

Friday, 30 Nov 2018

## The 6<sup>th</sup> International Symposium on Water Environment Systems

Place: Room 101, Engineering Laboratory Complex building, Tohoku University

09:00 ~ 09:10 **Opening address**

09:10 ~ 09:20 **Memorial photo**

### **Session I**

09:20 ~ 09:50 | Development of urban flood disaster prediction techniques using weather forecasting information: a case study of Seoul, Korea  
Seongsim Yoon

*Korea Insitute of Civil Engineering and Building Technology*

09:50 ~ 10:20 | Evaluation of landslide hazards in North Vietnam using TRIGRS model under impact of climate change  
Thuy Thi Thanh LE

*Fukushima University*

10:20 ~ 10:50 | Estimating runoff in perennial and ephemeral catchments: a disaggregated flow duration curve approach  
Chris Leong

*Fukushima University*

10:50 ~ 11:00 **Coffee break**

### **Session II**

11:00 ~ 11:30 | Characteristics and seasonal fluctuations of invertebrate species eDNA concentration in forest, agriculture, and urban river  
Noriko Uchida

*Tohoku University*

11:30 ~ 12:00 | Forest fire severity estimation for the 2017 Kamaishi forest fire

Grace Puyang Emang

*Tohoku University*

12:00 ~ 13:00 **Lunch break**

13:00 ~ 14:00 **Poster exhibition**

Place: **Room 201**, Engineering Laboratory Complex building, Tohoku University

- Beach Nourishment as an Adaptation to Future Beach Loss due to Sea Level Rise in Thailand  
Chatuphorn Somphong  
*Tohoku University*
- The impact of spatial discretization scale on urban hydrological modeling performance and prediction  
Qing Chang  
*Tohoku University*
- Using MODIS to detect crop type changes in the Aral Sea Basin in the 21st Century  
Mbugua Jacqueline Muthoni  
*Tohoku University*
- Remote estimation of rice crop yield using MODIS Vegetation Indices data:  
Vempi Satriya Adi Hendrawan  
*Tohoku University*
- Preliminary study of grape farmers' perception to changing climate in Takahata city, Yamagata prefecture, Japan  
Sopha Soliya  
*Tohoku University*
- Estimation of woody debris recruitment by landslides:  
A Case study of Typhoon Lionrock in Iwaizumi, Japan  
Akihiro Ichiba  
*Tohoku University*
- Evaluation and sensitivity analysis for surface and bottom snowmelt process by runoff analysis  
Koji Sakamoto  
*Tohoku University*
- Estimation of nutrient distribution in Mekong river floodplain using satellite images  
Keitaro Yamada  
*Tohoku University*

- Long-term change and spatial anomaly of precipitation in Osaka,  
Ryosuke Inomata  
*Tohoku University*
- Performance of sewage treatment and bioenergy production using  
duckweed  
Hiroshi Iwano  
*Tohoku University*
- Mesophilic and Thermophilic Temperature Phased Anaerobic  
Digestion of Paper Waste Containing Food Waste: the Effects of  
Hydraulic Retention Time  
Aijun Zhu  
*Tohoku University*
- Use of PMA-PCR for revelation of viable microbial members in  
anaerobic digesters  
Jialing Ni  
*Tohoku University*
- Optimization of cultivation of humic acid reducing bacteria based on  
ORP/pH feedback  
Runda Du & Jinmei Sun  
*Tohoku University & Tianjin University*
- The effects of pre-acidification on the granule sludge perperties in the  
anaerobic treatment of starch wastewater  
Bo Feng  
*Tohoku University*
- Development of urban resource recovery system by methane  
fermentation and disposal waste water treatment  
Ming Cong  
*Tohoku University*
- Co-digestion of food waste and sewage sludge in Anaerobic  
Membrane Reactor  
Yemei Li  
*Tohoku university*

- The potential appearance of free-chlorine resistant norovirus after disinfection process in wastewater

Andri Taruna Rachmadi

*Tohoku University*

### **Session III**

14:00 ~ 14:30 The effect Removal of Cesium from Simulated Wastewater by a Countercurrent Two-stage Adsorption-Microfiltration Process of organic matter on one-stage anammox process

Ping Gu & Guanghui Zhang

*Tianjin University*

14:30 ~ 14:50 Biohydrogen Production (BHP) and Biomethane Production (BMP) Potential from Palm Oil Mill Effluent (POME)

Khairunnisa ABDUL HALIM

*Universiti Teknologi Malaysia*

14:50 ~ 15:00 **Coffee break**

### **Session IV**

15:00 ~ 15:20 Methane Fermentation Treatment of Fish Processing Wastewater by A Self-agitated Anaerobic Baffled Reactor (SA-ABR)

Eli Hendrik Sanjaya

*Tohoku university & State University of Malang*

15:20 ~ 15:40 The potential treatment for palm oil mill effluent

Siti Nur Fatimah Binti Moideen

*Tohoku university*

15:40 ~ 16:00 Assessment of slaughterhouse wastewater treatment plant using a combination of UASB and Activated Sludge

Chaimaa Mribet

*Tohoku university*

16:00 ~ 16:20 Using microbial quantification for Water, Sanitation and Hygiene (WASH) intervention study in rural Nepal

Sital Uprety

*Tohoku university*

16:20 ~ 16:35 **Coffee break**

## **Session V**

16:35 ~ 16:55 Nitrogen removal performance of an anammox membrane reactor operated at 25°C with increasing sludge loading rate  
Ying Song & Weikang Qi  
*Tohoku university & Beijing University Of Chemical Technology*

16:55 ~ 17:15 Successful Operation Performance of Partial Nitritation and Anammox Reactor Treating Low-  
Yujie Chen  
*Tohoku university*

17:15 ~ 17:35 The combination application study of anaerobic fermentation and anammox technology in waste organic matter control  
Chenglei Xie  
*Tohoku university*

17:35 ~ 17:55 Simultaneous Nitrogen and Phosphorus Recovery using an anammox Expanded Bed Reactor at Low Temperature  
Yuanfan Zhang  
*Tohoku university*

17:55 ~ 18:15 **Closing speech**

18:15 ~ 20:00 **Dinner party**