URB-15 Understanding and sketching of water surface profiles in open channels

Objective: This course will give a general overview on understanding of the 12 types of gradually varied water surface profiles in prismatic open channels

Contents:

- Fundamentals and energy equation for gradually varied flows; types of water surface profiles; the concept of control points
- A user-friendly 6-Steps Method will be introduced so that the water surface profiles can be identified and sketched in a consistent manner. Concept of control points and examples of sketching. Backwater flow
- Practical examples will be shown using HEC-RAS

Who should attend: Professional (administrative or technical) staff from public or private sectors with an interest in hydraulics, river engineering or coastal engineering

Courseware: Selected slides and background documents as handouts and/or electronic files

Certification: Attendance certificate (subject to 80 percent attendance)

Duration: 3 lessons (2 hours each)

Schedule: Lesson 1: Monday 1 December 2008 4pm - 6pm
Lesson 2: Wednesday 3 December 2008 4pm - 6pm
Lesson 3: Monday 8 December 2008 4pm - 6pm

Costs: $ 400 per participant (inclusive of GST)

A *discount of 20 percent* applies to 3 or more participants from the same organization in the same course

Instructor: Lim Siow Yong, associate professor, who received both his bachelor and doctoral degrees from University of Liverpool, UK. He joined NTU in April 1991. His research and consulting works cover fluvial, hydraulic and water resources engineering, particularly in mechanics of sediment transport, scour and scour control, and open channel flows. He has published 36 papers in refereed journals and 32 conference papers

and/or
Nian-Sheng Cheng, hydraulic engineer (MSc, PhD), associate professor, School of Civil and Environmental Engineering, NTU, with previous appointments at Nanjing Hydraulic Research Institute, China, and Technical University of Denmark. As a specialist in hydraulics and sediment transport, he has conducted research and practical projects in the areas of hydraulic, river and coastal engineering, sediment transport, and turbulence

and/or
Tan Soon Keat, employed at NTU since 1984, and Director of its Maritime Research Centre since its inception in 2001. His research interests include GIS applications in water resources, numerical simulation of flow for hydraulics and coastal engineering applications. Dr Tan also provides consultancy services within surge analysis, drainage and hydraulic design, and modelling of hydraulic and coastal processes

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