

Commemoration of the World Water Day 2018

**Congratulation Remarks from
Dr. Sucharit Koontanakulvong
Chulalongkorn University**

**“Nature-based Solutions for Water and the SDG6
Synthesis in Thailand”**

**ASIA-PACIFIC FORUM ON
SUSTAINABLE DEVELOPMENT 2018**

“Transformation towards sustainable and resilient societies in Asia and the Pacific”

28-30 March 2018 | UNITED NATIONS CONFERENCE CENTRE, BANGKOK, THAILAND



United Nations
Educational, Scientific and
Cultural Organization



University Twinning
and Networking
Programme

UNESCO Chair on Water, Disaster Management and Climate Change

39th session
UNESCO General
Conference 2017

Chulalongkorn University

Thailand



Chair holder: Assoc. Prof. Dr. Sucharit Koontanakulvong

http://project-wre.eng.chula.ac.th/watercu_eng/

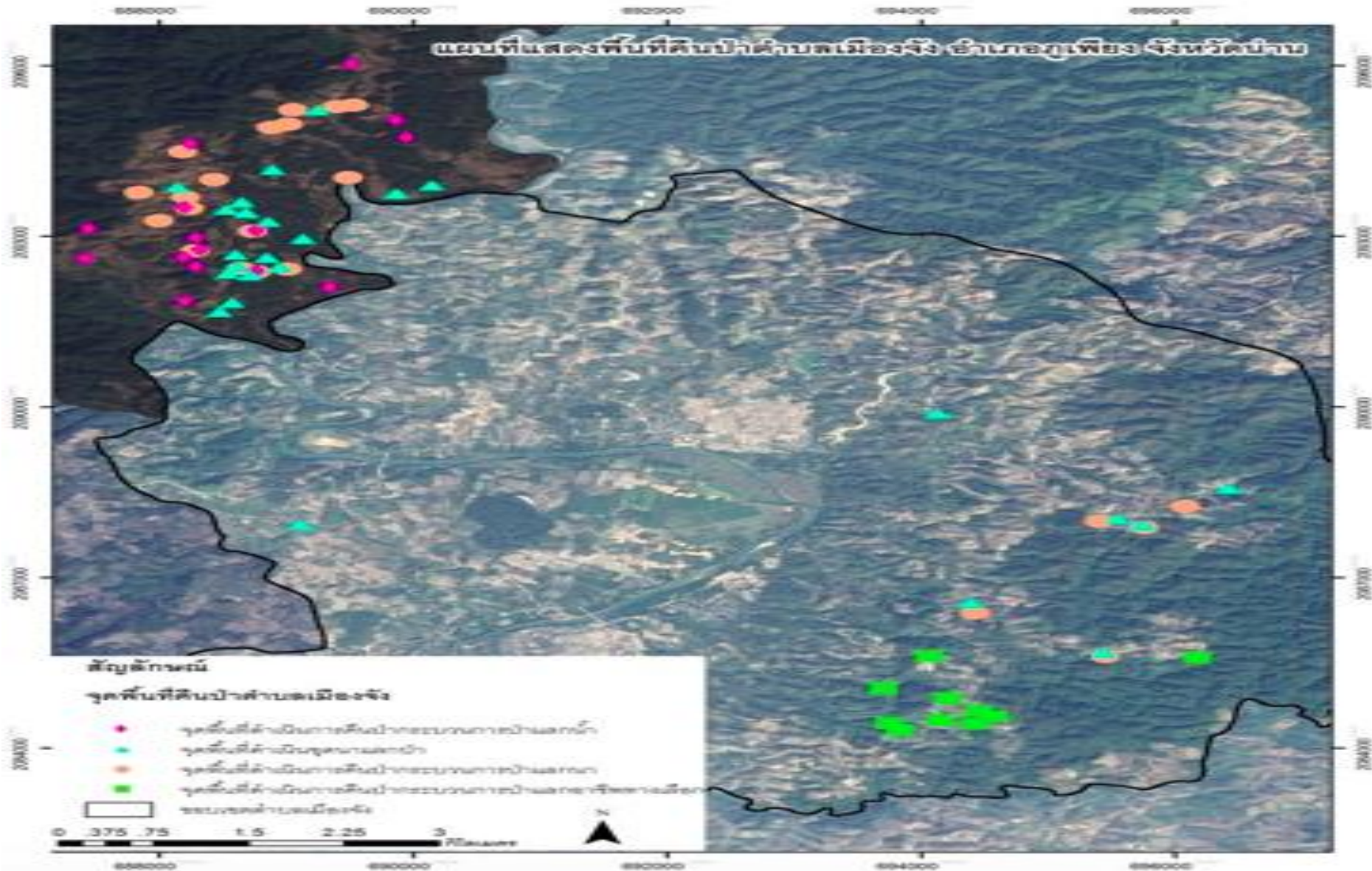
Contact: Sucharit.K@Chula.ac.th

Current areas of activity

- Water Security Assessment in ASEAN
- Vulnerability and Risk assessment due to Climate Change
- PERSIANN-CCS Estimation for Water and Disaster Management
- Climate Change Impact Assessment on Groundwater Management for sustainable development

Future Activities to address the SDGs

- Water-Energy-Food NEXUS's data base and model development for Sustainable Development
- Flood and Drought Monitoring and Warning System with application from Remote Sensing Images
- Sustainable Groundwater Management under Climate Change
- **THA2019** International Conference on Water, Disaster Management and Climate Change



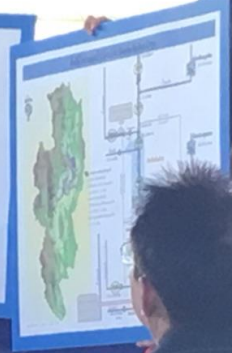


Community Water Planning (Chang, Nan)





การประชุมเพื่อรับฟังความคิดเห็นของ
ประชาชนและผู้มีส่วนเกี่ยวข้อง ในการประชุมสาธารณะ
ในการจัดตั้งศูนย์พัฒนาอาชีพ
วันที่ ๑๐ มกราคม ๒๕๖๑ เวลา ๐๙.๐๐ - ๑๑.๐๐ น.
ณ ศูนย์พัฒนาอาชีพ...



แม่ฮ่องสอน
หมู่ ๑๑

แม่ฮ่องสอน
หมู่ ๑๑

แม่ฮ่องสอน
หมู่ ๑๑

Water-paddy-forest exchange



Integrated plan for **Bang Rakam** floods



Retention pond, cultivation schedule shift



Paddy (4) +fishing (4) +paddy(4)



Royally-Initiated Laem Phak Bia Environmental Research and Development Project (LERD)

Using the principle of “Nature cures nature”, the late King Bhumibol initiated Laem Phak Bia Royal Project to treat wastewater and organic solid waste through environmentally and ecologically sustainable methods. Local people are encouraged to use the area to grow economic crops for wastewater filtration and to fish in regenerated mangrove forest areas.

There are four main technologies concerning wastewater treatment :

1) Lagoon treatment system,



There are four main technologies concerning wastewater treatment :

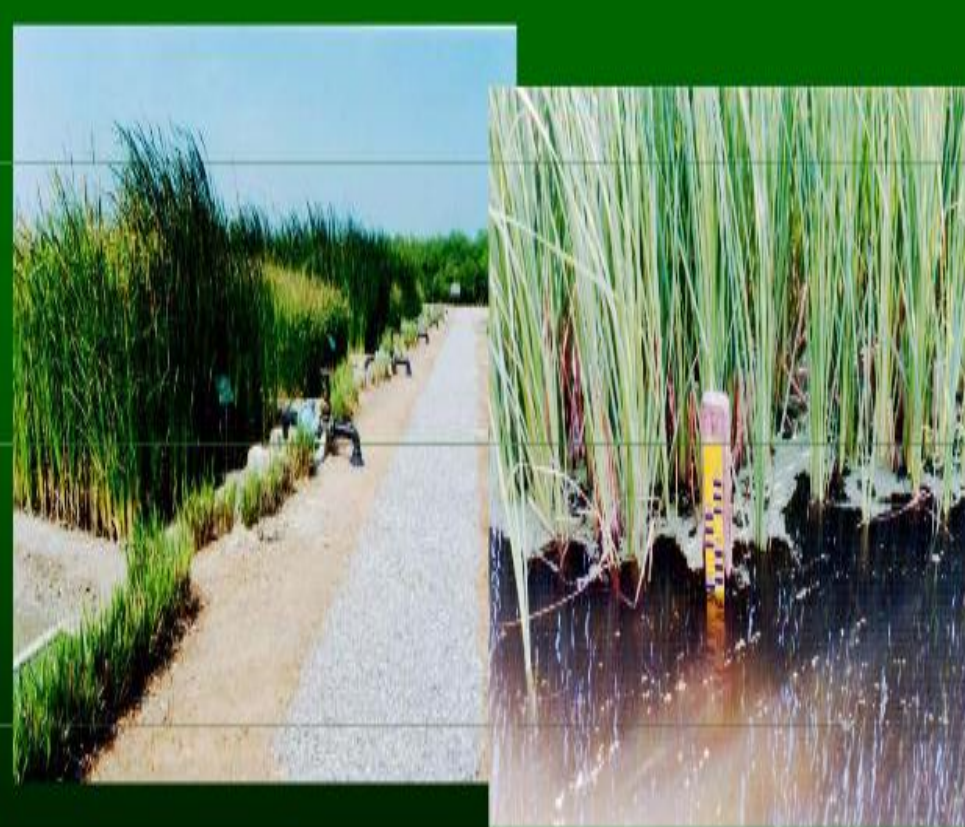
2) Grass filtration system,



Water Quality in Phetchaburi River changed from SW WQ level 5 to level 2-3 (bad to good).

3) Constructed wetland system, and

4) Mangrove forest system.



ASEAN Network on WRM/CC in 2017



UNESCO-Satellite Training







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CHULA ENGINEERING
Expectation toward Innovation

The 3rd ASEAN Technical Workshop on
CHRS Remote Sensing Precipitation & Bias Adjustment of
PERSIANN-CCS Estimation for Water and Disaster Management

January 24-26, 2017

Chulalongkorn University and Swissôtel Le Concorde
Bangkok, Thailand

Faculty of Engineering, Chulalongkorn University
www.eng.chula.ac.th

1st Announcement and Call for Papers (draft)

THA 2019 International Conference on Water Management and Climate Change towards Asia's Water-Energy-Food Nexus and SDGs

23-25 January 2019,
Swissôtel Le Concorde, Bangkok, Thailand

