



e-ASIA Joint Research Program Workshop on
“Intelligent Infrastructure for Water”

Co-organized by Directorate of Water Resources (DWR) and Institute of Water Resources Planning (IWRP) of Vietnam, Japan Science and Technology Agency (JST), and e-ASIA JRP Secretariat

Date: February 21st and 22nd, 2019

Venue: Big Meeting Room, 3rd Floor, IWRP Office, Hanoi, Vietnam

Workshop Agenda

February 21st (Thursday)

Time	Program
08:00 – 08:30	Registration @ Big Meeting Room, 3rd Floor, IWRP Office
Opening Session <i>MC: Ms. Do Thuy Ha, IWRP</i>	
08:30 – 08:40	Opening Remarks <i>Mr. Do Van Thanh, Deputy Director General, DWR</i>
08:40 – 08:45	Opening Remarks <i>Mr. Osamu Kobayashi, Director, International Affairs, JST</i>
08:45 – 08:50	Welcome Remarks <i>Mr. Luong Ngoc Chung, Deputy Director, IWRP</i>
08:50 – 09:10	Keynote Speech: Expectation for the Workshop and Introduction to e-ASIA JRP <i>Dr. Haruo Takeda, Corporate Chief Engineer, Research & Development Group, Hitachi, Ltd.</i>
09:10 – 09:20	Group Photo
9:20 – 9:30	Tea Break
Technical Session < Objectives > <ul style="list-style-type: none"> · Discuss issues and concerns in the topics area, and potential solutions. · Prepare observations and recommendations of the Workshop for Wrap-up. · Develop project ideas and possibility of joint research activities. < Time allotted to each Speaker > <ul style="list-style-type: none"> · 15 minutes each for Presentation + 20 minutes for Group Q&A 	

Session1: Smart/Intelligent Infrastructure for Climate Change Adaptation <i>Chairs: Prof. Shinjiro Kanae (Tokyo Institute of Technology) and Dr. Dao Trong Tu (Viet Nam Commission on Irrigation and Drainage)</i>	
09:30 – 09:45	Speaker 1-1 “Toward next-generation terrestrial water cycle and water resources modelling to be used for intelligent infrastructure for water” <i>Prof. Shinjiro Kanae, Tokyo Institute of Technology, Japan</i>
09:45 – 10:00	Speaker 1-2 “Water management in Vietnam in the climate change context” <i>Dr. Dao Trong Tu, Vietnam Commission on Irrigation and Drainage (VNCID), Vietnam</i>
10:00 – 10:15	Speaker 1-3 “Impact of a Massive Earthquake on Groundwater Level” <i>Prof. Akira Kawamura, Tokyo Metropolitan University, Japan</i>
10:15 – 10:30	Speaker 1-4 “An Integrated Rainfall Data System (IRDAS) for a better management over Southeast Asia” <i>Assoc.Prof. Ngo Duc Thanh, University of Science and Technology of Hanoi, Vietnam</i>
10:30 – 10:45	Speaker 1-5 “Enhancing the Capability for Water Resources Assessment in the Philippines in View of Climate Change Impacts” <i>Dr. Romeo L. Gilbuena, Jr., Woodfields Consultants, Inc., Philippines</i>
10:45 – 11:00	Speaker 1-6 “Remote sensing application into water management in Vietnam” <i>Mr. Ha Thanh Lan, IWRP, Vietnam</i>
11:00 – 11:15	Q&A for Session 1
Session2: Smart/Intelligent Infrastructure for Water Quality and Environment <i>Chairs: Assoc.Prof. Hiroyuki Katayama (Univ of Tokyo) and Assoc.Prof. Nguyen Van Tuan (IWRP)</i>	
11:15 – 11:30	Speaker 2-1 “Toward the road to IoT-aid smart drinking water treatment” <i>Assoc.Prof. Hiroshi Yamamura, Chuo University, Japan</i>
11:30 – 11:45	Speaker 2-2 “Increasing Adoption of Smart Water Management: Case Studies in the Philippines” <i>Ms. Carla Alexis Manalo, Hiraya Technology Solutions, Inc., Philippines</i>
11:45 – 12:00	Speaker 2-3 “Urban water pollution in Vietnam, causes and solutions”

	<i>Assoc.Prof. Nguyen Thi Hang Nga, Thuy Loi University, Vietnam</i>
12:00 – 12:15	Speaker 2-4 “A simple and rapid method for enumerating the number of Escherichia coli in wastewater by measuring β-D-glucuronidase activity” <i>Assoc.Prof. Hisashi Sato, Hokkaido University, Japan</i>
12:15 – 12:30	Speaker 2-5 “Electronics and Computer Technology for intelligent infrastructure related to water resource -- From crest to coast--” <i>Dr. Kanokvate Tungpimolrut, National Electronics and Computer Technology Center, Thailand</i>
12:30 – 12:45	Speaker 2-6 “Dynamics of groundwater flow in Phu Quy Island, Vietnam” <i>Assoc. Prof. Nguyen Cao Don, Institute of Water Resources Science – MONRE, Vietnam</i>
12:45 – 13:05	Q&A for Session 2
13:05 – 14:00	Lunch Break @ IWRP Office Canteen
Session3: Smart/Intelligent Infrastructure for Management and Operation Chairs: Assoc.Prof. Takanori Nagano (Kobe Univ) and Assoc.Prof. Le Thi Kim Cuc (DWR)	
14:00 – 14:15	Speaker 3-1 “Recent technologies of water management in rice paddy fields in Japan and our future research needs” <i>Assoc.Prof. Toshiaki Iida, University of Tokyo, Japan</i>
14:15 – 14:30	Speaker 3-2 “Developing Automatic Subsurface Irrigation and Drainage using Sheet-pipe typed Mole Drain” <i>Prof. Dr. Budi Indra Setiawan, Bogor Agricultural University, Indonesia</i>
14:30 – 14:45	Speaker 3-3 “Smart operation and maintenance for irrigation system management” <i>Dr. Kasem Pinthong, Thai Hydrologist Association, Thailand</i>
14:45 – 15:00	Speaker 3-4 “Irrigation management in Vietnam and some solutions for water saving” <i>Dr. Dinh Thanh Mung, DWR, Vietnam</i>
15:00 – 15:15	Speaker 3-5 “Water supply in the Red River delta during the high-demand period of Winter-Spring season”

	<i>Dr. Le Viet Son, IWRP, Vietnam</i>
15:15 – 15:30	Speaker 3-6 “The possibility of flood control measure using paddy fields” <i>Assoc.Prof. Natsuki Yoshikawa, Niigata University, Japan</i>
15:30 – 15:50	Q&A for Session 3
15:50 – 16:00	Tea Break
Group Discussion and Wrap-up Session on Potential Future Collaboration under the e-ASIA JRP <i>Chair: Dr. Haruo Takeda</i> < Objectives > <ul style="list-style-type: none"> · Discuss hot topics of “Intelligent Infrastructure for Water” leading to sustainable future development in Asian countries. · Explore potential future collaboration opportunities for the next e-ASIA JRP call for proposals on “Advanced Interdisciplinary Research towards Innovation” in 2019-2020. 	
16:00 – 16:30	Group Discussion on future collaboration opportunities in the e-ASIA JRP <i>All participants to be divided into 3 session groups for the discussion. Each session chairs to lead the discussion and to prepare short presentation for Wrap-up.</i>
16:30 – 17:00	Wrap-up Presentation and Floor Q&A <i>Each session chair to present a short summary of the group discussion.</i>
17:00 – 17:20	Action Plan for Future e-ASIA Call for Proposals <i>Yoshihide Kobayashi, Special Program Coordinator, e-ASIA JRP Program Secretariat</i>
Closing Session <i>MC: Ms. Do Thuy Ha</i>	
17:20 – 17:25	Closing Remarks <i>Mr. Osamu Kobayashi, Director, International Affairs, JST</i>
17:25 – 17:30	Closing Remarks <i>Assoc. Prof. Le Thi Kim Cuc, DWR</i>
End of the Workshop	

Networking Dinner@ Authentic Hanoi Hotel	
18:00 – 20:00	<ul style="list-style-type: none"> · Opening Remarks · Toast · Closing Remarks * Buffet Dinner being planned.

February 22nd (Friday)

Field Visit (optional)	
7:00 – 12:00	Bac Hung Hai irrigation and drainage system (Operating House, Cau Xe sluice and automatical water measuring system).