

**The Fifth International Symposium on Southeast Asian Water Environment**  
November 7-9, 2007, in Chiang Mai, Thailand

**Program**

(as of Oct. 24)

**November 7**

**8:00** Leave from Green Lake Resort Hotel  
Field trip to Lamphun Province (see details for the brochure of 'field trip')  
**17:30** Arrive at Green Lake Resort Hotel

**Evening** Shuttle bus service to the downtown will be provided

**November 8**

**8:30-17:00 Registration**

**9:00 Opening Session**

**Room A/B** Opening Address  
Keynote Speech  
Kengo Sunada, Professor, The University of Yamanashi, Japan  
"Water Related Issues in the Asian River Basins"

**10:00 Coffee Break**

**10:30 Oral Presentaion Session #1**

**Room A/B A1: Hazardous chemicals control and management (1)**

Volatile Organic Compounds Contamination at Unmanaged Municipal Solid Waste Dumpsite in Thailand	Chomsurin Cheema
Assessment of Fluoride Intake, Excretion, and Health Effects in Chiang Mai Basin, Thailand	Tomoko Takeda
Critical Review: Arsenic in Water-soil-food Chain in Bangladesh	S.M. Atiqul Islam

**Room C C1: Water quality assessment**

Water Quality Biomonitoring using Macroinvertebrata in Way Besai, Sumberjaya, West Lampung	Subekti Rahayu
Water Quality Monitoring and Non-destructive Suspended Sediment Size Analysis in the Chaktomuk Junction-Tonle Sap Lake Corridor, Cambodia	Kim Irvine
Chemical Characteristics of Groundwater of Kathmandu Valley, Nepal	Saroj Kumar Chapagain

**12:00 Lunch**

**13:30 Oral Presentaion Session #2**

**Room A A2: Hazardous chemicals control and management (2)**

The Effects of Substrate Exposure History and Carbon Starvation-Induced Stress on The EPS Synthesis of TCE Degrading Toluene Oxidizing Bacteria	Aksara Putthividhya
Treatment of Cyanide Bearing Aqueous Solutions By Plain and Biologically Activated Carbon	Rajesh Roshan Dash
Hexavalent Chromate Removal from Wastewater Using Micellar Enhanced Ultrafiltration and Activated Carbon Fibre Processes; Validation of Experiment With Mathematical Equations	Seung Hwan Lee
Preparation of Porous Pt/TiO <sub>2</sub> -SiO <sub>2</sub> Photocatalyst and its Performance in Photocatalytic Degradation of Pyrene	Zhaohui Luo

**Room B B2: Biological process (1)**

Sequential Microaerophilic-aerobic Treatment of Textile Wastewater	Sandhya Swaminathan
The Effect of Immersion Time on Decolorization of Textile Wastewater Using <i>Marasmius</i> sp. in Modified Packed Bed Bioreactors	Tjandra Setiadi
Effect of alkalinity on performance of simulated bioreactor of fruit and vegetable wastes	Sirinda Lapcharoen
Biological Treatment of Tannery Effluent in a Sulphidogenesis Cum Ammonia Removal Process (SCARP)	Sabumon Pothanakada Thil Chacko

**Room C C2: Management of water environment (1)**

SWOT Analysis and Decision-Making Flowsheet for The Selection of Appropriate Sanitation Alternatives in Haiphong City, Vietnam	Ngoc Bao Pham
Evaluation of The Sanitation Systems and Faecal Sludge Management in Thailand	Supattra Jiawkok

A Survey on People Awareness About Nitrate Pollution of Tap Water in Arak City, Iran

Households' Willingness to Pay for Improved Watershed Management: Evidence from the Philippines

Seyed Mohammad Reza Alavi Moghaddam

Margaret Mejorada Calderon

#### 15:30 Coffee Break

#### 16:00 Oral Presentaion Session #3

##### Room A A3: Physicochemical process (1)

Primary Treatment By Air Flotation in Rubber Trap of Concentrated Latex Industry

Fluoride Removal by Contact Precipitation in Bone Char Column

Groundwater Defluoridation by Ultra Low Pressure Reverse Osmosis Membrane

Somtip Danteravanich

Khajornsak Sopajaree

Aunnop Wongrueng

##### Room B B3: Biological process (2)

A Comparative Study of The Protozoan Community in Two Activated Sludge Plants

Comparative Treatment Performance Between Duckweeds-Based and Constructed Wetland Systems

Organic Matter Distribution of The Root Zone in A Constructed Subsurface Flow Wetland

Vinay Kumar Tyagi

Bal Krishna K.C

Tuan Anh Le

##### Room C C3: Management of water environment (2)

A GIS-Based Estimation of Comparative Occurrence and Fate of Waste-Related Protozoan Pathogens in a Peri-Urban Canal Network in a Tropical Environment

Study on Community Level Health Implications of Different Inundation Situations in Dhaka, Bangladesh

Health Risks Due to Contamination of Groundwater With Heavy Metals and Pathogenic Microorganisms at an Arsenic-Affected Village in Cambodia

Diallo Cherif Mamadou Billo

Kabirul Ahsan Mollah

Toru Watanabe

#### 17:30 Poster Session

##### Poster Area (Available only after lunch on Nov. 8)

P1 Biogeochemistry in the Thale Noi Wetland: Dynamics of Bio-physics, Nutrients and Ecosystem Metabolisms

P2 Biogeochemical Nutrient Budgets in the Thale Noi Wetland

P3 Removal of Aqueous Calcium Ion by Micellar Enhanced Ceramic Microfiltraton Adding Surfactant

P4 Water Treatment of High Turbid Source by Tubular Ceramic Microfiltration with Periodic Water-Backflushing System

P5 Photocatalytic Activity on the Decomposition of Orange II Over Titanium Dioxides Prepared from Peroxotitanate Solution using Basic Additives

P6 Photocatalytic Decomposition of p-Nitrophenol over TiO<sub>2</sub>/SiO<sub>2</sub> Catalysts Prepared using the W/C Microemulsion Method

P7 Efficiency of *Typha Angustifolia* and *Vetiveria Zizanioides* for the Removal of Chromium and Arsenic in Constructed Wetlands

P8 Use of Natural Media as Fixed Film Supports in Anaerobic Filter Reactors for High-COD Wastewater Treatment

P9 Uses of Bioresidues (Percolate and Biosolid) from Constructed Wetlands (CW)Treating Septage for Sunflower Plantation

P10 A Study on Anaerobic Textile Dye Decolorization with Soluble Starch as Co-Substrate

P11 Membrane Bioreactor for Treatment of Domestic Wastewater

P12 Microbial Contamination and Water-Borne Diseases in Citarum Watershed, West Java Province

P13 Photocatalytic Decomposition of Formic Acid in Aqueous Solution using Cr-doped Bi<sub>12</sub>TiO<sub>20</sub> Catalyst under Visible Light Irradiation

P14 On-line Monitoring of Floc Size at Various Temperature in Piggery Wastewater

P15 Public Participation and Involvement in the Assessment of Ragay Gulf Philippines

P17 Phytoextraction of Arsenic by a Macroalga:*Chara vulgaris*

P18 The Challenges of Sludge Management in Tehran Municipal WWTPs

P19 Batch Sorption Equilibrium Study for The Removal of Chromium (VI) Ions From Aqueous Solutions using Rice Bran

P20 Community Analysis of Nitrifying Bacteria In Sludge Granules in Sequencing Batch Airlift Reactors: in Cases of Complete Nitrification and Partial Nitrification

P21 Soubilization Characteristics of Municipal Wastewater Sludge by Ultrasound and Thermal Treatment

P22 Characteristics of Power Generation and Coulumbic Efficiency of a Microbial Fuel Cell With Graphite and Carbon Paper Electrodes

P23 Biodegradation of Monoethanolamine and Removal of Amine by Nitrification/Denitrification

P24 TCE-Alcohol Tracer Partitioning and Cosolvency Characteristics in a Continuous Flow System with Implications for Partitioning Tracer Tests at DNAPL-Contaminated Sites

Atsamon Limsakul

Surin Sukumalanont

Bo Reum Park

Hyuk Chan Lee

Seong-Soo Hong

Chang-Sik Ju

Sasidhorn Buddhawong

Suda Ittisupornrat

Sukon Hadsoi

A. Boonyakamol

Katayon Saed

Rika Winurdiastri

Dong Seok Park

Thipsuree Kornboonraksa

Maria Rebecca A. Campos

Mohammad Reza Alavi Moghaddam

Mohammad Reza Alavi Moghaddam

Mohammad Reza Alavi Moghaddam

Dongjin Kim

Yoo-Sik Youn

Joung-Yee Yoon

Jeong-Jun Park

Aksara Putthividhya

P25 Promoting Environmental Excellence: The Water Management and Conservation Program of a Semiconductor Company in the Philippines	Joseph R. Estiller
P26 Promoting the Use of Hazardous Waste from Semiconductor Company as Alternative Fuel and Raw Material for the Cement Industry	Joseph R. Estiller
P27 Surface Runoff Pollution Load Estimation of Urban Highway and Its Seasonal Variation in Korea	Chunsik Lee
P28 Storm Surface Runoff Pollution from Food Processing Industry	S.C.Hong
P29 Field and Lab Experiment of Slanted Soil Chamber System as a Decentralized Gray Water Treatment	Yoshitaka Ebie
P30 Isolation of 17alpha-methyltestosterone-degrading Bacterium, <i>Nocardioides</i> Strain P-1 from Water of Masculinizing Pond of Nile Tilapia Fry	Supreeda Homklin
P31 Communities of Ammonia-oxidizing Bacteria in Culturing Shrimp Ponds in Thailand: Analysis Based on <i>amoA</i> Gene Sequences	Bongkoch Khinthong
P32 In situ Phylogenetic Study and Identification of Estrone-degrading Bacteria in Activated Sludge Using Microautoradiography-fluorescence in situ Hybridization	Kaisai Zang
P33 Characterization of Brewery Wastewater by FEEM and Pyrolysis GC/MS	Tansiphorn Janhom
P34 Treatment of Multi-Component Solutions by Reverse Osmosis : Application to Textile and Dye Wastewater Treatment	Chaisri Suksaroj
P35 Wastewater Characterization of Coal Fired Thermal Power Plants in India	Yatish Kr. Singh
P36 Assessing of Volatile Organic Compounds Contaminated Groundwater in the Area of Northern Industrial Estate, Lamphun Province	Fairda Malem F.
P37 Rehabilitation of Water Spring in Priority to Preserve Kancra Fish ( <i>Labeobarbus Dourenensis</i> ) as Holy Fish in Cigugur, Kuningan Regency, West Java Province, Indonesia	Donny J Prihadi
P38 Utility of Sulfamethazine as a Molecular Marker of Livestock-Source Contamination	Satoshi Managaki
P39 What We Have Learnt from Multidisciplinary Research on Aquatic Resource Management of the Largest Reservoir of Thailand ?	Charumas Meksumpun
P40 Evaluation on Land and Eutrophic Water Resource Remediation Potentials: A Case Study of Bangpakong River, Chachoengsao Province, Thailand	Kanyanat Soontornprasit
P41 Water Environment and Juvenile Fish Distribution in Wachiralongkorn Reservoir, Thailand	Patrawut Thaipichitburapa

## 19:00-21:00 Reception

November 9

### 8:30-12:00 Registration

#### 9:00 Oral Presentaion Session #4

##### Room A A4: Physicochemical process (2)

Fluorescent Excitation-Emission Matrix Peak Intensity Applied for Evaluating DOC and THMFP Reductions of Reservoir Waters by Alum Coagulation	Charongpun Musikavong
Kanchan™ Arsenic Filter (KAF): a Technology for Drinking Water Quality Improvement at Household and Its Promotion in Rural Terai, Nepal	Makhan Maharjan
Simultaneous Oxidation and Removal of Arsenite from Drinking Water Using Manganese Oxide Coated Alumina	Shihabudheen Mundampra Maliyekkal

##### Room B B4: Analysis of water environment (1)

Analysis of Urban Water Problems in Medan City, Indonesia	Futoshi Kurisu
Assessment of Water Quality in Selected Rivers of Asian Monsoon Regions using Multivariate Statistical Techniques	Sangam Shrestha
The Estimation of the Groundwater Storage and its Distribution in Uzbekistan	Wahyuni Sri

##### Room C Special session: (Institute for Global Environmental Strategies, Japan) Groundwater Management Policy in Asian Cities

#### 10:30 Coffee Break

#### 11:00 Oral Presentaion Session #5

##### Room A A5: Physicochemical process (3)

Performance of Iron and Manganese Removal from Raw Water of Mae Koun Water Treatment Plant by Preozonation Process	Vililuck Kijjanapanich
Chemical Reduction of Nitrate by Nanoscale Zero Valent Iron	Maria Angela Novi Prasetiati
Effect of Cadmium (II) on Nitrogen Removal in Sequencing Batch Reactor With and Without Powdered Activated Carbon	Poh-Eng Lim

**Room B B5: Analysis of water environment (2)**

Modeling Andaman Tsunami Runup Through Penang Mangrove Forest

Hock Lye Koh

Development of a Grid-Based Erosion Model for Large Catchments and Its Application to The Lushi Basin in China

Guoqiang Wang

Determination of Coefficients for Water Quality Mathematical Modeling: Case Study of the Phong River

Wanpen Wirojanagud

**Room C Special session: (Institute for Global Environmental Strategies, Japan) Groundwater Management Policy in Asian Cities**

**12:30 Farewell Lunch**

**13:30 Closure**