



# China-US Workshop on Advances in Environmental Microbiology and Biotechnology

## 中美环境微生物学与生物技术研讨会

Nanjing University, Nanjing, China

May 30 - June 1, 2013



**Sponsors:** State Key Laboratory of Pollution Control & Resource Reuse; School of the Environment, Nanjing University

**主办单位:** 污染控制与资源化研究国家重点实验室; 南京大学环境学院

# Workshop agenda

<b>May 30<sup>th</sup> (Thursday)</b>	
All day	<b>Registration (Novotel Hotel)</b>
6:00 pm - 8:30 pm	<b>Opening Reception (Dining room, Novotel Hotel)</b>
<b>May 31<sup>st</sup> (Friday)</b>	
<b>Welcome and Opening Remarks</b> <b>(Conference room B320, School of the Environment, Nanjing University)</b>	
8:30 am - 8:40 am	<b>Dr. Jun Bi</b> Dean, School of the Environment, Nanjing University, China
8:40 am - 8:50 am	<b>Dr. Gary S. Sayler</b> Director, Joint Institute of Biological Sciences, University of Tennessee & Oak Ridge National Laboratory, U.S.A.
8:50 am - 9:00 am	Group photographing
<b>Technical Session 1</b> <b>Convener: Dr. Terry C. Hazen</b>	
9:00 am - 9:35 am	<i>Bacterial bioluminescence from microbe to man: Lux autonomous sensing platforms in environmental toxicology and biomedical applications</i> Dr. Gary S. Sayler, Univ. of Tennessee & ORNL
9:35 am - 10:10 am	<i>Dehalococcoides and knowledge-driven bioremediation</i> Dr. Frank E. Löffler, Univ. of Tennessee & ORNL
10:10am - 10:45am	<i>Applications of high-throughput sequencing in environmental microbiology and biotechnology</i> Dr. Tong Zhang, Univ. of Hong Kong
<b>Coffee break (10:45 am – 10:55 am)</b>	

<b>Technical Session 2</b>	
<b>Convener: Dr. Frank E. Löffler</b>	
10:55 am-11:30 am	<i>The deep water horizon oil spill: A systems biology approach to oil contaminated beaches, marshes, and sediment</i> Dr. Terry C. Hazen, Univ. of Tennessee & ORNL
11:30 am-12:05 pm	<i>Colloid transport in partially saturated porous media</i> Dr. Jie Zhuang, Univ. of Tennessee
12:05 pm-12:40 pm	<i>Genetic markers for microbial source tracking in water</i> Dr. Guolu Zheng, Lincoln Univ. & Univ. of Missouri
12:40 pm-1:40 pm	<b>Lunch at Heyuan cafeteria</b>
<b>Technical Session 3</b>	
<b>Convener: Dr. Tong Zhang</b>	
1:40 pm - 2:05 pm	<i>Gene regulatory network analysis for understanding toxicity of chemicals</i> Dr. Joe Zhang, Univ. of Southern Mississippi
2:05 pm - 2:30 pm	<i>Toxicogenomic mechanisms of 6-HO-BDE-47, 6-MeO-BDE-47, and BDE-47 in E. coli</i> Dr. Xiaowei Zhang, Nanjing University
2:30 pm - 2:55 pm	<i>Exploring the corrinoid biochemistry of Dehalococcoides and implications for bioremediation of chlorinated compounds</i> Dr. Jun Yan, Univ. of Tennessee
2:55 pm - 3:20 pm	<i>Microbial antibiotic resistance in the environment</i> Dr. Xu-Xiang Zhang, Nanjing University
3:20 pm - 3:45 pm	<i>Combined effects of arsenic and high-fat diet on liver injury and diabetogenic effects as determined using a systems biology approach</i> Dr. Bing Wu, Nanjing University
<b>Coffee break (3:45 pm – 3:55 pm)</b>	

<b>Technical Session 4</b>	
<b>Convener: Dr. Jie Zhuang</b>	
3:55 pm - 4:15 pm	<i>Introduction to the journal of Environmental Science &amp; Technology</i> Dr. Gary S. Sayler, Associated editor for ES&T
4:15 pm- 4:30 pm	<i>Microcystin-LR disturbs lipid metabolism of mice by altering gut microbial community structure and function</i> Mr. Zongyao Zhang (graduate student), Nanjing University
4:30 pm - 4:40 pm	Comments and suggestions
4:40 pm - 4:55 pm	<i>Chlorination effects on microbial antibiotic resistance in drinking water</i> Mr. Peng Shi (graduate student), Nanjing University
4:55 pm - 5:05 pm	Comments and suggestions
5:05 pm - 5:20 pm	<i>Metagenomic insights into microbial nitrification and denitrification in a tannery wastewater treatment plant</i> Mr. Zhu Wang (graduate student), Nanjing University
5:20 pm - 5:30 pm	Comments and suggestions
6:00 pm – 8:30 pm	<b>Dinner and Closing Reception at Heyuan cafeteria</b>
<b>June 1<sup>st</sup> (Saturday)</b>	
9:00 am– 12:00 pm	NJU Campus and City of Nanjing tours
12:00 pm-2:00 pm	Lunch (New Era Hotel)
2:00 pm – 6:00 pm	Visit to the Institute of Soil Science, Chinese Academy of Sciences, Nanjing, China.
<b>June 2<sup>nd</sup> (Sunday)</b>	
All day	Guests leave Nanjing