

International Workshop

Wastewater Process Modelling and it's Application for the Design and Operational Optimization of WWTPs

November 18-19, 2008 – Beijing, China



Background

With the aid of simulation software, activated sludge models have been widely used for process development and analysis in North America for design and operational improvement purposes.

With the rapid economic development and urbanization in China during the last 30 years water pollution has become a very serious problem. To alleviate water pollution, a large number of municipal wastewater treatment plants have been built during the last decade (about 1,000 WWTPs which treat 56% of the 36.3 billion m³ of wastewater generated annually). During the next five years more wastewater treatment plants are planned so that 70% of all wastewater is treated. Also existing and new wastewater treatment plants will be required to meet more stringent effluent requirements. Process modelling can help with the design, upgrade and operation of WWTPs so to maximize the current and future capital, operational and people investments at these facilities.

To help enable the use of wastewater treatment process modelling in the design and operation of WWTPs in China, a workshop on “Wastewater Process Modelling and it's Applications for the Design and Operational Optimization of WWTPs” will be held on November 18 -19, 2008 in Beijing, China. This event is organized by China Urban Water Association, EnviroSin Associates Ltd., Beijing Drainage Group Ltd., Tsinghua University, North China Municipal Engineering Design and Research Institute and China Water. Support is provided by the China State Administration of Foreign experts Affairs and Canada International Science and Technology Partnership Inc. (ISTP).



Themes

The workshop covers various topics, including:

- WHAT IS WASTEWATER TREATMENT PROCESS MODELLING?
- WHAT CAN WE LEARN FROM MODELLING?
- STEPS TO DEVELOP A GENERIC PLANT MODEL
- MODEL BASED DESIGN, UPGARDE AND OPERATION OF WWTPS
- MODEL BASED PROCESS CONTROL
- NUTRIENT REMOVAL FROM MUNICIPAL WWTPS IN NORTH AMERICA
- PROCESS MODELLING IN PRACTICE – CURRENT AND THE FUTURE USES IN CHINA

Speakers

Professor Yves Comeau, Ecole Polytechnic of Montreal, Canada

Dr. Peter Dold, EnviroSim Associates Ltd, Canada

Professor Hangchang Shi, Tsinghua University, China

Professor Li Chen, North China Municipal Design and Research Institute, China

Mr. PW Lam, Drainage Service Department (DSD), Hong Kong, China

Mr. Pengcheng Yang, Wuxi Drainage Group Ltd, China

Modelling team of Beijing Drainage Group Ltd led by Ms. Yiping Gan and Dr. Jun Zhou

Dr. Zhirong Hu, EnviroSim Associates Ltd, Canada

Organizers

Dr. Zhirong Hu (Principal) EnviroSim Associates Ltd

Ms. Yiping Gan Research and Development Center, Beijing Municipal Drainage Group

Dr. Jun Zhou Research and Development Center, Beijing Municipal Drainage Group

Professor Lan Wang China Urban Water Association

Dr. Kevin Chapman EnviroSim Associates Ltd

Professor Hanchang Shi Tsinghua University

Ms. liZhen Zhang China Water (<http://www.chinawater.net>)

Workshop Supporters

Canada International Science and Technology Partnership Inc. (ISTP)

China State Administration of Foreign Experts Affairs



Venue and Dates

- **Venue:** the Training Center of Beijing Municipal Drainage Group Ltd. at the Gaobeidian wastewater treatment plant
- **Dates:** November 18 – 19, 2008

Contact Information

Main contacts

Dr. Zhou jun or Ms. Zhang jinhui

Beijing Drainage Group Ltd

Tele: +86 10 5135 2881 or +86 10 5135 2874

FAX: +86 10 5135 2881

Cell phone: + 86 139 1170 9290 or +86 134 8874 5920

Email: zhoujun992@yahoo.com.cn

Additional Contacts

Dr. Zhirong Hu (EnviroSim Associates Ltd) email: Hu@envirosim.com

For more information

Please visit:

www.bdc.cn (Beijing Drainage Group Ltd)

www.h2o-china.com (China Water)

www.envirosim.com (EnviroSim Associates Ltd.)

China Urban Water Association

Beijing Municipal Drainage Group

October, 2008

