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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 Visvanathan
   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 17α-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
Muchebve Edwin*, Nakamura Yoshiyuki, Suzuki Takayuki, and Kamiya Hiroshi
Yokohama National University, Japan
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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

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 Mahbub 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. Malaban 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
Shokhrulk 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 Enam, 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 Kooitatap, 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
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 Chuipraser*, 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
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**P01** Effect of Gel Bead Size on Nitritation 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 Repetives 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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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
Vietnam National University of Agriculture, Vietnam

P13 Role of Acinetobacter sp. B 051 Inoculation on Enhancing 17αMethyltestosterone Degradation in Biofiltration System
Parinda Thayanukul*, Satoshi Matsumoto, Halutay Saylun, Jonkolnee Praditpong, Pimvarat Sriwkan, and Sudtida Plitkarom 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, Setichchi 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, Marily 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