FLOOD CONTROL: EVALUATION AND CASE STUDIES

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

Short Course, Thursday Nov 17th to Saturday Nov 26th, 2011

Lecture room 0.04 in Pfaffenwaldring 7a

<table>
<thead>
<tr>
<th>Hours per Week: 2</th>
<th>(3 hours of lectures/exercises over 8 days incl. Seminar and Exam)</th>
<th>Certif. of credits: oral (presentation) and written exam</th>
</tr>
</thead>
<tbody>
<tr>
<td>Type of course:</td>
<td>Lecture, exercise, seminar</td>
<td>ECTS-Credits: 3</td>
</tr>
</tbody>
</table>

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 a.s.a.p. with
warem@iws.uni-stuttgart.de (limited no. of participants)