

List of Papers for Oral Presentation on 29 November 2016

A1: Water Supply and Treatment (1) [11:00 – 12:15 at Room A]

- A1-1 **Development of a Water Safety Plan for Vientiane City, Lao PDR**
*Bishal Bhari, Sinbandid Phommachack and Chettiyappan Visvanathan**
Environmental Engineering and Management, Asian Institute of Technology
- A1-2 **Consumers' Perception of Intermittent Water Supply in Kathmandu Valley**
Bibas Guragai, Satoshi Takizawa and Kumiko Oguma*
Department of Urban Engineering, University of Tokyo
- A1-3 **Comparative Assessment of Green Supply Chain Management (GSCM) in Drinking Water Service Industry in Lao PDR, Thailand, and South Korea**
Dong Hak Park and Chettiyappan Visvanathana*
Korea Water Resource Corporation (K-water), South Korea

B1: Wastewater Treatment and Management (1) [11:00 – 12:15 at Room B]

- B1-1 **Application of Taguchi method for Optimizing Nitrate Removal using Continuous Electro-Coagulation (CEC) Process**
Elnaz Karamati Niaragh, Mohammad Reza Alavi Moghaddam and Mohammad Mahdi Emamjomeh*
Amirkabir University of Technology, Iran
- B1-2 **Treatment of Textile Wastewaters by Electrocoagulation Employing Fe-Al Composite Electrode**
Akshaya Kumar Verma, Puspendu Bhunia and Rajesh Roshan Dash*
Siksha 'O' Anusandhan University, India
- B1-3 **Application of Direct Contact Membrane Distillation to the Treatment of Raw and Biologically Treated Municipal Solid Waste Leachate**
Pawinee Milintawisamai, Samunya Sanguanpak, Chart Chiemchaisri, Wilai Chiemchaisri and Chettiyappan Visvanathan*
Kasetsart University, Thailand

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C1: Emerging Contaminants and Environmental Technology (1) [11:00 – 12:15 at Room C]

C1-1 Factors Influencing Sorption and Biodegradation of 17 α -Ethinylestradiol in Relation to Nitrification

Liza Bautista-Patacsil^{}, Aileen H. Orbecido, Analiza P. Rollon and Jiangyong Hu
Malayan Colleges Laguna, Philippines*

C1-2 Nanotechnology for *in Situ* Stabilization of Mercury Contaminated Aquifers

Murugesan Devasena^{} and Indumathi M Nambi
Sri Krishna College of Technology, India*

C1-3 Occurrence of Perfluorinated Compounds (PFCs) in Surface Water and Groundwater near Unsuitable Disposal Sites in Thailand

Chanidaporn Hongkachok, Suwanna Kitpati Boontanon^{}, Narin Boontanon, Nawatch Surinkul,
Apisara Boonya-atichat and Rattanaporn Tanjai
Mahidol University, Thailand*

A2: KURITA Session: Water Supply and Treatment (2) [13:30 – 14:45 at Room A]

A2-1 Defluoridation of Water using Aluminum Oxide/hydroxide Nanoparticles: Optimization of Process Parameters and Management of Spent Adsorbent

Vineet Kumar Rathore and Prasenjit Mondal^{}
Indian Institute of Technology Roorkee, India*

A2-2 Application of the Simultaneous Process of Nitrification and Denitrification by using Moving Bed Biofilm Reactor for Groundwater Treatment in Ha Noi

Trinh Xuan Duc^{}, Tran Duc Ha, Le Anh Tuan, Nguyen Thi Thanh Hoa
and Nguyen Thi Viet Ha
Viet Nam Construction and Environment JSC, Vietnam*

A2-3 Mechanisms Driving Water Exchange Processes and Circulation in Sakai Channel, Japan

Muchebye Edwin^{}, Nakamura Yoshiyuki, Suzuki Takayuki, and Kamiya Hiroshi
Yokohama National University, Japan*

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B2: UNU-IAS Session: Urban Flood and Its Health Consequences [13:30 – 14:45 at Room B]

B2-1 Simulation of Flood Inundation in the Mega Cities of Southeast Asia, Case Study: Metro Manila

Ammar Rafiei Emam^{}, Binaya Kumar Mishra, Pankaj Kumar, Yoshifumi Masago and Kensuke Fukushi*

United Nations University – Institute for the Advanced Study of Sustainability, Japan

B2-2 Estimating Probability of Infection by Noroviruses in Floodwater: A Case Study in the Ciliwung River Basin, Indonesia

Yoshifumi Masago^{}, Biyana Kumar Mishra, Pankaj Kumar, Ammar Rafiei Emam, and Kensuke Fukushi*

United Nations University – Institute for the Advanced Study of Sustainability, Japan

B2-3 Does Urban Flood Fecally Contaminate Agricultural Fields at the Downstream? - A Case in Central Vietnam

T. Watanabe^{}, Y. Takada, H. V. Duong, L. K. Pham and J. Pu*

Yamagata University, Japan

A3: KURITA Session: Climate Change and Water Environment Management [16:00 – 17:40 at Room A]

A3-1 Climate Change Induced Impact on Agriculture and Food Security in Southwest Coastal Region of Bangladesh

Khondoker Mahub Hassan^{} and Hillol Chakma*

Khulna University of Engineering & Technology, Bangladesh

A3-2 Foreign Investment in Vietnam's Water Sector: Lessons from Bangladesh

Kimberley Thomas^{}*

University of Pennsylvania, USA

A3-3 Application of SIPHER Model in Analyzing Present and Future Water Temperature in Takasaki River, Chiba, Japan

Rajendra Khanal^{}, Yuichi Nagano, Kenji Taniguchi and Hiroaki Furumai*

The University of Tokyo, Japan

A3-4 Simulating Impacts of El Niño and Climate Change on Rainfed Corn in Isabela Province, Philippines using Aquacrop Model

Edgardo E. Tongson, Orlando F. Balderama^{}, Engr. Lanie A. Alejo, Vladimir A. Malabanan and Rhia T. Pantola*

Isabela State University, Philippines

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B3: UNU-IAS Session: Urban Water Quality Management [16:00 – 17:40 at Room B]

- B3-1 **Fostering Regional Cooperation and Collaboration Frameworks between Researchers and Policymakers through Policy-Relevant Nexus Research: Experiences of Nexus Observatory Regional Workshops in Asia**
Kristin Meyer and Mathew Kurian*
United Nations University – Institute for Integrated Management of Material Fluxes and of Resources, Germany
- B3-2 **An Initial Economic Evaluation of the Surface Water Quality Improvements in Metro Manila, the Philippines**
Shokhrukh Jalilov and Kensuke Fukushi*
United Nations University – Institute for the Advanced Study of Sustainability, Japan
- B3-3 **Quality Assessment and Scenario Modeling for Water Resource Management in the Context of Future Climate and Development Changes: Case of Jakarta City, Indonesia**
Pankaj Kumar, Yoshifumi Masago, Binaya Kumar Mishra, Ammar Rafiei Emam, and Kensuke Fukushi*
United Nations University – Institute for the Advanced Study of Sustainability, Japan
- B3-4 **The Estimation of Water Quality Based on New Scheme of Streeter-Phelps Equation for Upstream Site of Citarum River**
Nguyen Thi Ngoc Anh and Priana Soedjono*
Bandung Institute of Technology, Indonesia

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A4: Appropriate Technology for Water and Sanitation [08:30 – 09:20 at Room A]

- A4-1 **Biochemicals Content of *Aphanothece sp* Cultured in Photobioreactor Originated from an Urban Lake and its Dried Biomass Capability to Uptake Cadmium Ion in Aqueous Solution**
Awalina Satya, Andhini Nurulfadillah, Ardiyan Harimawan and Tjandra Setiadi*
The Indonesian Institute of Sciences LIPI-Cibinong Science Center, Indonesia
- A4-2 **Zyclone Cube as a Potential Sanitation Technology for Southeast Asian Countries**
Thammarat Koottatep, Saroj Kumar Chapagain, Atitaya Panuvatvanich, Araya Wicheansan, Isha Manandhar and Chongrak Polprasert*
Asian Institute of Technology, Thailand

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B4: Coastal and Marine Water Environment [08:30 – 09:20 at Room B]

B4-1 Siltation along Hinadkaban Bay, Surigao Provinces, Philippines: Impact of Nickel Laterite Mining on Coastal Water Quality

Dahlia C. Apodaca , Justine Perry T. Domingo, William R. Yuson, Carlo Dacera, Renato C. Tacubao, Junrey Lacorte, Carlos Primo C. David and Seville D. David Jr.
Mines and Geosciences Bureau, Philippines*

B4-2 Industrial Activities and Its Effects to River Water Quality (Case Study Citarum, Bengawan Solo and Brantas), An Evaluation for Java Island as an Economic Corridor in Master Plan of Acceleration and Expansion of Indonesia Economic Development (MP3EI) 2001-2025

Mochamad Adi Septiono, Dwina Roosmini , Indah Rachmatiah Siti Salami, Herto Dwi Ariesyadi, and Lufiandi
Institut Teknologi Bandung, Indonesia*

A5: Emerging Contaminants and Environmental Technology (2) [10:00 – 11:40 at Room A]

A5-1 Diffusive Leaching Behaviour of Sulfamethoxazole in Selected Soils

Neelancherry Remya , Ankit Singh, Chitransh Sharma, Gadde Naveena, Kunsoth Harith and Lakshmi P V
Indian Institute of Technology Bhubaneswar, India*

A5-2 Development of Activated Adsorbent from Water Treatment Sludge: Application for Constructed Wetland Media Treating Ammonium Nitrogen

Jedsada Chuiprasert, Nawatch Surinkul
Mahidol University, Thailand*

A5-3 Fate and Removal of Priority Phthalates in UASB + Polishing Pond Based Full Scale Wastewater Treatment Plant- a Sustainable Treatment Scheme of Developing Countries

Khalid Muzamil GANI and Absar Ahmad KAZMI
Indian Institute of Technology Roorkee, India*

A5-4 Biodegradation of Tiamulin by Bacterial Consortia Enriched from Swine Wastewater under Different Substrates

Nguyen Thi Kim Xuan, Parinda Thayanukul and Onruthai Pinyakong
Chulalongkorn University, Thailand*

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B5: Wastewater Treatment and Management (2) [10:00 – 11:40 at Room B]

B5-1 Metronidazole Removal in Freely-Suspended-Biomass and Carrier-Supported-Biomass Systems

Mathava Kumar and Gattum Sowjanya Rani B
Indian Institute of Technology Madras, India*

B5-2 Comparison of Nitrogen Removal Capability by Anammox Process in Fluidized Bed Reactor and Fix Bed Reactor

Nguyen Thi My Hanh, Tran Thi Hien Hoa, Nguyen Thuy Lien and Tetufumi Watanabe
Hanoi Architectural University, Viet Nam*

B5-3 Degradation Behavior of Polyhydroxyalkanoates Accumulated in Activated Sludge as a Possible Source of Bioenergy

S. M. Shamsul HUDA, Hiroyasu SATOH and Takashi MINO
University of Chittagong, Bangladesh*

B5-4 Performance Evaluation of a Submerged Anaerobic Membrane Bioreactor (AnMBR) Treating Slaughterhouse Wastewater in Hanoi city

Duong Thu Hang and Tran Thi Viet Nga
National University of Civil Engineering, Vietnam*

List of Papers for Poster Presentation

14:45 – 16:00 at Foyer Ballroom 1 on 29 November 2016

- P01 **Effect of Gel Bead Size on Nitrification by Polyvinyl Alcohol Entrapped Cells Treating Nitrogenous Wastewater**
*Darak Bootrak, Tunyakamon Jaidumrong, Lada Mathurasa and Chaiwat Rongsayamanont**
Prince of Songkla University, Thailand
- P02 **Methylene Blue Adsorption onto Functionalized Multi-Walled Carbon Nanotubes: Optimization through Response Surface Methodology**
Farshid Shoushtarian, Mohammad Reza Alavi Moghaddam and Elahe Kowsari*
Amirkabir University of Technology
- P03 **Cultivation of Rice for Animal Feeding with Continuous Irrigation of Treated Municipal Wastewater**
Dong Duy Pham, Sumiko Kurashima, Jian Pu and Toru Watanabe*
Iwate University, Japan
- P04 **Preliminary Assessment of VIC Hydrological Model Performance for Simulating Daily Streamflow of Red River System, Vietnam**
Nguyen Duc Luong, Nguyen Hoang Hiep, Faisal Hossain, Hyongki Lee, and Bui Du Duong*
National University of Civil Engineering, Vietnam
- P05 **Inactivation of Vancomycin-Resistant Enterococci and Their Resistance Gene Using Chlorine Disinfection**
Takashi FURUKAWA, Atsushi JIKUMARU and Takahisa UENO*
Oita College, Japan
- P06 **One-Year Monthly Monitor of Human Noroviruses in Oyster in Vietnam**
Gia Thanh Nguyen, Hiroaki Ito, Jian Pu, Nguyen Van An and Toru Watanabe*
Iwate University, Japan
- P07 **Strategic Assessment of the Key Stakeholders' Roles in the Irrigation Governance in Cambodia through Comparative SWOT Analysis**
Hironori HAMASAKI and Kong SOPHEAK*
Nagasaki University, Japan
- P08 **Establishment of Influent Parameters for Urban Sewerage Treatment Plant Design in Hanoi Area, Vietnam**
TRAN Duc Minh Hai, TRAN Duc Ha*
National University of Civil Engineering, Vietnam
- P09 **Application of Filtration Process to Improve the Quality of River Water Receiving Industrial Discharges in Majalaya, West Java, Indonesia**
Indah R S Salami, Farida Nurul I Yusriyani and Annisa Athifah*
Bandung Institute of Technology, Indonesia
- P10 **Typhoons Xangsane and Ketsana in Repectives of Hydrological and Agricultural Impacts**
Hong Quang NGUYEN, Duc Anh NGO, Thi Thu Hang LE and Thi Thanh Nga PHAM*
Vietnam Academy of Science and Technology, Vietnam

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14:45 – 16:00 at Foyer Ballroom 1 on 29 November 2016

- P11 **The Potential for Small Hydropower Development with JCM Co-benefits in Vietnam**
Lan Huong Nguyen and Kensuke Fukushi*
The University of Tokyo, Japan
- P12 **Current Situation of Pig Manure and Effluent Management in Vietnam**
D.T.H. Van, V.H. Cong, C.T. Son, N.T. Lam, P.N. Bao and T. Kuyama*
Vietnam National University of Agriculture, Vietnam
- P13 **Role of Acinetobacter sp. B 051 Inoculation on Enhancing 17 α Methyltestosterone Degradation in Biofiltration System**
Parinda Thayanukul, Satoshi Matsumoto, Halutay Saylun, Jonkolnee Praditpong, Pimvarat Srikwan, and Suttida Pliankarom Thanasupsin*
King Mongkut's University of Technology Thonburi, Thailand
- P14 **Removal Lead from Wastewater in Battery Recycle Village of Vietnam by Low Cost Adsorbent Created from Treated Fly Ash and Polyurethane Foams**
Pham Thi Hong, Nguyen Duc Long, Bui Thi Mai Huong and Do Thuan An*
Thuy Loi University, Vietnam
- P15 **Desalination of Brackish Water for Agriculture: Challenges and Future Perspectives for Highly Drought and Salt Intrusion Areas in Vietnam**
*Nguyen Lan Anh and Vo Huu Cong**
Vietnam National University of Agriculture, Vietnam
- P16 **Heavy Metals Distribution in Water and Sediment at Bengawan Solo River on Wonogiri-Sragen Segment**
*Husna Muizzati Shabrina and Dwina Roosmini**
Bandung Institute of Technology, Indonesia
- P17 **Bioaccumulation and Enzyme Activity Inhibition of Profenofos in Japanese medaka (Oryzias latipes Temminck and Schlegel, 1846)**
Rosalyn L. Pascual-Alburo, Jiro Koyama, Seiichi Uno and Eugene T. Bacolod*
Cebu Technological University, Philippines
- P18 **Effect of Operation Mode, Hydraulic Retention Time and Air Flow Rates on Textile Wastewater Treatment by Aerobic Granular Sludge**
*C. Choerudin, Iskandar Fauzi, and Tjandra Setiadi**
Bandung Institute of Technology, Indonesia
- P19 **River Partition Coefficient and Bioaccumulation of Selected Trace Metals in *Poecilia Reticulata* (Peters, 1859)**
Lora Mae G. Villegas, Leonila N. Adarna, Marilyn D. Piandong, Estherlina S. Ginete, Jill R. Quitayen, Rosemay N. Almirante, and Josephine M. Castañares*
University of San Carlos, Philippines
- P20 **The Prediction of Nitrogen in the Effluent of Intensive Shrimp Ponds**
Priana Sudjono and Purna Hindayani*
Bandung Institute of Technology, Indonesia
- P21 **Behavior of Humic Acid Recovery during the Mg²⁺ Concentration Method for Drinking Water Samples**
V. D. Canh, H. Katayama and H. Furumai*
The University of Tokyo, Japan