

## **Workshop on Regional Eutrophication and NOWCAST Model for Hong Kong**

**The University of Hong Kong  
November 18-19, 2002**

### **Supported by The Croucher Foundation**

This Workshop is a continuation of the Croucher Foundation Advanced Study Institute (ASI) on *Recent Developments in Coastal Eutrophication Research: Prediction, Decision Support Systems, and Management* held in February 5-12, 2001 ([http://www.hku.hk/civil/dept\\_activities/asi/](http://www.hku.hk/civil/dept_activities/asi/)). After the weeklong inter-disciplinary meeting, it was concluded that there was a need to; develop a Hong Kong water quality and eutrophication modelling system; conduct a comparative study between the eutrophication of Hong Kong and Bohai Bay, a vast semi-closed area with increasing frequency of red tides in North China; and continue research on sediment-water interactions and mitigation of Harmful Algal Blooms (HAB) in Hong Kong and Mainland China.

The main objective of this two-day Workshop is to discuss issues related to the development of a regional coastal eutrophication management model and a real-time HAB forecasting (NOWCAST) system. Models that integrate hydrodynamics and water quality with in-situ field monitoring systems and/or remote sensing measurements will be reviewed. The Workshop will include key researchers in Hong Kong and the region, and scientific personnel from government departments. The Workshop will involve (1) a number of invited lectures to report on related modelling experience in North America and Europe; (2) key presentations on local experience; (3) group discussions; and (4) site visits. The lectures and discussion topics will cover coastal hydrodynamic and water quality modelling, data-driven methods for ecological forecasting, model accessibility and technology transfer, bio-indicators, real-time forecasting, hydro-biological interactions, and technologies for impact and risk assessment.

**Workshop Director:** Professor Joseph Hun-wei Lee (The University of Hong Kong)

**Organising Committee:** DM Anderson (Woods Hole), PA Davies (Dundee), GH Jirka (Karlsruhe), WS Lung (Virginia), RRS Wu (City University of Hong Kong).

**Workshop Lecturers include:** Don Anderson (Woods Hole Oceanographic Institution), Winston Lung (Virginia), Arthur E Mynett (Delft Hydraulics), Guus Stelling (Delft University of Technology).

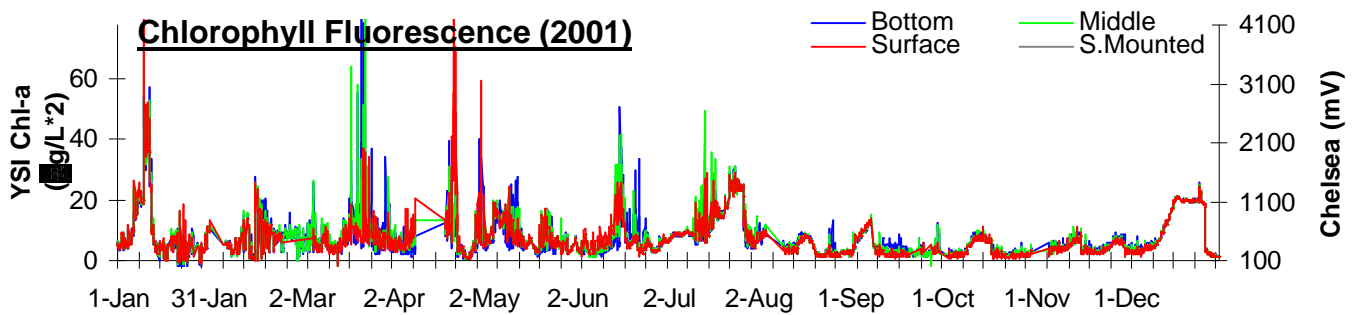
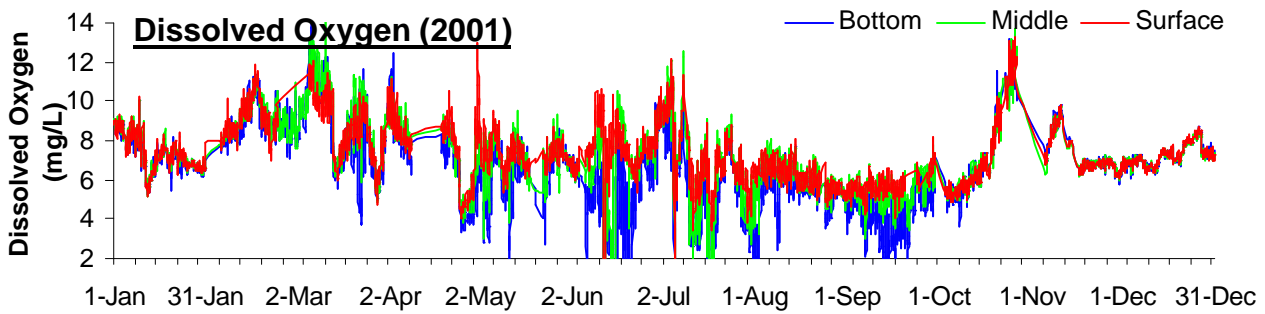
**Other Workshop participants include:**

Peter Davies (Dundee), M Watanabe (NIES, Japan), John Hodgkiss (HKU), ZY Wang (Tsinghua), JH Tao (Tianjin), ZR Guo (SCIENS, Guangzhou), members of the Hong Kong RGC Research Project on "Dynamics of algal blooms and red tides in sub-tropical waters", and the Red Tide/HAB Expert Advisory Group of the Hong Kong SAR Government. Some financial assistance for travel may be available for participants from the region with demonstrated need.

**Applications/enquiries:**

To maximize interaction between lecturers and course participants, the meeting is limited to 50-60 participants. Applicants should complete the attached form as soon as possible (please attach a one page CV or statement stating the reasons for wishing to attend this Workshop) and return to: Ms. Wai-Ling Tse, Department of Civil Engineering, The University of Hong Kong, Pokfulam Road, Hong Kong, Tel: (+852) 2859-2670, Fax: (+852) 2559-5337, Email: [eutrohk@hku.hk](mailto:eutrohk@hku.hk).

Further details on the Workshop will be available from <http://www.aoe-water.hku.hk/>



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Return to: Ms. Wai-Ling Tse  
Department of Civil Engineering, HKU, Pokfulam Road, Hong Kong  
Tel: (+852) 2859-2670; Fax: (+852) 2559-5337; Email: [eutrohk@hku.hk](mailto:eutrohk@hku.hk)

**Expression of Interest Form**

Title: \_\_\_\_\_ Name: \_\_\_\_\_

Affiliation: \_\_\_\_\_

Address: \_\_\_\_\_

Tel: \_\_\_\_\_ Fax: \_\_\_\_\_

Email: \_\_\_\_\_

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

State Reasons for Attending (or attach CV/Statement)