

Workshop on “Mapping groundwater resilience to climate change and human development in Asian cities”

5 – 7 August, 2019
Asian Institute of Technology, Thailand



Program Schedule

Day 1: Monday, 5 August

Venue: Room B 206, AITCC

Opening Session		
8:30 – 9:00	Registration	
9:00 – 9:10	Workshop Objectives	Dr. Sangam Shrestha, AIT, Thailand
9:10-9:20	Welcome Remarks	Prof. Dieter Trau, Dean, School of Engineering and Technology, AIT, Thailand (tbc)
9:20-9:30	Briefing on Asia Pacific Network for Global Change Research (APN)	Dr. Jariya Boonjawat, Scientific Planning Group, APN, Thailand (tbc)
9:30-10:00	Key note speech: ‘Improving Groundwater Governance for Water Security’	Prof. Mukand S. Babel, Professor, AIT, Thailand (tbc)
10:00	Group Photo	
10:00-10:30 (Coffee/Tea Break)		
Technical Session -1: Sharing Groundwater Research on Climate and Land use Change Impact on Groundwater		
Chair: Dr. S. Mohana Sundaram		
10:30 – 11:00	Impact of Climate and Land Use Change on Groundwater Recharge and Managed Aquifer Recharge	Dr. Phayom Saraphiriom Groundwater Resources Institute (GWRI), Khon Kaen University
11:00 – 11:30	Impact of climate change on groundwater recharge of Thailand by using water balance method	Dr. Winai Chaowiwat Hydro-Informatics Institute (HII)
11:30 – 12:00	Mapping Groundwater Resiliency under Climate Change Scenarios in Kathmandu, Nepal	Mr. Sanjiv Neupane Water Engineering and Management, Asian Institute of Technology
12:00 – 12:30	tbd	Prof. Sucharit Koontanakulvong Chulalongkorn University (tbc)
12:30-14:00 (Lunch Break-AITCC)		

Technical Session -2: Groundwater Environment in Asian Cities Chair: Dr. Sangam Shrestha		
14:00 – 14:30	Groundwater Development and Management in the Changing Context in Bangkok, Thailand	Dr. Oranuj Lorphensri, Deputy Director-General, Department of Groundwater Resources, Thailand
14:30 – 15:00	Groundwater Development and Management in the Changing Context in Ho Chi Minh City, Vietnam	Dr. Bui Tran Vuong, Deputy Director General, Division for Water Resources Planning and Investigation, Vietnam
15:00 – 15:30	Groundwater Development and Management in the Changing Context in Kathmandu, Nepal	Dr. Rabin Malla, Executive Director, Center of Research for Environment and Water, Kathmandu, Nepal
15:30 – 16:00	Groundwater Development and Management in the Changing Context in Lahore, Pakistan	Engr. Muhammad Jawad, International Waterlogging and Salinity Research Institute, Lahore, Pakistan
16:00 – 17:00	Closing of Day-1 & Planning for Day-2	All
18:00	Welcome dinner (AITCC)	

Day 2: Tuesday, 6 August
Venue: Room B 206, AITCC

Session		
9:00 – 9:30	Summary of the 1 st day's sessions and objective of the 2 nd day's program	Dr. Sangam Shrestha, AIT, Thailand
Technical Session -3: Mapping Groundwater Resilience		
9:30 – 10:00	Project Introduction 'Mapping groundwater resilience to climate change and human development in Asian cities'	Dr. Sangam Shrestha, AIT, Thailand
10:00 – 10:30	Framework for Mapping Groundwater Resiliency to Climate change and Human Development	Dr. Sangam Shrestha, AIT, Thailand
10:30-11:00 (Coffee Break)		
11:00-12:00	Methodology for Climate Change Projection, Land use Change Projection, Hydrological Modeling and Groundwater Modeling	Mr. Sanjiv Neupane, AIT, Thailand
12:00-13:00	Methodology for Groundwater Resilience Indicators	Dr. S. Mohana Sundaram, AIT, Thailand
13:00-14:00 (Lunch Break- AITCC)		
Technical Session -3: Mapping Groundwater Resilience (Continue..)		
14:00 – 15:00	Discussion on Framework Mapping Groundwater Resiliency to Climate change and Human Development	All
15:00 – 16:00	Discussion on Methodology for Climate Change Projection, Land use Change Projection, Hydrological Modeling and Groundwater Modeling	All
16:00 – 17:00	Discussion on Data Requirement	All
17:00 – 17:30	Way Forward and Closing Remarks	Dr. Sangam Shrestha, AIT, Thailand
Dinner (Free time)		

Day 3: Wednesday, 7 August
Field Visit in Bangkok: Groundwater Monitoring and Management (tbd)

In consultation with Department of Groundwater Resources (DGR), Thailand, a field visit will be organized to learn about sustainable groundwater management. It consists of visiting DGR and learn about groundwater management in Bangkok and Thailand. Similarly, a visit will be organized to learn about groundwater monitoring, land subsidence monitoring in Bangkok.