**FLOOD CONTROL: EVALUATION AND CASE STUDIES**

Prof. Dr. Sahol Hamid, Vice Chancellor of Universiti Teknologi MARA, Malaysia

**Short Course, Wednesday June 16th to Thursday June 24th, 2010**

**WAREM, room 0.04**

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<tr>
<th>Hours per Week: 2</th>
<th>Certif. of credits: oral (presentation) and written exam</th>
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<td>(3 hours of lectures/exercises over 10 days incl. Seminar and Exam)</td>
<td>ECTS-Credits: 3</td>
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<th>Type of course: Lecture, exercise, seminar</th>
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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 roadmap. 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@iws.uni-stuttgart.de (limited no. of participants)