



December 14 – 19, 2009
The University of Hong Kong

∞ **1st Announcement** ∞

Over the past decade, our ability to predict the environmental impact of major coastal pollution discharges has improved substantially. However, there are still many gaps in our understanding of near shore coastal water quality. In particular, the complicated interaction of non-point source pollution and surface runoff with wave and tide-induced currents in the littoral zone cannot be adequately described in existing 3D tidal hydrodynamics models. Other marine environmental research challenges include: nearshore hydrodynamics, fate and transport of endocrine disrupting compounds; beach water quality prediction; environmental impacts of seawater desalination; Lagrangian transport; ecological risk assessment and public engagement; real time data-driven models for coastal management.

The objective of the meeting is to update established engineers and scientists (from Hong Kong and the region) in academia, government, and industry of recent developments in the prediction and management of nearshore coastal water quality, with emphasis on fundamental research relating to the above aspects.

Key Themes

- Nearshore hydrodynamics; mixing and transport
- Water quality modelling/hydro-biological interactions
- Beach water quality forecasting and management
- Environmental impacts of seawater desalination

Lecturers

- Professor Robert Dean, University of Florida, USA
- Professor Roger Falconer, University of Cardiff, UK
- Professor Peter Franks, Scripps Institution of Oceanography, UC San Diego, USA
- Professor Stanley Grant, University of California, Irvine, USA
- Professor Gerhard Jirka, University of Karlsruhe, Germany
- Professor David Kay, University of Wales, UK
- Professor Guus Stelling, Delft University of Technology, Netherlands





Course Director

Professor Joseph Hun-wei Lee (The University of Hong Kong)

Organising Committee

Professor Roger Falconer (The University of Cardiff, U.K.)

Professor Gerhard Jirka (University of Karlsruhe, Germany)

Professor Winston Lung (The University of Virginia, U.S.A.)

Professor Paul Harrison (Hong Kong University of Science and Technology)

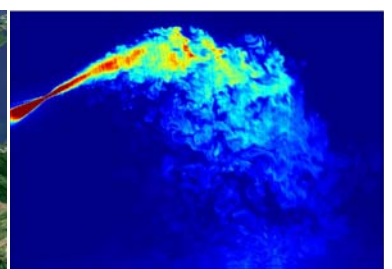
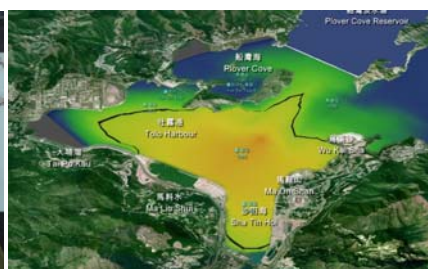
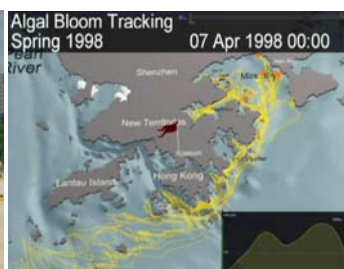
ASI Organisation

The ASI is intended to be a high-level teaching activity where the selected topics are treated in depth by lecturers of international standing, and new advances on the subject. There will be lectures followed by case studies and group discussions. A poster session will run throughout the ASI, and field visit to related laboratories / research sites are being planned. The ASI is primarily aimed for established scientist and researchers, and a limited number of postdoctoral fellows and doctoral students actively working on related research.

Applications/Inquiries

To maximize interaction between lecturers and course participants, the meeting is limited to 60 participants. Applicants should complete the attached form (please attach a one page CV stating the reasons for wishing to attend this ASI) and return to Course Director or ASI Secretariat on or before **September 30, 2009**.

For queries please contact the ASI Secretariat:
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Email: asi2009@hku.hk



THE CROUCHER FOUNDATION

**Advanced Study Institute on
Recent Developments in Nearshore Coastal Water Quality Research:
Prediction, Hydro-biological Interactions and Management**

December 14 – 19, 2009
The University of Hong Kong

REGISTRATION FORM

To: Ms. L. Hung
c/o Department of Civil Engineering
The University of Hong Kong
Tel.: (+852) 2859-2663
Fax No.: (+852) 2559-5337
Email: asi2009@hku.hk

From: Name: (Mr./Ms./Mrs./Dr./Prof.) _____
(Surname) (Given Name)

Title: _____

Affiliation: _____

Address: _____

Tel.: _____

Email: _____

Form of presentation: Poster Attend only

Please state reasons for attending the ASI and attach a one page CV as appropriate.

For applicants from Mainland China, please tick the box if you require an invitation letter to apply for an entry visa into Hong Kong.