FLOOD CONTROL: EVALUATION AND CASE STUDIES

Prof. Dr. Sahol Hamid, Malaysia

Short Course, Tuesday March, 31 to Saturday April 11, 2009
WAREM, room 0.04

Hours per Week: 2    (3 hours of lectures/exercises over 10 days + seminar)
Certif. of credits: oral (presentation) and written exam
Type of course: Lecture, exercise, seminar
ECTS-Credits: 3    SWh: 2

1. Introduction to flood control and flood control projects around the world
Details on flood control projects and its evaluation based on world bank procedures.
3 hrs

2. Flood control hydrological and hydraulic procedures.
Procedures by US Army Corps of Engineers.
6 hrs

3. Flood control economics
World bank procedures and practice.
6 hrs

4. Tsunami
Occurrence, geophysics, different types of Tsunami. Case study on Aceh, Indonesia.
3 hrs

5. Three Gorges dam flood control project in China
The biggest flood control dam project explained in detail.
3 hrs

6. The SMART Tunnel, Malaysia
The biggest flood control tunnel and road way underground built for flood reduction and roadway. This mega project is fully operational.
3 hrs

7. Flood Control Projects in UK and Netherlands
3 hrs

8. Special Topics:
Rainfall Harvesting, Invisible flood walls, Floating Breakwaters
3 hrs

Each student is required to prepare and give a 20 minutes presentation on a flood control project in any part in the world and sit for a 1.5 hour test on topics 1,2 and 3 only.

Please register immediately with
warem.admin@iws.uni-stuttgart.de (limited no. of participants)