

International Conference on CCAW 2017

- **Date/Venue** Dec. 21(Thu)-23(Sat) / Maison Glad JEJU (Crystal Hall on 2nd Floor)
- **Host** Korea Agency for Infrastructure Technology Advancement (KAIA)
- **Organizer** CCAW / K-water

PROGRAM (Thursday, 21 December 2017, DAY 1)

TIME	PRESENTER / EVENT
09:30 – 10:00	REGISTRATION
10:00 – 10:10	Welcome Address <i>Led by BAE, Deg-Hyo, Prof., Sejong University, Korea</i>
10:10 – 10:20	Introduction of Attendees <i>Moderated by KIM, Tae-Woong, Prof., Hanyang University, Korea</i>
CCAW International Conference (Session I) <i>Moderated by KIM, Tae-Woong, Prof., Hanyang University, Korea</i>	
10:20 – 10:50	Scientific & Technical Issues on Climate Change Adaptation of Korean Water Resources <i>BAE, Deg-Hyo, Prof., Sejong University, Korea</i>
10:50 – 11:20	Integrated Research Program for Advancing Climate Models (Tougou Program) <i>NAKAKITA, Eiichi, Prof., Kyoto University, Japan</i>
11:20 – 11:45	The Importance of Bias Correction for Impact Assessments of Water-related Disasters <i>WATANABE, Satoshi, Prof., Tokyo University, Japan</i>
11:45 – 12:10	Downscaling and Seamless Climate Service for Adaptation against Climate Change <i>CHO, Jae Pil, Team Leader, APEC Climate Center, Korea</i>
12:10 – 12:35	A Stochastic Extreme Downscaling Model for an Assessment of Changes in Rainfall IDF Curves over South Korea <i>KWON, Hyun-Han, Prof., Chonbuk National University, Korea</i>
12:35 – 14:00	LUNCH
14:00 – 14:25	Assessment of Climate Change Impact on a Flood Risk Curve using d4PDF: a Case Study in the Yodo River Basin <i>TANAKA, Tomohiro, Prof., Kyoto University, Japan</i>
14:25 – 14:50	Estimation of Design Floods using Climate Change Scenarios in Han River Basin, South Korea <i>JEONG, Chang Sam, Prof., Induk University, Korea</i>
14:50 – 15:15	Assessing the Impact of Climate Change on Water Resources in Japan <i>TANAKA, Kenji, Prof., Kyoto University, Japan</i>
15:15 – 15:40	Climate Change Impacts and Adaptation in Water Supply and Water Use: A Case Study of Nakdong River Basin in South Korea <i>LEE, Dong-Ryul, Senior Research Fellow; CHOI, Si-Jung, Senior Researcher, KICT, Korea</i>
15:40 – 15:50	COFFEE BREAK
15:50 – 16:50	Panel & Open Discussion
16:50 – 17:10	COFFEE BREAK
CCAW International Conference (Session II) <i>Moderated by LEE, Dong-Ryul, Senior Research Fellow, KICT, Korea</i>	
17:10 – 18:00	Plenary Speaker: Dr. David Purkey (SEI-US) Recognizing Uncertainty while Creating Certainty within Water Plans: Examples from California and Beyond
18:00 – 20:00	WELCOME DINNER

PROGRAM (Friday, 22 December 2017, DAY 2)

TIME	PRESENTER / EVENT
08:00 – 08:30	REGISTRATION
08:30 – 08:40	Welcome Address <i>Led by BAE, Deg-Hyo, Prof., Sejong University, Korea</i>
08:40 – 08:50	Introduction of Attendees <i>Moderated by KANG, Doo Sun, Prof., Kyung Hee University, Korea</i>
08:50 – 09:00	GROUP PHOTO
CCAW International Conference (Session III) <i>Moderated by KANG, Doo Sun, Prof., Kyung Hee University, Korea</i>	
09:00 – 09:50	Special Lecturer: Prof. Eun-Soon IM (Hong Kong University of Science and Technology) An Introduction to Climate Modeling and Its Application for Hydrological Impact Studies
09:50 – 10:15	Estimation of Maximum Precipitation using WRF <i>Lee, Jeong Hoon, Research Prof., Pukyong National University, Korea</i>
10:15 – 10:40	Does Green Infrastructure Influence Hydrologic Cycle under Climate Change Projections? <i>KIM, Hyeon Jun, Senior Research Fellow; JANG, Cheol Hee, Senior Researcher, KICT, Korea</i>
10:40 – 10:50	COFFEE BREAK
10:50 – 11:15	Projection of Future Drought Hazard Area under Non-Stationary Condition over South Korea <i>LEE, Joo-Heon, Prof., Joongbu University; KIM, Tae-Woong, Prof., Hanyang University, Korea</i>
11:15 – 11:40	Evaluation of the Impact of Extreme Droughts in North Korea based on the RCP 8.5 Climate Change Scenario using the SPEI <i>KIM, Byung Sik, Prof., Kangwon National University, Korea</i>
11:40 – 12:05	On the Decoupling of Hydrological Cycles in North & South Korea Since 1990 <i>YOO, Chul Sang, Prof., Korea University, Korea</i>
12:05 – 13:50	LUNCH & Poster Session
CCAW International Conference (Session IV) <i>Moderated by Kim, Gwang Seob, Prof., Kyungpook National University, Korea</i>	
13:50 – 14:40	Plenary Speaker: Prof. Q J Wang (University of Melbourne) Advances in Ensemble Hydrological Forecasting with Lead Times from Hours to Seasons
14:40 – 15:05	A Climate Change Assessment Tool for Sustainable Watershed Health and Building Resilience <i>KIM, Seong Joon, Prof., Konkuk University, Korea</i>
15:05 – 15:30	A Transdisciplinary Approach to Assessing the Vulnerability of Urban Floods to Climate Change <i>CHANG, Hee Jun, Prof., Portland State University, USA</i>
15:30 – 15:55	Mega Flood Runoff Analysis and Emergency Action Plan <i>KIM, Hung Soo, Prof., Inha University, Korea</i>
15:55 – 16:10	COFFEE BREAK
16:10 – 16:35	Decision Making for Climate Change Adaptation : Theory with Uncertainty, Action with Stakeholders <i>KIM, Young-Oh, Prof., Seoul National University, Korea</i>
16:35 – 17:00	Using Reservoir Reserve Storage Considering Climate Change <i>YI, Jae Eung, Prof., Ajou University, Korea</i>
17:00 – 17:25	Hydro-environmental Projection under RCP Scenarios in the Nakdong-river Basin <i>KANG, Boo Sik, Prof., Dankook University, Korea</i>
17:25 – 18:00	Discussion & Closing
18:00 – 20:00	FAREWELL DINNER

PROGRAM(Thursday, 21 - Friday, 22 December 2017, DAY 1-2)

CCAW International Conference (Poster Session)

Development and Application of Flood Vulnerability Index for River Levee

LEE, Jae Joon, Prof.; LEE, Hoo Sang; LEE, Sung Ho, Researcher, Kumoh National Institute of Technology, Korea

Development of an Execution Framework for Rehabilitation of Dam to Climate Change Adaption

MOON, Young-Il, Prof., University of Seoul, Korea

A Study on the Assessment of Hydrological Safety using Climate Change Scenario for Existing Dams in Korea.

KWON, Ji Hye, Deputy General Manager; PARK, Ji Yeon, Researcher, KISTEC (Korea Infrastructure Safety Corporation), Korea

Flood Risk Assesment and Countermeasure Plan according to RCP Scenarios in Korea

KIM, Gwang Seob, Prof.; KIM, Myo Jeung, Researcher, Kyungpook National University, Korea

Development of Reservoir Operation Rules for Drought Risk Management of Multi-purpose Dams in Korea

PARK, Jin Hyeog, Ph. D., K-water Convergence Institute; LEE, Sang Ho, Prof., Pukyong National University; KIM, Tae-Woong, Prof., Hanyang University, Korea

Application of Dynamically Dimensioned Search Method to Determine Supplementary Water Releases from Dams to Alleviate Downstream Water Deficiencies

LEE, Sang Ho, Prof.; JIN, Young Kyu; KIM, Kwang Hun, Researcher, Pukyong National University, Korea

Drought Response and Management Policies and Practices in South Korea

KIM, Tae-Woong, Prof., Hanyang University, Korea

Water Resources Vulnerability in the Han River basin with the Future Climate and Socioeconomic Changes Scenarios

KIM, Yeon Joo, Prof.; KIM, Heey Jin; PARK, Hye Sun; LEE, Jae Hyeong, Researcher, Yonsei University; KIM, Seong Joon, Prof.; LEE, Ji Wan, Researcher, Konkuk University, Korea

Analysis of Relation between Land Use and Ecological Indices

PARK, Dae Ryong, Prof.; NOH, Seo Young; YU, Yeon Bi; YANG, Seong Heon; JO, Da Min; YOO, Ji Hyeon; KIM, Bum Soo; EOM, Do Hee, Researchers, Konkuk University, Korea

WAMIS-CC (Water resources Management Information System - Climate Change) Introduction (Climate Change Adaptation for Water Resources Integrated Evaluation System)

LIM, Seong Man, President, Burin, Korea

Bayesian Uncertainty Decomposition in Climate Change Impact Assessments

KIM, Yong Dai, Prof.; OHN, Il Sang, Researcher; KIM, Young Oh, Prof., Seoul National University; LEE, Jae Kyoung, Prof., Daejin University, Korea

Evaluation system of Water Sector

:Focusing on Chungcheongman-do's Climate Change Adaptation Strategies for Water Management

CHOI, Dong Jin, Director, SHIN, Eun Joo, Researcher, ICCA, Korea

Analysis of Riverbed Changes for Climate Change in Nakdong River

KIM, Young Do, Prof.; LEE, Jong Mun, Ph. D., Inje University; KANG, Boo Sik, Prof., Dankook University; AHN, Jung Kyu, Prof., Incheon University, Korea

Application of Measured Channel Cross-section Geometries for Sediment Estimation using Modified SWAT

LIM, Kyoung Jae, Prof., Kangwon National University, Korea

Effects of Climate Change on the Turbidity Flow in a Large Dam Reservoir

CHUNG, Se Woong, Prof.; PARK, Hyung Seok, Researcher, Chungbuk National University, Korea

Improved Land Rainfall Retrieval Algorithm over South Korea using GCOM-W1/AMSR-2 Observations

KWON, Young-Joo, Researcher; HONG, Sung Wook, Prof., Sejong University, Korea

Flood Monitoring Technique based on Pseudo-color RGB Imagery using MODIS Observations

BAN, Hyun-Ju, Researcher; HONG, Sung Wook, Prof., Sejong University, Korea

Assessment of IMERG (Integrated Multisatellite Retrievals for GPM) over Korea and Southeast Asia against Ground Precipitation Observations

RYU, Su Min, Researcher; HONG, Sung Wook, Prof., Sejong University, Korea

An Evaluation of the Capacity for Water Resources Facilities in North Korea

AHN, Jae-Hyun, Prof., Seokyeong University, Korea

Establishment of Korean Analysis Framework for International Virtual Water Transfer

PARK, Sung Je, General Director, Future Resources Institute, Korea

A Study on the Development and Application of Index for Feasibility Review for Overseas Expansion of Water Resources Industry

JEONG, Dae Myoung; CHOI, Seong Yeul, Ph. D., Disaster Prevention Safety Institutes, Korea

Determinants of Industrial Water Resource Usage using Panel Data Analysis & Shadow Price of Industrial Water Resource Usage using Water Input-Output linear Programing

LEE, Hee-Chan, Prof.; OH, Hee Kyun, Prof., Sejong University, Korea

Water Industry Export Strategy Study

LEE, Deok Ro, Prof.; CHO, Sung Min, Prof., Sejong University, Korea

Water-Energy-Food Nexus: Resources Trade Simulation

WICAKSONO, Albert; JEONG, Gi Moon, Researcher; KANG, Doo Sun, Prof., Kyung Hee University, Korea

Technical Tour (Saturday, 23 December 2017, DAY 3)

TIME	Site Visit
08:50 – 09:00	Site Visit Overview
09:00 – 09:30	TRAVEL TO SITE VISIT
09:30 – 12:30	SITE VISIT CURCUIT <i>Source of the Surface Water → Sangumburi Crater → Ecological Park</i>
12:30 – 13:30	LUNCH
13:30 – 14:00	RETURN (SITE VISIT)