

CREST Symposium associated with 10th SEAWA in Hanoi
Development of Well-Balanced Urban Water Use System Adapted to Climate Change
-Toward Sustainable Water Use-

Organizer Prof. Hiroaki Furumai (The Univ. of Tokyo)

Supported by Japan Science and Technology Agency “Core Research for Evolutional Science and Technology (CREST) – Innovative Technology and System for Sustainable Water Use-”

The CREST Project on “Development of well-balanced urban water use system adapted to climate change (Project Leader: Prof. H. Furumai)” aims to reexamine the current urban water use system and propose a new one adaptive to the future climate change. In the new system, each water resource is properly allocated to each water use by considering the balance between water supply and demand. This requires information on available amounts and detailed quality of various water resources. Two river watersheds; Ara River in Japan and Hon River in Vietnam, are selected as research fields. They are located both in Asian monsoon area but are on different phases in economic and demographic growths. We are pursuing urban water use strategies suitable for each watershed from various angles. In this special symposium associated with 10th International Symposium on Southeast Asian Water Environment, we would like to introduce our research activity in Vietnam and discuss with water professionals including government officials, policy makers, researchers, engineers from private sector in Vietnam as well as other Southeast Asian countries.

This symposium is divided into two sessions. In the morning session, the general overview of the CREST project including outstanding outcomes will be introduced with simultaneous translation. In the afternoon session, the more research-oriented presentations on specific topics will be given only in English. We hope to share our perspectives and consider the sustainable water use in Hanoi through multilateral discussion.

■ **Date**

November 7 (Wed)

■ **Time**

09:00-12:00 Morning session (Ball room)

12:00-13:30 Lunch

13:30-17:00 Afternoon session (Room *)

■ **Venue**

Hilton Hanoi Opera Hotel

Address: 1 Le Thanh Tong Street Hoan Kiem District Hanoi, 10000

Tel: +84 (0) 4 39330 500

■ **Registration fee**

Free

■ **Registration**

Please send e-mail (k_kuroda@env.t.u-tokyo.ac.jp) including the following information to register CREST symposium. (a) Name, (b) Affiliation, (c) Job Title/Position, (d) E-mail, (e) Session(s) where you want to participate (1) Only morning session, (2) Only afternoon session, (3) Both sessions.

■ **Contact**

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Morning Session (09:00-12:00)

–Overview of CREST Project–

- Room
 - Ball room
- Language
 - Simultaneous translation (English-Vietnamese) is available.
- Participants
 - Open to public
- Schedule
 - 09:00-09:10 Opening Remark: Prof. Hiroaki Furumai (The Univ. of Tokyo)
 - 09:10-09:40 Keynote lecture: Prof. Hiroaki Furumai (The Univ. of Tokyo)
 - “Climate change and water use management based on CREST project outcomes”
 - 09:40-10:10 Keynote lecture: Prof. Tran Duc Ha (Hanoi Univ. of Civil Engineering)
 - “Urban water resource management with future vision in Hanoi”

 - 10:10-10:30 Coffee break

 - Introduction of Hanoi-related research outcomes-
 - 10:30-10:45 Water Resource Group: Dr. Hiroshi Ishidaira/Dr. Jun Magome (Yamanashi Univ.)
 - “Downscaling of global climate predictions into local scale water resources information”
 - 10:45-11:00 Water Quality Assessment Group: Dr. Hiroyuki Katayama (The Univ. of Tokyo)
 - “Microbial water safety with novel virus indicators”
 - 11:00-11:15 Groundwater Group: Prof. Satoshi Takizawa (The Univ. of Tokyo)
 - “Urban development and the role of groundwater management in Hanoi”
 - 11:15-11:30 Groundwater Group: Dr. Vu Thanh Tam (Center of Water Resources Planning and Investigation)
 - “Is the Hanoi groundwater over-exploited or inappropriately abstracted?”
 - 11:30-11:45 Water Use Design Group: Prof. Toshiya Aramaki (Toyo Univ.)
 - “Survey on household water use for its design in rapidly developing areas of the Hanoi City”
 - 11:45-12:00 Closing of morning session and introduction of afternoon session
Prof. Hiroaki Furumai (The Univ. of Tokyo)

 - 12:00-13:30 Networking lunch

Afternoon Session (13:30-17:00)

-Research outcomes in Vietnam project-

- Room
Hoi An Room
- Language
English
- Participants
Semi-closed, CREST project members and counterparts
- Schedule
13:30-13:40 Opening remark: Prof. Hiroaki Furumai (The Univ. of Tokyo)

-Research presentation-

- 13:40-14:00 Water Resource Group: Dr. Kazuhiro Kakizawa/Dr. Jun MAGOME
“Modeling of sediment production and transport processes in Red river basin”
- 14:00-14:20 Water Quality Group: Dr. Manami Inaba (The Univ. of Tokyo)
“Detection of genus Kobuvirus as microbial source tracking indicators in Hanoi, Vietnam”
- 14:20-14:40 Rainwater Group: Prof. Hiroaki Furumai (The Univ. of Tokyo)
“Significance of roof and road runoff utilization with appropriate water quality management”
- 14:40-15:00 Groundwater Group: Dr. Takeshi Hayashi (Akita Univ.)
“Fluctuation of the groundwater table and the water levels of the surrounding ponds in Hanoi City”
- 15:00-15:20 Groundwater Group: Dr. Keisuke Kuroda (The Univ. of Tokyo)
Groundwater pollution by arsenic in Hanoi, Vietnam: Influence of pond infiltrates on ambient groundwater
- 15:20-15:35 Coffee break
- 15:35-15:55 Water Use Design Group: Dr. Pham Ngoc Bao (Toyo Univ.)
“Micro-components survey of residential water use in Hanoi”
- 15:55-16:15 Water Use Design Group: Ms. Duong Quynh Nga (Hanoi Univ. of Civil Engineering)
“Towards the proposal on the better appropriate use of water at community scale based on the current water consumption and the character of the community”
- 16:15-17:00 Overall discussion: Towards Sustainable Water Use in Hanoi
- How to compile various research outputs?
 - How to implement idea/technology/system/policy in Hanoi society?
 - How to transfer experiences in Japan to Vietnam (Hanoi)?
 - What is critical for developing well-balanced/sustainable urban water use system?
 - How to design well-balanced urban water use system considering locality?
 - Agenda towards sustainable water use in Hanoi?
- 17:00 Closing remark: Prof. Hiroaki Furumai (The Univ. of Tokyo)