciences; China)
09:45-10:00	Sludge Conditioning by Acidification - Potassium Ferrate Oxidation - Flocculation and Application of Sludge-based Biochar <i>Tianrun Wang¹, Qinyun Zhu¹, Shike Zhang¹, Qi Shi¹, Junsen Wang¹, Hongtao Wang^{1,2}</i> (1. Tongji University, China; 2. State Key Laboratory of Pollution Control and Resource Reuse, China)
10:00-10:20	Coffee/tea Break

Session B

Time	Title
Chair: Prof. Wang Hui, Tsinghua University, China	
10:20-10:35	More N-Containing Fine Particulate Matter Were Identified inside than Outside the Piggery Using Low-Z (Atomic Number) Particle Electron Probe X-Ray Microanalysis <i>Chen Zhang^{1,2}, Hong Geng¹, Xiaojiao Feng^{1,2}, Chul-Un Ro³</i> (1,2. Shanxi University, China; 3. Inha University, Republic of Korea)
10:35-10:50	大气细颗粒物疏水性有机组分个体暴露特点及其与炎性生物标志物的关联 <i>蒋幸, 邱兴华, 韩铁群, 朱彤</i> (北京大学)
10:50-11:05	Adsorption of Tylosin on Iron Rich Soil and Its Degradation by Heterogeneous Fenton System Formed by Soil and Persulfate <i>Lin Luo-Ying, Hu Xing-Bao, Chong Yun-Xiao</i> (South China Agricultural University, China)
11:05-11:20	Polyacrylamide (PAM) Degradation and Methane Production by Thermophilic Anaerobic Digestion: Effect of Ph <i>Mona Akbar¹, Muhammad Farooq Saleem Khan^{1,2,3,4}, Wang Hui¹</i> (1,2. Tsinghua University, China; 3. Soochow University, China; 4. Suzhou Purification Equipment Company LTD (SPECO), China)
11:20-11:35	Effect of Applied Voltage on The Performance of Microbial Electrolysis Desalination and Chemical-Production Cell <i>Songwei Lin, Yaobin Lu, Cuiping Zeng, Haiping Luo, Guangli Liu, Renduo Zhang</i> (Sun Yat-sen University, China)
11:35-11:50	Sulfadiazine Degradation in Soils Dynamics, Functional Gene, Antibiotic Resistance Genes and Microbial Community <i>Jianfei Chen¹, Xinshu Jiang², Tianli Tong¹, Sun Miao¹, Jun Huang², Shuguang Xie¹,</i> (1. Peking University, China; 2. Tsinghua University, China)
11:50-12:05	Nitrifying bacteria with function for biodegradation of p-nitrophenol <i>Chenyuan Zhang, Xiyin Yu, Yongming Zhang</i> (Shanghai Normal University, China)

5 Nov., 2019
Tuesday, Morning

No.5 Meeting Room, No.1 Building

Session C3: New theories and technologies for water purification

Time	Title
Chair: Prof. Feng Xiao, North China Electric Power University, China	
8:30-8:50	Improved Hydrogen Production in the Single-Chamber Microbial Electrolysis Cell with Inhibiting Methanogenesis Under Alkaline Conditions <i>Guangli Liu</i> (Sun Yat-sen University, China)
8:50-9:10	Deposition and Separation of W and Mo From Aqueous Solutions with Simultaneous Hydrogen Production in Stacked Bioelectrochemical Systems (BESs) under Continuous Operation: Impact of Influent Feeding Mode and dissolved oxygen <i>Zijing Xu¹, Liping Huang¹, Ming Li¹, Jinhui Yang²</i> (Dalian University of Technology, China)
9:10-9:30	The Electro-Peroxone Process for Micropollutant Removal and By-Product Control in Water and Wastewater Treatment <i>Yujue Wang</i> (Tsinghua University, China)
9:30-9:50	Electrochemical Oxidation of Tetracycline over a Ti/Ti ₄ O ₇ Anode: Degradation Pathway and Intermediate Toxicity <i>Jianbing Wang</i> (China University of Mining and Technology-Beijing, China)
9:50-10:05	Pharmaceutical Removal by an Electrochemically Driven UV/Chlorine Process <i>Yinqiao Zhang, Gang Yu, Yujue Wang</i> (Tsinghua University, China)
10:05-10:25	Coffee/tea Break

Session C3

Time	Title
Chair: Prof. Yujue Wang, Tsinghua University, China	
10:25-10:45	Activation of Peroxymonosulfate by Sp(2)-Hybridized Microalgae-Derived Carbon for Ciprofloxacin Degradation: Importance of Pyrolysis Temperature <i>Feng Xiao</i> (North China Electric Power University, China)
10:45-11:05	Performance of a Pilot-Scale Microbial Electrolysis Desalination and Chemical-Production Cell for Flue Gas Desulfurization Wastewater Treatment <i>Bo Ye^{1,2}, Guangli Liu¹</i> (1.Sun Yat-sen University, China ;2 Zhongkai University of Agriculture and Engineering, China)
11:05-11:20	Phosphorus Removal Improvement of Constructed Wetland Through Bio-Augmentation: Addition of Plant Growth Promoting Rhinobacteria (PGPR) <i>Mingde Ji, Jian Zhang, Zhen Hu</i> (Shandong University, China)
11:20-11:35	Proteinaceous Dissolved Organic Matter Removal During Drinking Water Treatment Process <i>Mengya Li, Haiou Huang</i> (Beijing Normal University, China)
11:35-11:50	Degradation Kinetics and Mechanism of Perfluorooctanoic Acid over Pb-BiFeO ₃ /RGO Photocatalyst <i>Jiajun Duan, Yuan Liu, Yang Li</i> (Beijing Normal University, China)

5 Nov., 2019
Tuesday, Morning

No.6 Meeting Room, No.1 Building

Session C4: New theories and technologies for water purification

Time	Title
Chair: Prof. Shaokui Zheng, Beijing Normal University, China	
8:30-8:50	硝酸盐 (NO ₃ -N) 调控: 污水生物脱氮的新视角? 魏源送 (中国科学院生态环境研究中心)
8:50-9:10	A/O 生物脱氮工艺增效节能潜力与机理 郑少奎 (北京师范大学)
9:10-9:30	The Recovery of Phosphate from Train Toilet Wastewater Using a Pilot Fluidized Bed Reactor Through Experiments and Modeling Fangyu Lin, Kangning Xu (Beijing Forestry University, China)
9:30-9:45	3D Carbon Mesh Electrode for Biohythane Generation and Ammonia Recovery in Microbial Electrolysis Cell Shuai Luo, Boya Fu, Fubin Liu, Xiaoyuan Zhang, Peng Liang, Xia Huang (Tsinghua University, China)
9:45-10:05	Coffee/tea Break

Session C4

Time	Title
Chair: Prof. Yuansong Wei, RCEES, Chinese Academy of Sciences, China	
10:05-10:25	城市径流污染物于透水铺装系统的迁移与去除效能 李海燕 (北京建筑大学)
10:25-10:45	Interactions between Nano/Micro Plastics and Suspended Sediment in Water: Implications on Aggregation and Settling Yang Li, Xinjie Wang, Jian Zhao, Xinghui Xia (Beijing Normal University, China)
10:45-11:05	Dynamic Fate Modelling of 36 Antibiotics Based on High Spatial Precision Emission Inventory in the Dongjiang River Basin, China: Implication for Antibiotic Resistance Risk Shao-Xuan Zhang, Qian-Qian Zhang, Guang-Guo Ying (South China Normal University, China)
11:05-11:25	The Role of Magnetic Seeds and Field in Improving Bio-Flocculation-Based Sewage Organic Resource Recovery Shuting Chen, Huimin Ou, Hongyue Liang, Wenju Liu, Zhengyu Jin (Minzu University of China)
11:25-11:40	Comprehensive Delineation of Source Water Antibiotic Resistome and its Interactive Drivers at Continental Scale Ziming Han ^{1,2} , Yu Zhang ^{1,2} , Wei An ¹ , Junying Lu ^{1,2} , Min Yang ^{1,2} (RCEES, Chinese Academy of Sciences, China)
11:40-11:55	Spatiotemporal Variation of Water Quality and its Driving Force in Baiyangdian Lake Huanhuan Wang, Yanwei Zhao (Beijing Normal University, China)

5 Nov., 2019
Tuesday, Morning

Huiyuan Hall No.5 Building

Session D2: Air pollution: Sources, formation mechanisms and effects

Time	Title
Chair: Prof. Meng Gao, Hong Kong Baptist University, China	
08:30-08:50	China's Clean Air Action Has Suppressed Unfavorable Influences of Climate on Wintertime PM _{2.5} Concentrations in Beijing Since 2002 (invited) <i>Meng Gao¹, Zirui Liu², Bo Zheng³, Dongsheng Ji², Peter Sherman⁴, Shaojie Song⁴, Jinyuan Xin², Cheng Liu⁵, Yuesi Wang², Qiang Zhang³, Jia Xing⁶, Jingkun Jiang⁶, Zifa Wang², Gregory Carmichael⁷, Michael McElroy⁴</i> (1. Hong Kong Baptist University, China; 2. Institute of Atmospheric Physics, Chinese Academy of Sciences, China; 3,6 Tsinghua University, China; 4. Harvard University, USA; 5. University of Science and Technology of China, China; 7. University of Iowa, USA)
08:50-09:05	Reactive Nitrogen Flux Measurement in the Tibetan Plateau <i>Chunxiang Ye¹ and @Tibet Group</i> (Peking University, China)
09:05-09:20	The Reaction Kinetics of Ozone/SO ₂ with Soot Particles Dependent upon RH: Potential for Environmental and Health Effects <i>Xiang He^{1,2}, Yun-Hong Zhang²</i> (1. Xinjiang University, China; 2. Beijing Institute of Technology, China)
09:20-09:35	Residential Coal Combustion: An Important but Overlooked Primary Source of Atmospheric Sulfate during Heating Season <i>Qili Dai¹, Xiaohui Bi¹, Philip K. Hopke, Yinchang Feng¹</i> (1. Nankai University, China; 2. Clarkson University, USA; 3. University of Rochester School of Medicine and Dentistry, USA)
09:35-09:50	Physicochemical Properties of Ambient Particles in a Typical Transition from Heavy Haze to Dust Storm during the Late Winter 2013 in Beijing <i>Wang Zihan¹, Hu Wei^{1,2}, Niu Hongya^{2,3}, Wu Yusheng², Chen Chen², Zhang Daizhou⁴, Hu Min², Fu Pingqing¹</i> (1. Tianjin University, China; 2. Peking University, China; 3. Hebei University of Engineering, China; 4. Prefectural University of Kumamoto, Japan)
09:50-10:05	Isomeric Identification of Particle-Phase Organic Nitrates through Gas Chromatography and Time-of-Flight Mass Spectrometry Coupled with Electron Capture Ionization <i>Xiaodi Shi¹, Xinghua Qiu¹, Zhen Cheng¹, Qi Chen¹, Ynon Rudich², Tong Zhu¹</i> (1. Peking University, China; 2. Weizmann Institute of Science, Israel)

Session D2

10:05-10:20	Investigating Aerosol Aging Processes in High-resolution Based on Single Particle Mass Spectrometry <i>Jiaoxu¹, RuoyuMa², Qiuju Lin¹, MeiLi³, Yinchang Feng¹</i> (1, 2 Nankai University, China; 3. Jinan University, China)
10:20-10:40	Coffee/tea Break
Chair: Prof. Chunxiang Ye, Peking University, China	
10:40-10:55	Kinetic and Mechanism of the Gas Phase Reaction of Cl with 3-Methylhexane and 2-Methylheptane <i>Yan Chen^{1,2}, Weigang Wang^{1,2}, Maofa Ge^{1,2,3}</i> (1. Institute of Chemistry, Chinese Academy of Sciences, China; 2. University of Chinese Academy of Sciences, China; 3. Institute of Urban Environment, Chinese Academy of Sciences, China)
10:55-11:10	Mixing State and Hygroscopicity of Atmospheric Particles in the City of Beijing <i>Yishu Zhu¹, Peter A. Alpert², Zhijun Wu¹, Markus Ammann²</i> (1. Peking University, China; 2. Paul Scherrer Institute (PSI), Switzerland)
11:10-11:25	Volatile Organic Compounds Characteristics in the Tibetan Plateau <i>Yaru Wang¹, Chunxiang Ye¹ and @Tibet group</i> (Peking University, China)
11:25-11:40	Humidity-Dependent Phase State of SOA Particles Formed from the Oxidation of Gasoline Vehicle Emissions <i>Xiangxinyue Meng¹, Yuechen Liu¹, Hui Wang¹, Kefan Liu¹, Song Guo¹, Min Hu¹, Zhijun Wu¹</i> (Peking University, China)
11:40-11:55	Spatial Distribution of Bvocs in Forests by UAV Monitoring Platform <i>Tianjiao Jia¹, Xi Cheng¹, Yan Zheng¹, Ben Liu², Jiayin Sun³, Yaowei Li¹, Yue Liang³, Jian Tan³, Yongjie Li², Qi Chen¹</i> (1. Peking University, China; 2. University of Macau, China; 3. Jinan University, China)
11:55-12:10	WRF-GC Online Coupling of WRF and GEOS-Chem for Regional Atmospheric Chemistry Modeling <i>Xu Feng¹, Haipeng Lin^{1,4}, Tzung-May Fu^{2,3}, Heng Tian¹, Yaping Ma¹, Lijuan Zhang¹, Robert M. Yantosca⁴, Melissa P. Sulprizio⁴, Elizabeth W. Lundgren⁴, Jiawei Zhuang⁴, Daniel J. Jacob⁴, Qiang Zhang⁵</i> (1. Peking University, China; 2,3 Southern University of Science and Technology, China; 4. Harvard University, USA; 5. Tsinghua University, China)

5 Nov., 2019
Tuesday, Morning

No.2 Meeting Room, No.1 Building

Session E2: Ecological process and management

Time	Title
Chair: Prof. Yanpeng Cai, Beijing Normal University, China	
08:30-08:45	Volatile Hydrocarbons Build-Up on Urban Roads: Implications for Improving Stormwater Quality Modelling Approaches <i>Buddhi Wijesiri^{1,2}, Ashantha Goonetilleke^{1,2}, An Liu^{1,2}</i> (1.Shenzhen University, China; 2.Queensland University of Technology (QUT), Australia)
08:45-09:00	Spatio-Temporal Evolution Scenarios and the Coupling Analysis of Ecosystem Services with Land Use Change in China <i>Yongxiu Sun¹, Shiliang Liu¹, Yuhong Dong², Yi An¹, Fangning Shi¹, Shikui Dong¹, Guohua Liu³</i> (1.Beijing Normal University, China; 2 .Chinese Academy of Forestry, China; 3. Chinese Academy of Sciences, China)
09:00-09:15	Simulation and Prognostion of Aquatic Food Web in Sag Pond, Southwest China <i>Xiaoyan Xu¹, Yan Xu², Jianfeng Peng², Chunrong Wang¹,</i> (1.China University of Mining & Technology, China; 2.Tsinghua University, China)
09:15-09:30	Enhanced Performance in Microbial Electrosynthesis Biocathode Enriched by Polypyrrole-Coated Acetogens <i>Jiixin Qi¹, Cuiping Zeng¹, Haiping Luo¹</i> (1. Sun Yat-sen University, China)
09:30-09:45	Toxicological Responses of Fe ₃ O ₄ Nanoparticles on Eichhornia Crassipes and Associated Plant Transportation <i>Yuanyuan Ding¹, Xue Bai¹, Zhengfang Ye², Lingyu Ma¹, Lu Liang¹</i> (1. Hohai University, China; 2. Peking University, China)
09:45-10:00	Quantitative Analysis of the Material, Energy and Value Flows of a Lead-Acid Battery System and its External Performance <i>Yu Yanxu, Mao Jiansu</i> (Beijing Normal University, China)
10:00-10:20	Coffee/tea Break

Session E2

Time	Title
Chair: Dr. Jingchun Feng , Guangdong university of Technology, China	
10:20-10:35	Environmental Implications of China's Ban on Post-Consumer Plastics Import_Yanan Ren_Tsinghua University <i>Yanan Ren¹, Lei Shi¹, André Bardow², Roland Geyer³, Sangwon Suh³</i> (1.Tsinghua University, China; 2. RWTH Aachen University, Germany; 3. University of California, United States)
10:35-10:50	Improvement of Gray Water Footprint Calculation Method and its Application <i>Hui Li^{1,2}, Zhifeng Yang^{1,2}, Gengyuan Liu²</i> (1. Guangdong University of Technology, China; 2. Beijing Normal University, China)
10:50-11:05	A Review of Research on Ecological Environment Changes in Baiyangdian in Recent 50 Years <i>Liu S C¹, Zhao Y W</i> (1. Beijing Normal University, China)
11:05-11:20	Control of Filamentous Algae Growth in Reclaimed Water <i>Shuaiqiang Gao¹, Huihuang Shao², Chunyin Bai³, Yunxiao Chong¹</i> (1.South China Agricultural University, China; 2.Beijing Municipal Engineering Design and Research Institute Co, China; 3. Nanning North Drainage Environment Development Co, China)

No.8+9 Meeting Room No.1 Building

Session G2: Advanced technology for wastewater treatment

Time	Title
Chair: Dr. Yanchen Liu, Tsinghua University, China	
08:30-08:55	Keynote Speech: Application of sulfur autotrophic denitrification in advanced nitrogen removal of municipal wastewater <i>Prof. Peng Liang</i> (Tsinghua University, China)
08:55-09:10	Simulation study of aeration parameters optimization in submerged membrane bioreactor <i>Liang Zhao^a, Xuefeng Zhu^{a,b}, Fan Li^a, Wenyi Yuan^a, Mingyuan Zhou^a</i> (^a Shanghai Polytechnic University, ^b University of Shanghai for Science and Technology, China)
09:10-09:25	Typical kinetic parameters of nitrifier under different sludge retention time conditions <i>Yifan Li^a, Yuanyuan Shao^a, Yu Tian^a, Shuo Zhao^a, Bingjie Li^a, Jinzhu Wu^a, Xiaodong Wu^{a,c}, Zhendong Zhao^{a,d}, Bing Liu^{a,b}</i> (^a Shandong Jianzhu University, China; ^b The University of Kitakyushu, Japan; ^c Sichuan University, ^d Shandong University of Science and Technology, China)
09:25-09:40	Protein production by photosynthetic bacteria from wastewater: effects of C to N ratio and light-oxygen condition <i>Kefan Cao^a, Ran Zhi^a, Guangming Zhang^a</i> (^a Renmin University of China, China)
09:40-9:55	Effect of floc morphology on prediction of membrane fouling <i>Cheng Fang^a, Yun Wu^a, Hongwei Zhang^a</i> (^a Tianjin University of Technology, China)
09:55-10:10	Influence of hydroxylamine addition on rapid recovery and operational stability of one-stage PN-A process <i>Wenhui Yue^{a,b}, Qianwen Sui^a, Yanlin Chen^a, Yuansong Wei^a, Hongyan Wang^a</i> (^a Research Center for Eco-Environmental Sciences, Chinese Academy of Sciences, ^b University of Chinese Academy of Sciences, China)
10:10-10:25	Coffee/tea Break

Time	Title
Chair: Prof. Peng Liang, Tsinghua University, China	
10:25-10:45	Keynote Speech: AOB and NOB for nitrification <i>Dr. Yanchen Liu</i> (Tsinghua University, China)
10:45-11:00	Effects of salinity on molecular ecological network of anammox microbial communities <i>Tao Ya^a, Shuai Du^a, Xiaohui Wang^a</i> (^a Beijing University of Chemical Technology, China)
11:00-11:15	The performance of anaerobic forward osmosis membrane bioreactor for municipal wastewater treatment <i>Yue Gao^a, Liven Lee^a, Peng Liang^a, Xiaoyuan Zhang^a, Xia Huang^a</i> (^a Tsinghua University, China)
11:15-11:30	Effects of coupling biofilm on the production of short-chain fatty acids (SCFAs) in the sludge anaerobic fermentation <i>Qianqian Zhang^a, Hongtao Zhu^a</i> (^a Beijing Forestry University, China)
11:30-11:45	Ultrasonic treatment to realize the nitrification in suspended activated sludge system <i>Siqi Li^a, Shuang Wu^a, Min Zheng^a, Yanchen Liu^a, Xia Huang^a</i> (^a Tsinghua University, China)
11:45-12:00	Controlling partial nitrification of low-strength ammonia wastewater in a continuous-flow complete mixing activated sludge system <i>Qianwen Sui^a, Li'an Jiang^b, Yuansong Wei^a</i> (^a Research Center for Eco-Environmental Sciences, Chinese Academy of Sciences, ^b China University of Mining & Technology (Beijing), China)

POSTER

编号	文件名	姓名	单位
1 Monitoring and sensor for water environment			
1-01	Gas-particle partitioning of carbonyls and its influencing factors in the ambient atmosphere in Zhengzhou,China.docx	崔嘉楠	北京大学环境科学与工程学院
1-02	Computational Fluid Dynamics Simulation of non-Newtonian Slurry Mixing Efficiency in Full-scale Anaerobic Digesters.doc	郑嘉熹	中国科学院生态环境研究中心
1-03	Modeling of combined reduction effect of roof runoff by low impact development practices-pu zhang-beijing normal university.doc	张 普	北京师范大学环境学院
1-04	Pilot Test on the Catalytic Removal of UPOPs from a Typical Municipal Waste Incinerator in China-Li yuancheng.doc	李元成	山东第一医科大学
1-05	Modeling and optimization of a full-scale domestic wastewater CASS process by activated sludge models (ASM) in different seasons.pdf	柳蒙蒙	中国科学院生态环境研究中心
1-06	What is the spatial pattern of precipitation for the 2010 Zhouqu mudflow and what can we learn from it.doc	徐 粒	北京师范大学
1-07	(李珂 上海师范大学) Fluorescent sensor based on Molecularly Imprinted polymer and Carbon Quantum Dots for detecting of Naproxen.doc	李 珂	上海师范大学
1-08	The molecular weight fingerprints of typical urban drainage sources.doc	刘 博	清华大学
1-09	A Study on Taxi-based Air Quality Monitoring in Cangzhou City-Shuchun Si-Shandong University.doc	司书春	山东大学
1-10	Application of Multivariate Statistical Methods to Pollution Sources Analysis of Yongding River Basin in Zhangjiakou.doc	赵含嫣	中国环境科学研究院
1-11	Fast imaging to single cell by coaxial holographic lensfree microscopy.doc	王 雪	中国科学院微电子研究所
1-12	Assessment of Human Health Risk of Exposure to Ambient Trace Elements in a Highly Polluted Region of China Based on CMAQ Simulations.doc	刘姝涵	北京师范大学
1-13	The 2,4-dichlorophenoxyacetic acid online monitoring using immunosensor technology-Cui Wanjun-Sun Yet-set University.docx	崔婉俊	中山大学
1-14	Photophysical Properties of Diphenyl Anthracene (DPA) a Priority Pollutant in Water.docx	Muhammad F.S.Khan	Tsinghua University
1-15	Optimizing the Synthesis of Carbon Dots for Use in Rapid Detecting Cr(VI) in Aqueous Media.doc	张 浩	北京师范大学
2 The fate and impact of pollutants in the environment			
2-01	Effects of flue gas cleaning devices on the concentration variations, emission characteristics and environmental implications of VOCs in coal-fired power plants of China-Wei Liu-Beijing normal university.docx	刘 伟	北京师范大学
2-02	Enrichment of a halophilic bacterial consortium for the decolorization of methanil yellow G.doc	郝就笑	北京工业大学

编号	文件名	姓名	单位
2-03	Distribution of cofferdam and its contents of various elements in complex wetland ecosystem.docx	李 源	河北省水利科学研究院
2-04	Study on Removal of Heavy Metals from Landfill Humus Soil and its Greening Application.docx	龚 庆	华中科技大学
2-05	Efficient adsorption and catalytic oxidation of PFOS substitute OBS (p-perfluorous nonenoxybenzene sulfonate) by a granular reduced graphene oxideFe3O4 adsorbent.doc	王 维	清华大学
2-06	Enhanced adsorption and coagulation of anionic toxic contaminant Direct Black by Keggin-Al13 with electronegative nano montmorillonite.docx	田晨浩	北京师范大学
2-07	Nitrogen removal in the single-chamber microbial fuel cell with different external resistances- 中山大学 - 李婕玲 .docx	李婕玲	中山大学
2-08	Effect of nitrification on degradation of Sulfamethoxazole (SMX) —安猛—上海师范大学 .pdf	安 猛	上海师范大学
2-09	1,4-dioxane degradation in the photoelectron-catalytic reactor with modified TiO2g-C3N4 film electrode as anode.docx	苏跃涵	中山大学环境科学与工程学院
2-10	Different molecular ecological network in sulfur autotrophic denitrification and sulfur mixotrophic denitrification.doc	刘士迪	北京化工大学
2-11	Biodegradation of benzophenone-4(BP4) by activated sludge- 汤玥 - 上海师范大学 .pdf	汤 玥	上海师范大学
2-12	Effect of ammonia on microbial community of high solid anaerobic digestion of cow manure.doc	Muhammad Abid	Tsinghua University
2-13	The efficient nitrogen removal and engineering application based on the VBBR.doc	曾秋宇	上海师范大学
2-14	Enhanced pyridine biodegradation and mineralization by adding C. testosteroni pz-1 in activated sludge,LuWang,Shanghai Normal University.docx	王 璐	上海师范大学
2-15	Effects of ammonia concentration on high solid anaerobic digestion of cow manure.doc	Mahdi Seyedsalehi	Tsinghua University
2-16	Carbamazepine degradation using a photoelectro-catalytic reactor with gas diffusion cathode.docx	苏 杰	中山大学
3 New theories and technologies for water purification			
3-01	Azo dye decolorization by a halotolerant consortium under anoxic conditions.doc	郭 光	南京工程学院
3-02	Electrochemical oxidation of amaranth dye by TiO2-NTsSnO2-Sb electrode parameter optimization, kinetic studies.-Houpengfei-北京化工大学 .doc	侯鹏飞	北京化工大学
3-03	Exo III and TdT dependent isothermal amplification (ETDA) colorimetric biosensor for ultra-sensitive detection of Hg2+- 杜再慧 - 中国农业大学 .doc	杜再慧	中国农业大学
3-04	Microbial-Driven Loading of Iron Oxides on Ceramsite Surface and Its Improvement on Adsorption Properties of Ceramsite.doc	粟 畅	华南农业大学资源环境学院
3-05	Features of sieve plate tower biofilm reactor (谭冲 上海师范大学) .pdf	谭 冲	上海师范大学

编号	文件名	姓名	单位
3-06	study on Anaerobic degradatio of 2,4,6-Trichlorophenol by UASB 郑媛媛 上海师范大学 .pdf	郑媛媛	上海师范大学
3-07	aerobic and anaerobic treatment of methanolic wastes 陈松筠 上海师范大学 .docx	陈松筠	上海师范大学
3-08	Chunmiao Wang-RCEES.doc	王春苗	中科院生态环境研究中心
3-09	Preparation of hydrothermal carbonization biochar for the removal of ibuprofen modeling the influencing factors via a response surface method; 于大洋; 北京师范大学 .docx	于大洋	北京师范大学
3-10	Featuring Efficient in situ Production and Activation of H2O2 for pH independent Photoassisted Fenton Reaction using Carbon Nanodots Modified Iron Oxychloride.docx	张 军	清华大学环境学院
3-11	Study on anti-pollution performance of nano-MnO2 modified PVDF flat membrane in the removal of 3-chlorophenol in membrane bioreactor; 盛钡; 南京理工大学 .doc	盛 钡	南京理工大学
3-12	The evolution and mechanism of biotoxicity during ozonation of phenolics - 马雪柔 - 南京理工大学 .doc	马雪柔	南京理工大学
3-13	Removal of ammonium from source-separated urine via stripping and its influencing factors.doc	徐康宁	北京林业大学
3-14	Factors determining the scaling on urine collecting pipes.doc	徐康宁	北京林业大学
3-15	Study on anti-pollution performance of nano-MnO2 modified PVDF flat membrane in the removal of 3-chlorophenol in membrane bioreactor- 盛钡 - 南京理工大学 .doc	盛 钡	南京理工大学
3-16	A new opportunity for the treatment of heavy metal contaminated soil the combination technology of electrokinetics and permeable reactive barrier, 刘伟, 北京师范大学 .doc	刘 伟	北京师范大学
3-17	Effects of aeration on wastewater treatment and fish growth performance.doc	肖耿锋	华南理工大学
3-18	Highly Effective Water To Energy Nanosized Electrocatalyst NiFeP for Low-cost Water Oxidation.docx	刘子晨	中国科学院生态环境研究中心
3-19	High performance of microbial fuel cell using a new acclimation procedure_Hualei Shi_Sun Yat-sen University.docx	施华磊	中山大学环境科学与工程学院
3-20	Novel Dendrimerlike Magnetic Biosorbent Based on Modified Orange Peel Waste Adsorption-Reduction Behavior of Arsenic. pdf	孟凡庆	青岛科技大学
3-21	Study on the effect of nitrogen and phosphorus removal by the 3DBER-FeS(范荆凯 - 北京化工大学).doc	范荆凯	北京化工大学
3-22	Efficient capture of Cr(VI) by carbon hollow fibers with window-like structure- 孙媛媛 - 青岛大学 .doc	孙媛媛	青岛大学
3-23	Anaerobic co-digestion of pig manure and corncob under mesophilic and thermophilic conditions.doc	孙宏远	合肥工业大学土木与水利工程学院
3-24	A comparison study of in-situ coagulation and magnetic ion exchange (MIEX) as pre-treatments for ultrafiltration Weiyang Xu University of Jinan.doc	许伟颖	济南大学

编号	文件名	姓名	单位
3-25	Effect of excess sludge pretreatment processes on sidestream for phosphorus recovery by MAP precipitation process.doc	刘晓蕾	北京师范大学环境学院
3-26	Phenol wastewater degradation in Constructed Wetland coupled with microbial fuel cell 刘琳 北京化工大学 .doc	刘 琳	北京化工大学
3-27	Preparation, characterization and treatment of nitrate nitrogen from highly active Bi-TiO2 metal nanoelectrode.doc	张芮芮	北京化工大学
3-28	Absorption oxidation process enhanced by toluene ozone microbubbles for high concentration gaseous toluene treatment. doc.doc	高立涛	河北科技大学
3-29	(周隽清) The impact of sludge recycling on Biological community in anaerobic and aerobic reactors.doc	周隽清	上海师范大学
3-30	Highly effective removal of Cu(II) from aqueous solution using mesoporous TiO2.docx	陈达颖	北京化工大学
④ Air pollution: Sources, formation mechanisms and effects			
4-01	A rapid-risen temperature synthetic route to hydrophobic metal-organic gel for the capture of odor-causing volatile organic compounds.doc	郑现明	清华大学环境学院
4-02	Isolated Pt single atomic sites anchored on nanoporous TiO2 film for highly efficient photocatalytic degradation of low concentration toluene.doc	徐同舟	清华大学
4-03	Enhanced surface oxygen effect in MnO2 promoted by rare earth element doping for the catalytic decomposition of toluene at low temperatures.doc	张惠玉	清华大学环境学院
4-04	Facile synthesis of meso-macroporous cerium-doped manganese oxides with superior humidity-tolerant activity for ozone decomposition.docx	李连欣	清华大学环境学院
4-05	Calculation of Maximum Incremental Reactivity Scales for Volatile Organic Compounds Based on Typical Megacities in China.doc	Qiu wanyi	Peking University
4-06	Characterization and sources of volatile organic compounds (VOCs) and their related changes during ozone pollution days in 2016 in Beijing, China. Liu Yafei_Beijing Normal University.doc	刘亚非	北京师范大学
4-07	Characterization and high spatial-resolution mapping of Volatile Organic Compounds (VOCs) in Beijing, China, using mobile monitoring platform-Reza B. Khuzestani-PKU.doc	Reza B. Khuzestani	Peking University
4-08	Chemical characteristics of VOCs emitted from different cooking styles.doc	童梦雪	北京大学深圳研究院
4-09	Seasonal variation and source analysis of peroxyacetyl nitrate (PAN) in Zhengzhou, China; Sun Mei; Peking University.docx	孙 美	北京大学
⑤ Ecological process and management			
5-01	The seasonal variation of macrobenthos and its relationship with environmental factors in a Shallow lake in North China.doc	陈泽豪	北京师范大学

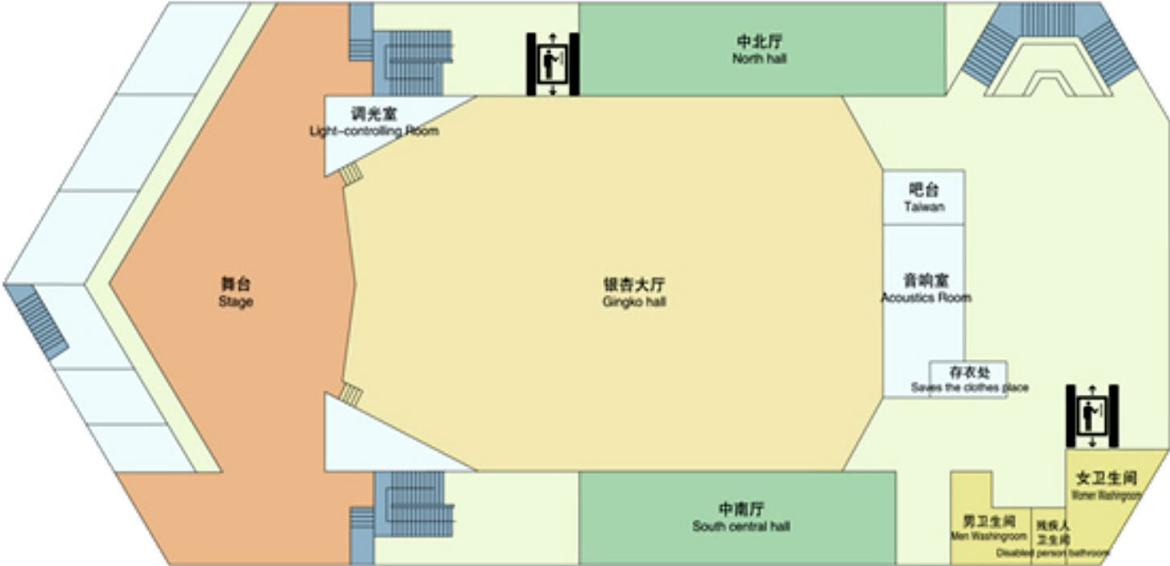
编号	文件名	姓名	单位
5-02	A Cost-benefit analysis of old landfill disposal a case of Beiyangqiao landfill..docx	Aidana Ospanbayeva	华中科技大学
5-03	Responses of different alpine plant communities to nitrogen deposition and climatic warming.doc	Emmanuella Anyeki Kw	Beijing Normal University
5-04	Survey-based approach to establish benthic biological network in Chenghai Lake, China.doc	许 岩	清华大学
5-05	Research on the Utilization Efficiency of Nitrogen and Phosphorus by Winter Wheat Under Different Water and Fertilizer Regulation and Cultivation Modes.doc	陈 铭	北京师范大学
5-06	Effects of resources heterogeneity and environmental disturbance on growth performance and interspecific competition in the wetland clonal plants.doc	于洪伟	清华大学
5-07	Source-sink distribution and relationship of nutrients in sediments from eutrophic Lake (王猷珂 - 北京师范大学) .doc	王猷珂	北京师范大学
5-08	Investigation on the Quality of Reclaimed Water So.docx	郝凯旋	山东建筑大学
5-09	Comprehensive Benefit and Environmental Risk Analysis of a Rural Domestic Waste Treatment Project in Beijing.doc	冯瑞枝	北京化工大学
5-10	Environment change of snow leopard habitat in Sorbchaye of the three river source region.docx	彭 倩	上海师范大学
5-11	Spatio-temporal evolution scenarios and the coupling analysis of ecosystem services with land use change in China.docx	孙永秀	北京师范大学
⑥ Process simulation and Advanced technology for drainage system			
6-01	Formation Process And Community Structure Analysis Of Aerobic Granular Sludge At Low Temperature.docx	邢路路	哈尔滨工业大学
6-02	Typical kinetic parameters of nitrifier under different sludge retention time conditions- 刘兵 - 山东建筑大学 .docx	李一凡	山东建筑大学
6-03	Effects of Illumination on Wastewater treatment of Algae-bacterial Symbiosis System in photobioreactor .docx	刘乐然	山东建筑大学
6-04	Protein production by photosynthetic bacteria from wastewater_ effects of C to N ratio and light-oxygen condition.doc	曹可凡	中国人民大学环境学院
6-05	Simulation of the removal and recovery of nitrogen and phosphorus from source-separated urine by magnesium ammonium phosphate precipitation based on PHREEQC.doc	徐康宁	北京林业大学
6-06	Effects of three urease inhibitors on the ammonification in stored urine.doc	徐康宁	北京林业大学
6-07	Partial-nitritationanaerobic ammonium oxidation process for the treatment of magnetic-coagulation domestic sewage.doc	狄 斐	中国科学院生态环境研究中心
6-08	Effect of free nitrous acid (FNA) on EE2 degradation by AerAOB during ammoxidation 王丽丽 北京师范大学 .docx	王丽丽	北京师范大学
6-09	Effects of salinity on molecular ecological network of anammox microbial communities	亚涛	北京化工大学

注意事项

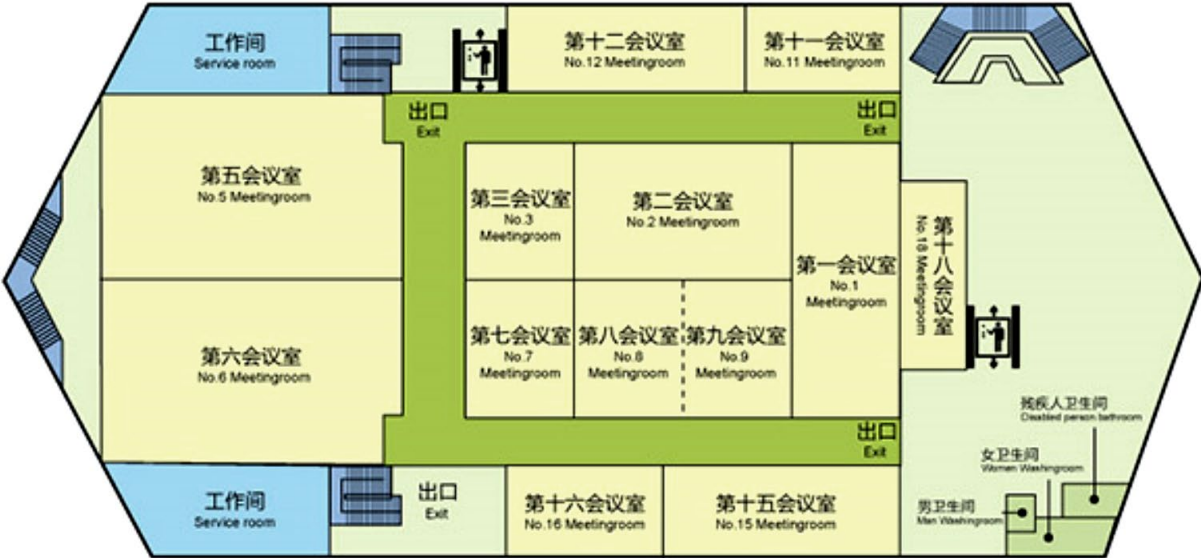
- 1、进入会场请佩戴会议胸卡
- 2、请按时进入报告会会场，遵守会议秩序，请将手机设置成静音或振动模式
- 3、请妥善保管好资料和随身物品
- 4、如遇突发情况，请听从工作人员安排
- 5、如遇不便，请及时与会务组联系

会务组联系方式

总体安排	李瑞瑞 15811043231
	王志强 13910754674
分会	A 周小红 13810593267
	B 李瑞瑞 15811043231
	C 张 洪 13671177343
	D 卢 静 15810713428
	E 赵金博 18701523618 严晓兰 15120098873
	F 王小佺 13693385006
	G 刘艳臣 13810091110
	H 斯巴依 18519749255
沙龙	W 张 芳 13581803218
	S 陆克定 13811621528
志愿者负责人	刘传畅 17319339217



西郊宾馆1号楼三层平面示意图
Third Floor Plan of Building No.1



西郊宾馆1号楼二层平面示意图
Second Floor Plan of Building No.1

午餐、晚餐

东园、景园 5号楼1层

Lunch/Dinner

Dongyuan, Jingyuan Restaurant, No.5 building (1st floor)