

## Technical Program

### THA 2017 International Conference Programme (tentative)

#### WEDNESDAY- 25 JANUARY 2017

TIME	WEDNESDAY- 25 JANUARY 2017	
08.00	Registration at Le Concorde Ballroom, 2 <sup>nd</sup> floor,Swissôtel Le Concorde	
	Venue: Le Concorde Ballroom,	Level 2
09.00	Report Speech:	<b>Prof. Dr. Bundhit Eua-arporn</b> President of Chulalongkorn University
09.10	Introduction Speech:	<b>Dr. Gwang-Jo Kim</b> Director, UNESCO Asia and Pacific Regional Bureau for Education (UNESCO Bangkok)
09.20	Congratulation Speech:	<b>Mr. Vongthep Arthakaivalvatee</b> Deputy Secretary-General of ASEAN Socio-Cultural Community Department ASEAN Secretariat
09.30	Opening Remarks:	<b>Prof. Emeritus Khunying Suchada Kiranandana</b> Chairman of the University Council
09.40	Group Photo Tour for Exhibitionon and Press conference	Green and Smart Technology for Water Management
10.10	<b>Coffee Break</b>	
10.30	<b>Keynote Speakers I</b> <b>The water-food-energy nexus: future challenges and opportunities in Asia</b>	<b>Ms. Louise Whiting</b> Regional Office for Asia and the Pacific Food and Agriculture Organization of the United Nations (FAO)
11.00	<b>Keynote Speakers II</b> <b>Water Planning Strategies under SDG and WEF Nexus(tentative)</b>	<b>Dr. Poramete Vimolsiri</b> Secretary General of Office of National Economic and Social Development Board, Thailand

11.30	<b>Keynote Speakers III</b> <b>Water management under climate change and WEF approach (tentative)</b> <b>Dr. Gwang- Jo Kim</b> Director, UNESCO Asia and Pacific Regional Bureau for Education UNESCO Bangkok			
12.00	<b>Lunch Break</b>			
<b>TIME</b>	<b>WEDNESDAY- 25 JANUARY 2017</b>			
<b>Scope</b>	<b>Plenary session presentation</b>	<b>Plenary session presentation</b>	<b>Plenary session presentation</b>	<b>ASEAN Forum</b>
Room	Venue: Salon A	Venue: Salon B	Venue: Krisana	Venue: Jamjuree
Chair				<b>ASEAN Forum for Executives</b> <b>Session 1: Planning presentation</b> Objectives: To present national water management status, to share strategies to deal with the issue of climate change and WEF Nexus and to propose research/training needs. <b>-Opening speech</b> <b>Mr. Saroj Srisai</b> Assistant Director/ Head of Environment Division, Sustainable Development Directorate, ASEAN Socio-Cultural Community Department <b>Speaker: On water management under climate change and nexus approach(15 minutes each)</b> - Royal Irrigation Department, Thailand - Department of Meteorology and Hydrology, Ministry of Transportation, Myanmar - Department of Irrigation Ministry of Agriculture and Forestry of Laos - Department of Meteorology, Hydrology and Climate Change, Vietnam
Briefing				
13.00	<b>Invited paper A:</b> <b>Projected changes in mean precipitation, temperature and extremes over Southeast Asia region based on the multi-model simulations of SEACLID/CORDEX Southeast Asia</b> <b>Prof. Fredolin Tangang, PhD,</b> School of Environmental and Natural Resource Sciences, Malaysia	<b>Invited paper C:</b> <b>Water-Energy-Food Nexus: the roadmap in Korea</b> <b>Dr. Byung Man Choi</b> Project manager of Water-Energy-Food Nexus in Korea Former Head of K-water Institute, Korea	<b>Invited paper D:</b> <b>Japan's Rivers Policies and Technical Works for Disaster Risk Reduction under climate change</b> <b>Mr. Takafumi Nakui,</b> International Affairs Office, River Planning Division, Water and Disaster Management Bureau, Ministry of Land, Infrastructure, Transport and Tourism(MLIT), Japan	
13.30	<b>Paper TA026:</b> <b>Assessment of Water Resources During the 21st Century in Northern Thailand with Focus on Ping River Basin</b> Miss. Srisunee Wuthiwongyothin ,Thailand	<b>Paper TB001 :</b> <b>Water-Food Nexus: Water Use Efficiency in Central Asia</b> Dr. Younghun Jung, K-water, Korea	<b>Paper TD020 :</b> <b>SWAT and MODFLOW Modeling of Spatio-Temporal Runoff and Groundwater Recharge Distribution</b> Dr. AKSARA Putthividhya, Chulalongkorn University, Thailand	
13.55	<b>Paper TB002 :</b> <b>Improving Crop Water Use with The use of Efficient Irrigation Technologies and</b>	<b>Paper TA017:</b> <b>Correlation Analysis Between Tsengwen-Wushantou Reservoirs Operation and Environmental</b>	<b>Paper TD001:</b> <b>Groundwater balance and river interaction analysis in Pleistocene aquifer of the</b>	

	<b>Coconut Mulch Husk: A study on long-bean production.</b> Mr. Iep., National University of Lao,Lao	<b>Factors</b> Yi-Lung YehSheng, National Pingtung University of Science and Technology, Taiwan	<b>Saigon River basin, South of Vietnam by stable isotope analysis and groundwater modeling</b> Mr. Tran Thanh Long, Chulalongkorn University, Thailand	
<b>Scope</b>	<b>Plenary session presentation</b>	<b>Plenary session presentation</b>	<b>Plenary session presentation</b>	
<b>Room</b>	<b>Venue: Salon A</b>	<b>Venue: Salon B</b>	<b>Venue: Krisana</b>	<b>Venue: Jamjuree</b>
14.20	<b>Paper TD025:</b> <b>Evaluation of Near-Real-Time Satellite-based Rainfalls over Thailand</b> Mr. Teerawat Ram-Indra, Chulalongkorn University, Thailand	<b>Paper TC016:</b> <b>The Roles of virtual water for assessing the impacts of food security and global food trade on Water-Energy-Food Nexus</b> Dr. Sang-Hyun Lee, Texas A&M, USA	<b>Paper TD003:</b> <b>Estimation of Hydrological Parameter Distribution by Geostatistical methods in the Upper Central Plain, Thailand</b> Ms.Pwint Phyu Aye, Chulalongkorn University, Thailand	<b>ASEAN Forum for Executives</b> <b>Speaker: On water management under climate change and nexus approach (Cont.)</b> - Technical Affairs of Ministry of Water Resources and Meteorology of Cambodia
14.45	<b>Coffee Break (15 Minute)</b>			
15.00	<b>Paper TA016:</b> <b>Development of Design Storm Pattern with Climate Change in Monsoon Asia</b> Dr. Sutat Weesakul, Hydro and Agro Informatics Institute, Thailand	<b>Paper TC001:</b> <b>Achieving Sustainable Resource Security through the Water-Energy-Food Nexus</b> Dr. Eul Rae Lee, K-water ,Korea	<b>Paper TD021 :</b> <b>Groundwater Vulnerability and Risk Assessment in Thailand using GIS-Based Modified DRASTIC Approach</b> Dr. AKSARA Putthividhya, Chulalongkorn University, Thailand	<b>ASEAN Forum for Executives</b> <b>Speaker: On water management under climate change and nexus approach (Cont.)</b> - Department of Water Resources, Thailand - Deputy Chairman of Earth Sciences of Indonesian Institute of Sciences/ Chairman of Indonesia National Committee of UNESCO-IHP, Indonesia - Philippines - Academy Science of Malaysia (ASM), Malaysia - Department of Groundwater Resources, Thailand
15.25	<b>Paper TA002:</b> <b>Probabilistic Flood Forecasting using Ensemble Numerical Weather Prediction rainfalls during the 2011 Largest Flood Event in Japan</b> Dr. Wansik YU, Chungnam National University, Korea	<b>Paper TC007:</b> <b>Water Energy Carbon Nexus in Urban Water Supply System of Kathmandu Valley</b> Mimansha Joshi, AIT, Nepal	<b>Paper TD005 :</b> <b>Flow budget of groundwater systemand conjunctive use pattern under climate change in Upper Central Plain, Thailand</b> Mr. Chokchai Suthidhummajit, Chulalongkorn University, Thailand	
15.50	<b>Paper TA004 :</b> <b>Determination of Extreme Design Waves under Climate</b>	<b>Paper TA018:</b> <b>Spatial heterogeneity and trans-boundary pollution: A case study</b>	<b>Paper TD010:</b> <b>An Assessment of Saltwater Intrusion in Cebu City Aquifers</b>	

		<b>Change in the Gulf of Thailand</b> Nguyen ThiHien, Thailand	<b>on the 3S River Basin</b> Mr. Manish Shrestha, AIT, Thailand	Mr. Nelson Stephen L. Ventura, De La Salle University, Philippines	
<b>Scope</b>		<b>Plenary session presentation</b>	<b>Plenary session presentation</b>	<b>Plenary session presentation</b>	
<b>Room</b>		Venue: Salon A	Venue: Salon B	Venue: Krisana	Venue: Jamjuree
16.15		<b>Paper TD024:</b> <b>Land Cover/Use Scenario Building and its Impact on Flooding inside the Iligan River Basin</b> Mr. ALAN MILANO, MSU- Iligan, Institute of Technology, PhilippinesPaper	<b>Paper TC013:</b> <b>Developing food-energy-water (FEW) nexus indicators with DPSIR framework: Experience from Taiwan</b> Shang-Lien Lo, National Taiwan University,Taiwan	<b>Paper TD026 :</b> <b>Input-Output Analysis of Water Deficits in Nan River Basin, Thailand</b> Mr.PavisornChuenchum Chulalongkorn University, Thailand	
<b>18.00</b>		<b>Reception Dinner (For registration participant) Venue: Le Lotus 1</b>			

THURSDAY- 26 JANUARY 2017

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Scope	Plenary session presentation	Plenary session presentation	Plenary session presentation	ASEAN Forum
Room	Venue: Salon A	Venue: Salon B	Venue: Krisana	Venue: Jamjuree
Chair				
Briefing				
09.00	<b>Invited paper C:</b> <b>Smart Urban Water systems – in practice</b> <b>Mr. Sten Lindberg,</b> DHI, Denmark	<b>Invited paper B:</b> <b>Principles and Methods for PIM in Action -Is the Japan’s model exceptional?</b> <b>Dr. Masayoshi Satoh</b> Prof. Emeritus, University of Tsukuba	<b>Invited paper D:</b> <b>Extreme flood frequency analysis and risk curve development under a changing climate</b> <b>Prof. Dr. Yasuto Tachikawa,</b> Kyoto University, Japan	<p style="text-align: center;"><b>ASEAN Forum for Academics</b></p> <p><b>Session 2: Academic presentation</b>                      Objective: To update research status and results on water management under climate change environment and future research/training plan                      Speakers from ASEAN countries (15 minutes)</p> <ul style="list-style-type: none"> <li>- <b>Dr. Sarann Ly</b>                          Head Department of Rural Engineering, Institut de Technologie du Cambodge (ITC), Cambodia</li> <li>- <b>Assoc.Prof. Dr. Huynh Thi Lan Huong</b>                          Deputy Director General of IMHEN Vitenam</li> <li>- <b>IrMohdZaki Mat Amin</b>                          Director of Research Centre for Water Resources, National Hydraulic Research Institute of Malaysia (NAHRIM)</li> <li>- <b>Dr. WintWintHtun</b>                          Department of Geology Patheingyi University, Myanmar</li> <li>- <b>Dr. Khin Kay Khaing</b>                          Department of Geography University of Yangon, Myanmar</li> <li>- <b>Mr. Saykham Sithavong</b>                          Deputy Head of Irrigation Department Faculty of Water Resource, NUOL</li> <li>- <b>Dr. Piyatida Ruangrassamee</b>                          Department of Water Resources engineering, Faculty of Engineering, Chulalongkorn University, Thailand</li> </ul>
09.30	<b>Paper TC008 :</b> <b>Satellite based sub-daily downscaling of daily gauged rainfall for flood analysis via fully distributed hydrological model</b> Mr. Pallav Kumar Shrestha, AIT, Nepal	<b>Paper TB004:</b> <b>Participatory Water Management in the Specific Locale of Sub-watershed: Negotiation Process and Institutionalization.</b> Mr. Man Purotaganon, Thai Water Partnership, Thailand	<b>Invited Paper D:</b> <b>Assessment of the impacts of groundwater abstraction and climate change on groundwater resources in Mekong Delta, Viet Nam</b> <b>Mr. Nguyen Tien Tung,</b> Division of Water Resources Planning and Investigation for the South of Vietnam, Vietnam.	
09.55	<b>Paper TC003:</b> <b>Characteristics of CH4 flux from paddy field adopting the intermitted irrigation technique During the winter-spring and summer-autumn seasons in the Red River Delta, Vietnam</b> Mr. Fumiya Inagaki, Kyoto University, Japan	<b>Paper TB005:</b> <b>Water Quality Profiles And The Reservoir Utilization With Special References To Jatiluhur, Cirata And Saguling Reservoirs</b> Dr. Luki Subehi, Indonesian Institute of Sciences (LIPI), Indonesia	<b>Paper TD009:</b> <b>Assessment of rainfall-runoff models for streamflow and flood predictions in the Nam Song River Basin</b> Mr. Bounhome Kimmany Chulalongkorn University Thailand	

Scope		Plenary session presentation	Plenary session presentation	Plenary session presentation		
Room		Venue: Salon A	Venue: Salon B	Venue: Krisana		
10.20	Exhibition	<b>Paper TC009:</b> <b>A Case Study on Industrial Mismanagement of Tanneries in Hazaribagh: Water Pollution and Chromium Poisoning in Dhaka, Bangladesh</b> Mrs. Nilay Kumar Sarker, AIT,Thailand	<b>Paper TB006:</b> <b>Proposal of a reservoir management method based on the observed accumulated areal mean rainfall for the Sirikit reservoir in the Chao Phraya River basin, Thailand</b> Dr. Kentaro Dotani, Toyama Prefectural University, Japan	<b>The Possibility of Using Solute Age to Evaluate the Effectiveness of Riverbank Filtration (RBF)</b> (Dr. Warangkana Larbkich, SystemPlan and Policy Analyst, Practioner Level )		
10.45		<b>Coffee Break (15 Minute)</b>				
11.00		<b>Paper TA022:</b> <b>Stochastic Simulation and Frequency Analysis of the Concurrent Occurrences of Multisite Extreme Rainfalls</b> Prof. Ke-Sheng Cheng, National Taiwan University, Taiwan	<b>Paper TA005:</b> <b>Analysis of Farmers' Choice of Adaptations to Climate Change at NongSua District,Rangsit Canal, Thailand</b> Dr. Sutat Weesakul, Hydro and Agro Informatics Institute,Thailand	Ground Water under Changing Word	<b>Simulation and optimization methodologies to estimate groundwater sustainable yield in the Central Chi River Basin, Northeast Thailand</b> (Dr. Tussanee Nettasana, Geologist, Senior Professional Level)	<b>ASEAN Forum for Academics</b> <b>Session 2: Academic presentation(Cont.)</b> <b>- Dr. Fauzan Ali</b> Director of Research Centre for Limnology/Secretary of Indonesian National Committee of UNESCO-IHP <b>- Prof. Alan E. Milano</b> Civil Engineering Department MSU-Iligan Institute of Technology Philippines <b>- Dr.Pongsak Suttinon</b> Department of Water Resources Engineering, Faculty of Engineering, Chulalongkorn University, Thailand
11.25		<b>Paper TA011:</b> <b>Assessment of Satellite Rainfall Estimates as a Pre-Analysis for Water Environment Analytical Tools: A Case Study for Tonle Sap Lake in Cambodia</b> Arun. Chan. Phoeurn,Institute of Technology of Cambodia,	<b>Paper TC014:</b> <b>Effect of water management on growth of malabar chestnut</b> Dr.Yung-Liang Peng,National Taiwan University, Taiwan		<b>Roles of Groundwater in the FED Triangle Water Resources Management Model in Thailand.</b> (Mr. Chaiporn Siripornpibul, Former Inspector of Ministry of Natural Resources and Environment)	
11.50	<b>Paper TD012:</b> <b>Flood Risk Maps and Its Applications</b> Prof. Ming Daw SU, National Taiwan University, Taiwan	<b>Paper TD006 :</b> <b>Flood Modelling in Lower Mekong River in Cambodia</b> Dr. Sarann Ly, Institute of Technology of Cambodia, Combodia.	<b>Assessing and Characterizing the Efficacy of the Constructed Wetland for Treating Pollutants in Landfill Leachate</b> (Miss Chadaporn Busarakum, Geologist)			
12.00	<b>Lunch Break</b>					

Scope	Plenary session presentation	Plenary session presentation	Plenary session presentation	Technical training	ASEAN Forum	
Room	Venue: Salon A	Venue: Salon B	Venue: Krisana	Venue: Jamjuree	Venue: Sakthong	
Chair				<b>Technical training by University of California - Irvine with UNESCO's International Hydrological Programme (IHP)</b> Coordinated by Dr. Piyatida Hoisungwan Faculty of Engineering, Chulalongkorn University	<b>Session 3: ASEAN Roundtable</b> Objective: To present existing collaborative activities and discuss future collaborative activities/proposals on research/education - Kyoto University Japan - National Taiwan University Taiwan - International Water Resources Research Institute Korea - DHI - Center for Hydrometeorology and Remote Sensing, University of California - Irvine UC Irvine - Thailand Research Fund	
Briefing						
13.00	<b>Paper TA023:</b> <b>Climate Extremes, People's Perception and Adaptation in Lower Songkhram River Basin, Thailand,</b> Miss. Pisinee Bariboon, AIT,Thailand	<b>Paper TD023 :</b> <b>Impact of decreasing percentage of imperviousness area with flooding in urban area at Sukhumvit, Bangkok, Thailand.</b> Mr. Detchphol Chitwatkulsir, Valaya Alongkorn Rajabhat University under the Royal Patronage,Thailand	<b>Ground Water under Changing Word</b>			<b>Application of the Precipitation-Runoff Modeling System (PRMS) to the Investigation of the Effects of Land-use Changes on the Runoff Coefficient in the Prachinburi River Basin, Thailand</b> (Dr. Phatcharasak Arlai)
13.25	<b>Paper TC010:</b> <b>Quantifying climate change impact on rice production in Northeast of Thailand: a critical review through water footprint concept</b> Miss. Ranju Chapagain, AIT,Thailand	<b>Paper TA006 :</b> <b>Change of the Probability Distribution of Annual Maximum River Discharges derived from the d4PDF datasets at the Indochinese Peninsula</b> Mr. Patinya Hanittinan, Kyoto University , Japan				<b>Hydrological Assessment Using Stable Isotope Fingerprinting Technique In The Upper Chao Phraya River Basin</b> (Asst.Prof.Dr. Aksara Putthividhya)
13.50	<b>Paper TA003:</b> <b>River Discharge and Reservoir Operation Assessment under a Changing Climate at the Sirikit Reservoir</b> Mr. Donpapob Manee, Kyoto University, Japan	<b>Paper TA014:</b> <b>Climate change and landslide risk assessment in Uttaradit Province</b> Miss Shotiros Protong, Department of Water Resources, Thailand				<b>The Study on Groundwater Quality and Quantity Fluctuation near the Coastal Area Due To Climate Change, Thailand</b> (Dr. Praphawadee Otarawanna, Geologist, Professional Level)
14.15	<b>Paper TA009:</b> <b>Comparison of the spatial rainfall in Khun Dan Prakan Chon Reservoir by spatial interpolation techniques.</b> Mr. Peerapong Rattanaburi RID, Thailand	<b>Paper TD019:</b> <b>Iron oxide coated activated carbons for arsenate adsorption from groundwater</b> Miss. Manavanh MUONGPAK, Chulalongkorn University, Thailand		<b>Assessment of Climate Change on Groundwater Vulnerability to Drought of Areas in Eastern Thailand</b> (Ass.Prof.Dr. Uma Seeboonruang)		

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Room		Venue: Salon A	Venue: Salon B		Venue: Krisana	Venue: Jamjuree	Venue: Sakthong
14.40		<b>Paper TA008:</b> <b>Effect of Land Cover Change to Annual Sedimentation in Nan Basin, Thailand</b> Dr. Kwanchai Pakoksung, Kochi University of Technology, Japan	<b>Paper TD002:</b> <b>Estimation of river conductance values along Saigon River, Vietnam</b> Mr. Tuan Pham Van Chulalongkorn University, Thailand		<b>Impact of Climate and Land Use Changes on Surface Water and Groundwater Potential in Huai Saibat Watershed, NE, Thailand</b> (Dr. Phayom Saraphirom)		
15.05		<b>Coffee Break (15 Minute)</b>					
15.20	<b>Exhibition</b>	<b>Paper TA015:</b> <b>Assessment of an Urban Drainage System in Phnom Penh Using Storm Water Management Model</b> Mr. Sokchhay Heng, Institute of Technology of Cambodia, Cambodia	<b>Paper TD004:</b> <b>Mechanism of land subsidence due to groundwater production.</b> Mr. P., Phong prayoon, non-affiliated, Thailand		<b>Hydrogeochemical Features of Karst in the Western Thailand</b> (Mr. Mahippong Worakul, Geologist, Senior Professional Level)		<b>Session 3: ASEAN Roundtable (Cont.)</b> - Philippines - Indonesia - Lao PDR - Malaysia - Vietnam - Cambodia - Discussion on research/training/education of future research proposal
15.45		<b>Paper TA021:</b> <b>Change of water budget between 1960's and 2000's at the seasonal tropical forest in Northern Thailand</b> Dr. Katsushige Shiraki, Tokyo University of Agriculture and Technology, Japan	<b>Paper TD022:</b> <b>Potential Impact and Risk Assessments of Future Climate Conditions on Salinisation in Central Huai Luang River Basin, Northeast, Thailand</b> Miss. Kewaree Pholkern, Khon Kaen University, Thailand		<b>Developing Policy Recommendations for the Water, Energy, and Food Security of Thailand</b> (Assoc. Prof. Dr. Lampang Manmat)		
16.10		<b>Paper TD016:</b> <b>Analysis of Rainfall Induced Landslide Dam Geometries and Failures (Poster)</b> Prof. KWANSUE JUNG, Chungnam National University, South Korea, Korea	<b>Paper TD008:</b> <b>Drought Risk Assessment of Irrigation Project Areas in a River Basin</b> Prof. Tawatchai Tingsanchali, AIT, Thailand		<b>Saltwater Intrusion into Aquifers in Hat Yai Groundwater Basin (Case Study: Khuan Niang, Bangklam and Hat Yai District, Songkhla Province)</b> (Mrs. Dawruang Sukarawat, Geologist, Professional Level)		



Venue: Le Concorde Ballroom, Level 2	
16.35	Summary Plenary session presentation
16.45	Closing Remarks
18.00	Farewell Party Dinner (For registered participants) Venue: Le Lotus 1

(The programs are subject to change without notice.)

## **Guidelines for Speakers, Abstract Presenters, Session Chairs and Poster Exhibitors**

### **Guidelines for Speakers**

#### **Oral Presentation**

A total 20 minutes will be allocated to each oral presentation including 5 minutes discussion. Official language is English. All speakers are required to specify presentation accessory in the registration form (overhead-or LCD-projector).

#### **Poster Presentation**

The size of a Poster Board is 80 cm. (width) x 120 cm. (height). All necessary accessories will be available. Authors are required to mount their materials before 9.00 am on the day of their presentations. The materials can be removed after 6.00 pm. Authors are expected to be at their posters during the assigned session