# W-03 Rivers and reservoirs

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| Objective: | To obtain a general, inter-disciplinary, introductory overview of river engineering and reservoir technology |
| Contents: | • Hydrological context<br>• River hydrodynamics and hydraulics; mass budgets; sediment transport; morphology; bank protection; flood control; salinity control<br>• Water quality; fish habitats; environmental flows<br>• River deltas and estuaries; case studies<br>• Reservoirs: Hydraulic design; hydraulic operation; bank erosion; siltation; water quality<br>• Monitoring and operation |
| Who should attend: | Professional (administrative or technical) staff from the public and private sector with an interest in management, design, operation and/or maintenance of rivers and reservoirs |
| Courseware: | Selected slides and background documents as handouts and/or electronic files |
| Certification: | Attendance certificate (subject to 80 percent attendance) |
| Duration: | 2 lessons (2 hours each) |
| Schedule: | (Pending, to be agreed) |
| Costs: | $ 300 per participant (inclusive of GST)<br>A *discount of 20 percent* applies to 3 or more participants from the same organization in the same course |
| Instructor: | Christopher Nielsen (DHI Malaysia), hydraulic and water quality modelling specialist, civil engineer (MSc), with experience from development of numerical models and simulations of coastal hydraulics, river hydraulics, overland flow, floods, sediment transport and water quality for planning, design optimization and impact analyses in Australia, Hong Kong, Malaysia, Thailand, USA, and Viet Nam |
| Enquiries and registration: | DHI Water & Environment, tel. 6777 6330, e-mail: info@dhi-ntu.com.sg |