

## Introduction

The 2011 flood event affected areas of 65 provinces in Thailand. The total damage was 1.4 trillion baht, and was ranked as the World's fourth costliest disaster. As leading academic institutions, Kasetsart University and Delft University of Technology, Netherlands set up the training program to integrate different disciplines for effective flood prevention and management of the country. This program consists of 2 sections, Section I: introduction and knowledge sharing (January to February, 2013), Section II: advance research approach (March, 2013). This program was funded by Netherlands Organization for International Cooperation in Higher Education (NUFFIC).

## Objectives

The tailor-made training program aims to provide current international knowledge and technologies in integrated flood management for Thailand. The program also promotes joint research activities and enhances scientific researches in the field of Hydrology, Civil Engineering, and Urban Planning towards the flood disasters reduction and enhances the safe and sustainable development for Thailand.

Recent knowledge on hydrology, flood management, flood risk reduction measures, design of infrastructure for flood protection, and urban planning for flood management will be presented through integration across disciplines.

## Registration Form

### Training Program

### ADVANCES IN INTEGRATED FLOOD MANAGEMENT

Name:

.....  
.....  
.....

Affiliation: .....

Address:

.....  
.....  
.....

Tel: .....

Fax: .....

E-mail: .....

Please send the registration form to the below e-mail  
address [flood.management.training.2013@gmail.com](mailto:flood.management.training.2013@gmail.com)

**Duration** 28 Jan - 2 Feb 2013 (1<sup>st</sup> section)

**Fee** 6-day free of charge  
(for invited participants)

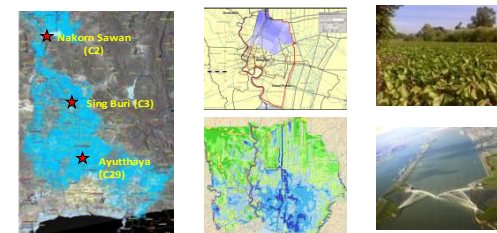
2-day free of charge  
(Mon and Tue for public participants)

**Language** English (and Thai translation)

**VENUE** Boonsom Suwatchira (Bldg.9)  
Faculty of Engineering  
Kasetsart University  
<http://www.ce.eng.ku.ac.th>

## Training Program

### ADVANCES IN INTEGRATED FLOOD MANAGEMENT



1<sup>st</sup> Section

28 January 2013 – 2 February 2013

### Coordinators



Kasetsart University  
Thailand



Delft University of Technology  
Netherlands

### Partners



### Sponsors



Netherlands Organization for International  
Cooperation in Higher Education

## ADVANCED IN INTEGRATED FLOOD MANAGEMENT 2013 PROGRAM

Lecture program on Monday and Tuesday 28 - 29 January 2013

	Monday 28/1/2113		Tuesday 29/1/2113	
Theme	General background, hydrology and	Speakers	Flood risk, design of flood	Speakers
9:00 - 10:30	<ul style="list-style-type: none"> <li>- Opening Ceremony</li> <li>- Short introduction to the training program</li> <li>- The 2011 flood/ lesson learn and the future challenge for research development in thailand</li> </ul>	Netherlands ambassador and vice President of Kasetsart University <b>Dr.Jonkman (TU Delft)</b>  <b>Dr. Suthat Weesakul (AIT)</b>	<ul style="list-style-type: none"> <li>- Master plan for integrated flood management in Thailand</li> <li>- General introduction to flood risk reduction measures</li> </ul>	<b>Dr. Apichart Anukulaumphai(DWR)</b>   <b>Dr.Jonkman (TU Delft)</b>
10:30	Coffee break			
10:45 - 12:00	<ul style="list-style-type: none"> <li>- Developments in flood risk management in the Netherlands and worldwide</li> <li>- Flood protection strategies for industrial estate</li> </ul>	<b>Dr.Jonkman (TU Delft)</b>   <b>Dr.Napaporn Piemsagha (KU)</b>	<ul style="list-style-type: none"> <li>- Principles of flood protection design</li> <li>- Examples / case studies: Community participatory flood management in monkey cheek area</li> </ul>	<b>Dr.Jonkman (TU Delft)</b>   <b>Dr.Barames Vardhanabhuti (KU)</b>
12:00	Lunch break			
13:00 - 14:30	<ul style="list-style-type: none"> <li>- Introduction to hydrology and river basin management</li> <li>- Introduction to the Chao Phraya River Basin and development of flood modeling</li> </ul>	<b>Dr.Savenije (TU Delft)</b>   <b>Dr.Piyaman Srisomporn (HAIL)</b>	<ul style="list-style-type: none"> <li>- Historical development of land use and water management in the Netherlands</li> <li>- Land use planning and flood management in Thailand</li> </ul>	<b>Dr.Fransje Hooimeijer (TU Delft)</b>   <b>Dr.Lambregts (KU)</b>
14:30	Coffee break			
14:45 - 16:00	<ul style="list-style-type: none"> <li>- Hydrology and river Basin management (continued)</li> <li>- Closing discussion</li> </ul>	<b>Dr.Savenije (TU Delft)</b>   <b>all</b>	<ul style="list-style-type: none"> <li>- Application of telemetering system in Thailand</li> <li>- Question, discussion and exercises</li> <li>- Introduction of field trips Summary</li> </ul>	<b>Dr.Jirawat Kanasute (KU)</b>   <b>Dr.Jonkman and Dr.Barames (KU and TU Delft)</b> <b>Dr.Jonkman and Dr.Barames</b>

1 <sup>st</sup> Section						
	Monday 28/1/2113	Tuesday 29/1/2113	Wednesday 30/1/2113	Thursday 31/1/2113	Friday 1/2/2113	Saturday 2/2/2113
Theme	General background, hydrology and flood management	Flood risk, design of flood protection, and urban planning	City planing for flood protection	Field visit	Field visit	Lessons learn and the future
9:00 - 10: 30	<ul style="list-style-type: none"><li>- Opening Ceremony</li><li>- Short introduction to the training program</li><li>- The 2011 flood/ lesson learn and the future challenge for research development in thailand</li></ul>	<ul style="list-style-type: none"><li>- Master plan for integrated flood management in Thailand</li><li>- General introduction to flood risk reduction measures</li></ul>	2045  city  adaptive  Bangkok  on  Symposium	<u>Ayutthaya</u> <ul style="list-style-type: none"><li>- Industrial estate flood protection</li><li>- Boat cruise around Ayutthaya historical area</li><li>- Historical and cultural tour (Bang Pa In Palace, Baan Hollanda)</li></ul>	<u>Chainat</u> <ul style="list-style-type: none"><li>- Flood protection reconstruction (RID)</li><li>- Community participatiry flood management in Monkey Cheek area (Ayutthaya or Chainat)</li></ul>	Morning disscussion Leaving to Bangkok
10:30	Coffee break					
10:45 - 12:00	<ul style="list-style-type: none"><li>- Developments in flood risk management in the Netherlands and worldwide</li><li>- Flood protection strategies for industrial estate</li></ul>	<ul style="list-style-type: none"><li>- Principles of flood protection design</li><li>- Examples / case studies: Community participatory flood management in monkey cheek area</li></ul>				
12:00	Lunch break					
13:00 - 14:30	<ul style="list-style-type: none"><li>- Introduction to hydrology and river basin management</li><li>- Introduction to the Chao Phraya River Basin and development of flood modeling</li></ul>	<ul style="list-style-type: none"><li>- Historical development of land use and water management in the Netherlands</li><li>- Land use planning and flood management in Thailand</li></ul>				
14:30	Coffee break					
14:45 - 16:00	<ul style="list-style-type: none"><li>- Hydrology and river Basin management (continued)</li><li>- Closing discussion</li></ul>	<ul style="list-style-type: none"><li>- Application of telemetering system in Thailand</li><li>- Question, discussion and exercises</li><li>- Introduction of field trips Summary</li></ul>				
Evening	Reception dinner			Stay overnight at Ayutthaya	Farewell dinner Stay overnight at Ayutthaya	

**Note:** The 2<sup>nd</sup> section will be organized in March, 2013 and the detail program will be announced later.