

COAST-02 Sediment transport and morphology

- Objective:** Management of sediment processes - erosion and siltation - are sometimes decisive to operation and maintenance costs, and hereby, sometimes, to the feasibility of a planned project. The participants will achieve an introduction to sediment transport processes and to prediction of coastal erosion and sedimentation
- Contents:**
- Erosion and transport mechanisms; wind, waves, wave currents, ocean currents, tidal streams; inlets and estuaries
 - Origin and characteristics of sediments
 - Transport rates and mass budgets for sediments; analytical and numerical methods; examples
 - Siltation in harbour basins and navigation channels; coastline erosion and accretion; causes and effects; impacts of changed flow patterns; control, mitigation, maintenance
- Who should attend:** Engineers and technical specialists from the public and private sector with a need of an introduction to the subject
- 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: Tuesday 25 November 2008 4pm - 6pm
Lesson 2: Wednesday 26 November 2008 4pm - 6pm
Lesson 3: Thursday 27 November 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
- Instructors:** Jacob Hjelmager Jensen (DHI Malaysia), sediment transport specialist, educated as a civil engineer (MSc, PhD), working with coastal engineering, sedimentation studies, and numerical modelling of sediment transport, with practical experience within impacts of structures, shore protection, scour around structures, backfilling of trenches, sediment plumes, sedimentation in harbours, and reclamation hydraulics

and/or
Tom Foster (Director of DHI Singapore), river and coastal engineer, MSc. Comprehensive experience covering integrated coastal zone management (ICZM) and integrated impact assessment (currents, navigation, morphology, water quality and ecology), as well as environmental monitoring and management of large coastal projects such as reclamation and dredging; ports development, and coast conservation
- Enquiries and registration:** DHI Water & Environment, tel. 6777 6330, e-mail: info@dhi-ntu.com.sg