



Global Center for Education and Research  
on Human Security Engineering for Asian Megacities (HSE)  
Research Center for Environmental Quality Management



## *GCOE symposium*

# International Symposium on Water Environmental Issues and Challenges

## 1. Introduction

The aim of the symposium is to introduce and discuss recent researches, and reviews related to water environmental problems. The symposium intends to encourage and enlarge the exchange of experience and the cooperation among Asian countries. This could contribute to Asian environment protection and the better understanding among nations.

## 2. Time and Place

- Date: 14:00 ~ 17:10, September 28 (Tue.), 2010
- Place: Conference room, Otsu Sewage Treatment Plant

## 3. Program

- 1) 14:00~14:10 Opening Remarks Hiroaki Tanaka (Kyoto University)
- 2) 14:10~14:30 Occurrence of pharmaceuticals and personal care products in the aquatic environment in Japan Norihide Nakada (Kyoto University)
- 3) 14:30~14:50 Wastewater Reuse in Seoul: Policies and R&D Youngjune Choi (Waterworks Research Institute, Seoul Metropolitan Government, Korea)
- 4) 14:50~15:10 Ecotoxicological risk assessment of antibiotic drugs by bioassays using selected aquatic organisms Naoyuki Yamashita (Kyoto University)
- 5) 15:10~15:30 Investigation of sediment and water quality in shenzhen river Xihui Zhang (Tsinghua University)
- 6) 15:30~15:40 Break
- 7) 15:40~15:55 Natural attenuation of pharmaceuticals and personal care products during river transport Seiya Hanamoto (Kyoto University)
- 8) 15:55~16:10 Establishment of real-time RT-PCR methods for human viruses detection in wastewater environment Marfiah binti Ab.Wahid (Kyoto University)
- 9) 16:10~16:25 Water quality survey in Shenzhen area, China Takashi Azuma (Kyoto University)
- 10) 16:25~16:40 Risk assessment and control for groundwater recharge with reclaimed water Jia Xin (Tsinghua University)
- 11) 16:40~16:55 Virus removal by combination with coagulation and ultrafiltration for water reuse Yoshinori Nishida (Kyoto University)
- 12) 16:55~17:10 Hunting for Engineered Nanoparticles in Wastewater and Water Treatment Yongkui Yang (Kyoto University)

■ **Poster presentation & BBQ Party : 17:30 ~ 19:30 @ RCEQM of Kyoto Univ.**



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**Poster presentation (17:30~19:30)**

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- 1) Occurrence and removal of NDMA and NDMA formation potential in WWTPs, Suchul Yoon (Kyoto University)
- 2) Water reclamation to lighten water crisis, Hongyang Wang (Kyoto University)
- 3) Pharmaceuticals and hormones on the recovery of phosphorus from urine, Kemacheevakul Patiya (Kyoto University)
- 4) Current situation of energy consumption in waterworks and sewage works of Japan, Tatsuhiro Ueyama (Kyoto University)
- 5) Behavior of pharmaceutical active compounds during sewage treatment process, Masanori Narumiya (Kyoto University)
- 6) Ecotoxicity of pharmaceuticals and personal care products on three different aquatic organisms, Tsukasa Kawakami (Kyoto University)
- 7) Water quality monitoring in a combined sewage treatment plant in a rainy day, Masaaki Hinoue (Kyoto University)
- 8) Advanced sewerage treatment by 4-stage BNR process, Suntae Lee (Kyoto University)
- 9) Plan for study of rapid measurement of escherichia coli by enzyme activity method, Shun Tanaka (Kyoto University)
- 10) Antibiotic resistant microorganisms in the upper stream of rivers, Hiromoto Koshikawa (Ryukoku University)