

The 11th International Symposium on Southeast Asian Water Environment (SEAWE11)  
Bangkok, Thailand, November 26-28, 2014

**Program at a glance**

| Date                                   | Time           | Event  |
|--|----------------|--|
| Day 1<br>November 26, 2014 (Wednesday) | All day        | Technical Tour   |
| Day 2<br>November 27, 2014 (Thursday)  | Morning        | Opening ceremony<br>Keynote lecture<br>Parallel session 1  |
|  | Lunch          | Networking   |
|  | Afternoon      | Parallel session 2<br>Parallel session 3<br>Poster session |
|  | Evening        | Gala dinner  |
| Day 3<br>November 28, 2014 (Friday)    | Morning        | Morning lecture<br>Parallel session 4                      |
|  | Farewell lunch | Networking   |
|  | Afternoon      | Closing ceremony   |

**Technical Tour**

Day 1, November 26, 2014 (Wednesday)

| Time          | Event   |
|---------------|---|
| 7:50          | Meeting time at AITCC   |
| 8:00          | Departure from AITCC  |
| 9:00 - 11:00  | Bangkhen Water Treatment Plant: This plant supplies water 3,600,000 cubic meter per day. It is one of the biggest water treatment plants in Southeast Asia                              |
| 12:00 - 14:00 | Boat trip and have lunch at Koh Kred islands in Chao Phraya River: We can see the traditional pottery village and riverside culture   |
| 15:00 - 16:30 | Samsen Water Treatment Plant: It is the first Water Treatment Plant of Metropolitan Waterwork Authority and has been operated for 100 years. We will look around drinking water museum. |
| 18:00         | Arrive at AITCC   |

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## Technical program

| Day 1 <November 26, 2014 (Wednesday)> |   |   |   |
|---------------------------------------|---|---|---|
| Field trip                            |   |   |   |
| Day 2 <November 27, 2014 (Thursday)>  |   |   |   |
| 9:00 – 10:30                          | <b>Opening ceremony</b> <ul style="list-style-type: none"> <li>- <i>Opening remarks:</i> Prof. Hiroaki Furumai (The University of Tokyo, Japan)</li> <li>- <i>Welcome remarks:</i> Prof. Chettiyappan Visvanathan (Asian Institute of Technology, Thailand)</li> <li>- <i>Welcome remarks:</i> Mr. Soichiro Seki (Vice-Minister for Global Environment, Ministry of the Environment, Japan)</li> <li>- <i>Keynote lecture 1:</i> Prof. Kazuo Yamamoto (Vice President for Resource Development, AIT, Thailand)<br/><i>Title:</i> Tropical Technologies for Water Environment in South East Asia</li> <li>- <i>Keynote lecture 2:</i> Dr. Wijarn Simachaya (Deputy Permanent Secretary, Ministry of Natural Resources and Environment, Thailand)<br/><i>Title:</i> Water Environmental Management in Thailand</li> </ul> |   |   |
|                                       | 10:30 – 11:00 Coffee break  |   |   |
| 11:00 – 12:15                         | Room A < B202>  | Room B <Room B206>  | Room C <Room B108>  |
|                                       | <b>[A1] Monitoring of Water Environment</b><br>A1-1 <i>S Kritsanapuntu</i><br>A1-2 <i>IRS Salami</i><br>A1-3 <i>K Oginawati</i>   | <b>[B1] Wastewater Treatment – (1)</b><br>B1-1 <i>TTH Hoa</i><br>B1-2 <i>KM Gani</i><br>B1-3 <i>S Arora</i>   | <b>[C1] KURITA Session: Climate Change and Water Environment Management</b><br>C1-1 <i>K Rumjit</i><br>C1-2 <i>RUK Piyadasa</i><br>C1-3 <i>Manish Kumar</i> |
| 12:15 – 13:30 Lunch                   |   |   |   |
| 13:30 – 14:45                         | <b>[A2] Emerging Contaminants and Environment Technology</b><br>A2-1 <i>V Arutchelvan</i><br>A2-2 <i>Mathava Kumar</i><br>A2-3 <i>MRA Moghaddam</i>   | <b>[B2] Wastewater Treatment – (2)</b><br>B2-1 <i>AA Khan</i><br>B2-2 <i>AK Verma</i><br>B2-3 <i>ASM Chua</i> | <b>[C2] Project Session 1: Water Environmental Governance in Asia</b><br><i>Prof. Mitsumasa Okada</i><br><i>Dr. Wijarn Simachaya</i>                        |
|                                       | 14:45 – 16:00 Poster session <1F lobby>   |   |   |

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|               |  |   |  |
|---------------|--|---|--|
| 16:00 – 17:40 | <b>[A3] Project Session 2: Challenge in Water Management in Monsoon Asia</b><br>A3-1 <i>RI Haspari</i><br>A3-2 <i>BV Hung</i><br><i>Koji Mori</i><br><i>Daiwei Cheng</i> | <b>[B3] Project Session 3: Membrane Technology for Emerging Countries</b><br>B3-1 <i>HTT Dang</i><br>B3-2 <i>VD Canh</i><br><i>T Suzuki</i><br><i>H Yamamura &amp; K Itokawa</i><br><i>H Yamamura</i> | <b>[C3] Project session 1: Water Environmental Governance in Asia</b><br><i>Panel discussion</i> |
| 18:00 – 20:00 | Symposium dinner   |   |  |

**Day 3 <November 28, 2014 (Friday)>**

|               |   |   |  |   |
|---------------|---|---|--|---|
| 9:00 – 10:00  | - <i>Morning lecture:</i> Prof. Akimasa Sumi (President, The National Institute of Environmental Studies, Japan)<br><i>Title: From Climate Change to Sustainability Science</i> |   |  |   |
| 10:00 – 10:30 | Coffee break  |   |  |   |
|               | Room A<br>< B202>   | Room B<br><Room B206>   | Room C<br><Room B108>  | Room D<br><TV Room, 2F>   |
| 10:30 – 12:10 | <b>[A4] Water Sanitation and Health</b><br>A4-1 <i>M Husain</i><br>A4-2 <i>YP Thye</i><br>A4-3 <i>T Asami</i><br>A4-4 <i>KS Akter</i>   | <b>[B4] Wastewater Treatment –(3)</b><br>B4-1 <i>P Phungsai</i><br>B4-2 <i>R Palanca-Tan</i><br>B4-3 <i>DP Apriadi</i><br>B4-4 <i>P Jacob</i> | <b>[C4] Project Session 1: Water Environment Management</b><br><i>SK Boontanon</i><br>C4-1 <i>TTV Nga</i><br><i>GBB Herath</i><br>C4-2 <i>RC Ancog</i> | <b>[D1] Biomass Management and Groundwater</b><br>D1-1 <i>P Chantrasakdakul</i><br>D1-2 <i>T Imai</i><br>D1-3 <i>C Chiemchaisri</i><br>D1-4 <i>PS Datta</i> |
| 12:10 – 13:30 | Lunch   |   |  |   |
| 13:30 – 14:30 | <b>Closing ceremony</b><br>- <i>Award ceremony:</i><br>- <i>Announcement of SEAW12</i><br>- <i>Closing remarks</i>  |   |  |   |

**Keynote lecture 1 (27 Nov)**

***Tropical Technologies for Water Environment in South East Asia***

Prof. Kazuo Yamamoto

Vice President for Resource Development at the Asian Institute of Technology (AIT)

Professor, Environmental Science Centre, The University of Tokyo (UT)



Prof. Kazuo Yamamoto graduated from Department of Urban Engineering, Faculty of Engineering, The University of Tokyo (UT) in 1977, and received his Master's in 1979 and his PhD in 1983. In 1985, he was appointed as Associate Professor of Faculty of Engineering, UT and seconded to Asian Institute of Technology (AIT) for two years from 1987. He had served as Professor, Faculty of Engineering and then Environmental Center, UT since 1995, Director, Environmental Science Centre (2003-2007), and Visiting Professor & Senior Advisor to the AIT President (October to December, 2013). In January 2014, he was appointed as Vice President for Resource Development at the AIT and currently also serves as Professor in the Environmental Science Center, as well as Professor in charge of graduate program, Department of Urban Engineering, Graduate School of Engineering, UT. He has served as President of Water Reuse Promotion Center, Japan, since 2010. Membrane Bioreactor development is his major research contribution, by which he got various awards, such as Sidney Loeb Award (European Desalination Society, 2008), Membrane Technology Award (Membrane Technology Specialist Group, International Water Association, 2009), Academic Award (Japan Society on Water Environment, 2013), and so on. He conducted a JICA-JST SATREPS project, i.e. Water Reuse Technologies in Tropical Regions, in Thailand (2009 – 2013).

**Keynote lecture 2 (27 Nov)**

***Water Environmental Management in Thailand***

Dr. Wijarn Simachaya

Deputy Permanent Secretary, Ministry of Natural Resources and Environment, Thailand



Dr. Wijarn is currently holding the position of Deputy Permanent Secretary of the Ministry of Natural Resources and Environment. He has been involved with environmental issues both in the local and international contexts through his previous responsibility at the Pollution Control Department and the Office of Natural resources and Environmental Policy and Planning. His past experience includes establishing systems for pollution prevention and management, biodiversity conservation, improving policies and legislation related to environmental technology, and encouraging cooperation on pollution control technology, environmental analysis and water quality management.

His background knowledge ranges from science (chemistry at Chiang Mai University and Environmental Science at Kasetsart University), laws (Ramkhumheang University) to engineering (Ph.D. in Environmental Engineering from the University of Guelph, Canada), the disciplines necessary for environmental management that relate technical with policy aspects. He represented the Ministry of Natural Resources and Environment in many occasions especially in the international forums including the United Nations Conference on Sustainable Development or “Rio+20”.

**Morning lecture (28 Nov)**

*From Climate Change to Sustainability Science*

Prof. Sumi Akimasa

President, The National Institute of Environmental  
Studies (NIES), Japan



Education (Final degree): 1985, D.Sc., The University of Tokyo

Professional Experience:

|                |   |
|----------------|---|
| 1973 – 1979    | Public Officer, Japan Meteorological Agency.                      |
| 1979 – 1981    | Research Associate, University of Hawaii                          |
| 1981 – 1985    | Special Officer, Japan Meteorological Agency.                     |
| 1985 – 1991    | Associate Professor, Dept. of Geophysics, The University of Tokyo |
| 1991 – 2006    | Professor, CCSR, The University of Tokyo                          |
| 2006 – 2012    | Professor, Exective Director, IR3S/TIGS, The University of Tokyo  |
| 2012 – 2013    | Vice President, National Institute of Environmental Studies       |
| 2013 – Present | President, National Institute of Environmental Studies            |

Main Research Field:

Climate Modelling, and Climate Dynamics  
Sustainability Science

Awards:

|      |   |
|------|---|
| 1983 | Yamamoto Award of Meteorological Society of Japan |
| 1994 | Fujiwara Award of Meteorological Society of Japan |
| 2004 | Nikkei Earth Environmental Award                  |

Project session 1

**Dialogue among policy makers and researchers  
for better water environmental governance in Asia**

**Program 1:** Time: 13:30-17:40, 27 Nov, Room C (B108)

**Program 2:** Time: 10:30-12:10, 28 Nov, Room C (B108)

**Organizer:** Water Environment Partnership in Asia (Ministry of the Environment, Japan)

**Overview:** This session will provide the opportunity of dialogue among policy makers and researchers for improving water environmental governance in Asia. Main objectives of the session are not only to share the topic of policy oriented research required by Asian policy makers dealing with water environmental management but also to discuss collaboration framework between policy makers and researchers for improvement of water environment in Asia.

**Program 1: 13:30-17:40, 27 Nov.**

Chairperson: Mr. Tetsuo Kuyama

*Manager (Water Resource Management), Institute of Global Environmental Strategies (IGES)  
(WEPA Secretariat)*

- |             |   |
|-------------|---|
| 13:30-13:45 | Introduction of the session by chairperson  |
| 13:45-14:15 | Kickoff presentation1: <b>Role of water experts/researchers in policy making process and importance of policy oriented research for future Asia</b> (tentative)<br>Prof. Mitsumasa Okada<br><i>Professor, Open University (Chairman of WEPA Advisory Board)</i>                               |
| 14:15-14:45 | Kickoff presentation 2: <b>Prioritized policy agenda in water environmental management and role of water experts for policy making process in Thailand</b> (tentative)<br>Dr. Wijarn Simachaya<br><i>Deputy Permanent Secretary, Ministry of Natural Resources and Environment (Thailand)</i> |
| 14:45-16:00 | Poster session (SEAWE11) & Coffee Break   |
| 16:00-17:40 | Panel discussion  |

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Panel discussion

Facilitator: Prof. Mitsumasa Okada

Panelist:

Dr. Wijarn Simachaya

*Deputy Permanent Secretary, Ministry of Natural Resources and Environment (Thailand)*

Dr. Nguyen The Dong

*Deputy General Director, Vietnam Environment Administration (Vietnam)*

Dr. Budi Kurniawan

*Head of Infrastructure and Services, Ministry of Environment (Indonesia)*

Dr. Vicente B. Tuddao Jr.

*Director for Government and Enforcement, Department of Environment and Natural Resources (Philippines)*

Discussion Points

- Issues of water environment management
- Example of policy oriented research
- Role of experts/researchers in policy making process

**Program 2: 10:30-12:10, 28 Nov.**

Parallel Session: Water Environment Management

- |             |   |
|-------------|---|
| 10:30-10:55 | <b>Wastewater Management in Bangkok</b> (tentative)<br>Suwanna Kitpati Boontanon *<br>* <i>Mahidol University (Thailand)</i>  |
| 10:55-11:20 | <b>Wastewater characterization and its impacts to the performance of water treatment plant in Hanoi City, Vietnam</b> (SEAW11 presentation)<br>T.T.V. Nga *, V. D. Canh, and P. A. Zuber<br>* <i>National University of Civil Engineering (Vietnam)</i>   |
| 11:20-11:45 | <b>Water Quality Management Policy: Current Situation and Issues</b> (tentative)<br>G.B.B. Herath *<br>* <i>University of Peradeniya (Sri Lanka)</i>  |
| 11:45-12:10 | <b>Coliform contamination of indigenous clam, <i>Batissa violacea</i> (Lamarck, 1818) (Bivalvia) in Cagayan River, Philippines: Implications to human health safety</b> (SEAW11 presentation)<br>Aeron Donato Mayor and Rico C. Ancog *<br>* <i>University of the Philippines Los Baños (Philippines)</i> |



Project session 2

### **Challenge in water management in Monsoon Asia**

Time: 16:00-17:40, 27 Nov, Room A (B202)

**Organizer:** Research Unit on Hydraulics and Hydrology (Prof. Tadashi Yamada, Chuo Univ., Japan)

**Overview:** In this session, the hydrological research will be presented from three countries, Indonesia, Vietnam and Japan. Interestingly, all three countries belong to Monsoon Asia, which is suffering from water issues. Through this session, I hope we exchange the idea and knowledge to tackle the coming water issues.

Program:

- |             |  |
|-------------|--|
| 16:10-16:35 | <b>Vulnerability Assessment of Lahar Disaster at Upper Konto Basin due to Kelud Volcano Eruption</b><br>Ratih Indri Hapsari <i>et al.</i> , <i>State Polytechnic of Malang (Indonesia)</i> |
| 16:35-17:00 | <b>Storms – floods assessment year 2013 in central highland: happening and levels of damage</b><br>Bui Viet Hung, <i>Ho Chi Minh City University of Sciences (Vietnam)</i>                 |
| 17:00-17:20 | <b>A Nature-Based, Direct Watershed Simulation for Monsoon Asia</b><br>Koji Mori, <i>Geosphere Environmental Technology Corp. (Japan)</i>  |
| 17:20-17:40 | <b>Collision analysis using GPU-based Moving Particle Semi-implicit (MPS) method</b><br>Daiwei Cheng, <i>Chuo University (Japan)</i>   |

Project session 3

**Membrane technology for emerging countries**

Time: 16:00-17:40, 27 Nov, Room B (B206)

**Organizer:** Research Unit on Water and Wastewater Treatment Technology (Dr. Hiroshi Yamamura, Chuo Univ., Japan)

**Overview:** The use of membrane is now drawing attention not only in developed countries but also in emerging countries. This is because the use of membrane provides a lot of benefits including easy maintenance, small foot print and strict removal of target contaminants, all suite for the emerging countries. However, in fact, installation of the membrane technology in emerging countries is still difficult due to the fouling development, high energy consumption and high initial cost. The session hope to serve as an international platform for exchange of knowledge and experiences between water professionals from academics and industry about the latest development and applications of membrane technology.

In this session, four presentation will be given by both Vietnam and Japan. First two is Viet speakers. They will give the research about waste water treatment. In Vietnam, urbanization rapidly spread, and as a result the importance of waste water treatment is now increasing, where the potential membrane users are enormous. The latter two is Japanese speakers. They will give the presentation about water reuse technology for industrial area. Maezawa Industries, Inc. will talk about the membrane-ion-exchange hybrid process. Fuji Electric co., Ltd. will talk about the technology for the reuse of "used membrane".

Program:

- |             |   |
|-------------|---|
| 16:10-16:35 | <b>Application of UF membrane process for coalmine wastewater treatment for reuse</b><br>H.T.T. Dang <i>et al.</i> , <i>National Univ. of Civil Eng. (Vietnam)</i>  |
| 16:35-17:00 | <b>Anaerobic membrane bioreactor for low-strength wastewater treatment in Hanoi City. Effect of HRT on treatment efficiency and membrane fouling</b><br>Vu Duc Canh <i>et al.</i> , <i>National Univ. of Civil Eng. (Vietnam)</i>   |
| 17:00-17:15 | <b>The study of the processing of high-color surface water by the hybrid MF membrane system in Thailand</b><br>T. Suzuki, <i>Maezawa Industries Inc. (Japan)</i> ; Rachnarin Nitisoravut, <i>SIIT (Thailand)</i> ; Chongrak Polprasert, <i>Thammasat Univ. (Thailand)</i> |
| 17:15-17:30 | <b>Effective utilization of used RO membrane: application to recycling of industrial waste water in emerging countries</b><br>H. Yamamura, <i>Chuo Univ, (Japan)</i> ; K. Itokawa, <i>Fuji Electric Co., Ltd. (Japan)</i>   |
| 17:30-17:40 | <b>Strategy for nurturing young students as highly skilled professional in water field</b><br>H. Yamamura, <i>Chuo Univ. (Japan)</i>  |

[LIST OF PAPERS FOR ORAL PRESENTATION]

**ORAL PRESENTATIONS**

**A1: Monitoring of Water Environment <Room B202> 11:00 – 12:15**

- A1-1      **Preliminary Assessment of Freshwater Mussel *Chamberlainia hainesiana* As an Alternative Way for Water Monitoring at Fish-Cage Farming Areas in the Tapi-Phum Duang Rivers, Southern Thailand**  
*Sirusa Kritsanapuntw<sup>\*</sup>, Lux Innun and Sontip Danteravanich*  
*Prince of Songkla University, Thailand*
- A1-2      **Ecotoxicological effects of textile waste effluents on *Daphnia magna* and *Allium cepa* in the upstream segment of Citarum River, West Java, Indonesia**  
*Indah R S Salami<sup>\*</sup>, Tika Maulini, Marthalina Iriany and Dwina Roosmini*  
*Institute of Technology Bandung, Indonesia*
- A1-3      **Organochlorine distribution in water, sediment, mollusk and fish at saguling reservoir, Citarum river watershed, Bandung, Indonesia**  
*Katharina Oginawati<sup>\*</sup>, Moh. Irsyad, Asep Nugraha and Sri Intan Rahmawati*  
*Institute of Technology Bandung, Indonesia*

**B1: Wastewater Treatment – (1) <Room B206> 11:00 – 12:15**

- B1-1      **Comparisons nitrogen removal capacities by anammox process using different biomass carriers**  
*Tran Thi Hien Hoa<sup>\*</sup>, Luong Ngoc Khanh and Kenji Furukawa*  
*National University of Civil Engineering, Vietnam*
- B1-2      **A pilot scale study of Moving Bed Biofilm Reactor with Polyvinyl alcohol gel as biomass carriers for enhanced nutrient removal**  
*Khalid M Gani<sup>1\*</sup>, Jasdeep Singh, Muntjeer Ali, Vipin Rose, and AA Kazmi*  
*Indian Institute of Technology Roorkee, India*
- B1-3      **Microbial diversity in vermifiltration system for the combined wastewater and organic fraction of municipal solid waste (OFMSW) treatment**  
*Arora S<sup>\*</sup> and Kazmi A A*  
*Indian Institute of Technology Roorkee, India*

**[LIST OF PAPERS FOR ORAL PRESENTATION]**

**C1: Climate Change and Water Environment Management <Room B108> 11:00 – 12:15**

- C1-1      **Assessment and perspectives of seawater quality used for coastal aquatic cultivation in Bandon Bay, Southern Thailand**  
*Kassarinn Rumjit<sup>\*</sup>, Amonpak Nanakorn, Panalee Chevakidagarn and Sontip Danteravanich*  
*Prince of Songkla University, Thailand*
- C1-2      **Saline water intrusion along the river Benthara and its impact on irrigation water in southern Sri Lanka**  
*Ranjana U K Piyadasa<sup>\*</sup>, S A D V K Wijesundara*  
*University of Colombo, Sri Lanka*
- C1-3      **Imprints of climate change on the Eastern Himalayan high altitude freshwater lake Pangang Teng Tso**  
*Jyoti Prakash Deka, Sangeeta Singh, Amit Prakash and Manish Kumar<sup>\*</sup>*  
*Tezpur University, India*

**A2: Emerging Contaminants and Environment Technology <Room B202> 13:30 – 14:45**

- A2-1      **Alleviation of toxic hexavalent chromium using indigenous novel aerobic bacteria isolated from contaminated sites of tannery industry**  
*Siddhartha Pandey, Arutchelvan V<sup>\*</sup>, Venkatesh K R and Nitin Kumar Singh*  
*Annamalai University, India*
- A2-2      **Sulfamethoxazole Removal in a Granular Activated Carbon Immobilized TiO<sub>2</sub> (GAC-TiO<sub>2</sub>) photocatalytic System**  
*Raju C Asha and Mathava Kumar<sup>\*</sup>*  
*National Institute of Technology Calicut, India*
- A2-3      **The effect of electrode shapes on optimized operating costs of Acid Brown 14 removal in a continuous electrocoagulation process**  
*Mohammad Ali Hosseini and Mohammad R A Moghaddam<sup>\*</sup>*  
*Amirkabir University of Technology Iran*

**[LIST OF PAPERS FOR ORAL PRESENTATION]**

**B2: Wastewater Treatment – (2) <Room B206> 13:30 – 14:45**

- B2-1      **Feasibility Study of Sequencing Batch Reactor (SBR) for Upflow Anaerobic Sludge Blanket (UASB) Effluent Upgrade**  
*Abid Ali Khan \**, *Indu Mehrotra* and *AA Kazmi*  
*Jamia Millia Islamia, India*
- B2-2      **Textile Wastewater Reclamation using an Integrated Treatment Process**  
*Akshaya Kumar Verma \**, *Puspendu Bhunia* and *Rajesh Roshan Dash*  
*Anusandhan University, India*
- B2-3      **Efficient production of polyhydroxyalkanoates from fermented palm oil mill effluent by activated sludge**  
*Wee Shen Lee*, *Adeline Seak May Chua \**, *Hak Koon Yeoh* and *Gek Cheng Ngoh*  
*University of Malaya, Malaysia*

**A3: Challenge in Water Management in Monsoon Asia <Room B202> 16:00 – 17:40**

- A3-1      **Vulnerability Assessment of Lahar Disaster at Upper Konto Basin due to Kelud Volcano Eruption**  
*Ratih Indri Hapsari \** and *Satoru Oishi*  
*State Polytechnic of Malang, Indonesia*
- A3-2      **Storms – floods assessment year 2013 in central highland: happening and levels of damage**  
*Hung B V*  
*Ho Chi Minh City University of Sciences, Vietnam*

**B3: Membrane Technology for Emerging Countries <Room B206> 16:00 – 17:40**

- B3-1      **Application of UF membrane process for coalmine wastewater treatment for reuse**  
*H T T Dang \**, *H D Tran*, *S H Tran*, *V A Nguyen* and *H M Zaw*  
*National University of Civil Engineering, Vietnam*
- B3-2      **Anaerobic membrane bioreactor for low-strength wastewater treatment in Hanoi City: Effect of HRT on treatment efficiency and membrane fouling**  
*Vu Duc Canh \**, *Tran Thi Viet Nga*, *Maiho Kobayashi* and *Shinichiro Wakahara*  
*National University of Civil Engineering, Vietnam*

**[LIST OF PAPERS FOR ORAL PRESENTATION]**

**A4: Water Sanitation and Health <Room B202> 10:30 – 12:10**

- A4-1      **Effect of water sanitation on child health in a slum population**  
*Munira Husain \* and Vishal Nadkarni*  
*MJB Govt. Girls PG College, India*
- A4-2      **A conceptual framework for assessing post-disaster emergency sanitation technologies**  
*Yoke Pean Thye \*, Agus Jatnika Effendi, Prayatni Soewondo, Damir Brdjanovic and Tjandra Setiadi*  
*Bandung Institute of Technology, Indonesia*
- A4-3      **Evaluation of virus removal efficiency in rapid sand filtration for risk assessment at a water treatment plant in Bangkok**  
*Tatsuya Asami \*, Hiroyuki Katayama, Chettiyappan Visvanathan and Hiroaki Furumai*  
*The University of Tokyo, Japan*
- A4-4      **Influence of water use attitudes of residential people on their opinion about water issues in Dhaka, Bangladesh**  
*Kazi Shamima Akter \*, Kiyo Kurisu and Keisuke Hanaki*  
*University of Asia Pacific, Bangladesh*

**B4: Wastewater Treatment – (3) <Room B206> 10:30 – 12:10**

- B4-1      **Molecular Characterization and Transformation of Low Molecular Weight Organic Matter along with Water Reclamation Processes**  
*Phungsai P \*, Kurisu F, Kasuga I and Furumai H*  
*The University of Tokyo, Japan*
- B4-2      **Health and water quality benefits of alternative sewerage systems: A choice modeling approach**  
*Rosalina Palanca-Tan \**  
*Ateneo de Manila University, Philippines*
- B4-3      **Physical Analysis of Wastewater Treatment System Application Failure in River Swamp Area (Case Study in Seberang Ulu I District, Palembang City, Indonesia)**  
*Dyah Wulandari Putri, Dian Permatasari Apriadi \*, Prayatni Soewondo, Agus Jatnika Effendi and Tjandra Setiadi*  
*Institut Teknologi Bandung, Indonesia*

**[LIST OF PAPERS FOR ORAL PRESENTATION]**

- B4-4 Pilot scale study on second stage water recovery from cooling tower blow down**  
*Paul Jacob \**, *Mov Chimeng and Chettiyappan Visvanathan*  
*Asian Institute of Technology, Thailand*

**C4: Water Environment Management <Room B108> 10:30 – 12:10**

- C4-1 Wastewater characterization and its impacts to the performance of water treatment plant in Hanoi City, Vietnam**  
*T T V Nga \**, *V D Canh, and P A Zuber*  
*National University of Civil Engineering, Vietnam*
- C4-2 Coliform contamination of indigenous clam, *Batissa violacea* (Lamarck, 1818) (*Bivalvia*) in Cagayan River, Philippines: Implications to human health safety**  
*Aeron Donato Mayor and Rico C Ancog \**  
*University of the Philippines, Philippines*

**D1: Biomass Management and Groundwater <TV Room, 2F> 10:30 – 12:10**

- D1-1 Biogas production from filamentous algal biomass in semi-continuous anaerobic digestion**  
*Phrompol Chantrasakdakul \**, *Kwanyong Lee, Daegi Kim and Ki Young Park*  
*Konkuk University, Republic of Korea*
- D1-2 Statistical optimization of medium components for hydrogen production from wooden hydrolysate by thermophilic anaerobic mixed culture**  
*Phummala K, Imai T \*, Higuchi T, Kanno A, Yamamoto K, Sekine M and Reungsang A*  
*Yamaguchi University, Japan*
- D1-3 Stabilization of solid wastes and greenhouse gas production in partially aerated landfill**  
*C Suethep, N Sutthasil, C Chiemchaisri \*, W Chiemchaisri, K Wangyao, S Towprayoon, K Endo and M Yamada*  
*Kasetsart University, Thailand*
- D1-4 Assessing groundwater suitability in the exploited phreatic aquifers of an intensive agro-ecosystem**  
*S K Tyagi, P S Datta \*, N K Pruthi and Ravender Singh*  
*Indian Agricultural Research Institute, India*

**[LIST OF PAPERS FOR POSTER PRESENTATION]**

**POSTER PRESENTATIONS**

- P1      Cadmium ion adsorption onto oxidized bead-shaped activated carbon prepared with different oxidation time**  
*Kotaku Takeuchi <sup>\*</sup>, Yoshimasa Amano, Motoi Machida and Fumio Imazeki*  
*Chiba University, Japan*
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