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Seminar

D-Flow Flexible Mesh, the Next Generation Hydro-environment Software Suite

by

Dr. Qinghua Ye

Dr. Willem Stolte

Deltares, The Netherlands

Date: Feb 24, 2016 (Friday)

Time: 18:30 - 19:30 p.m.

Venue: Room 6-12B, Haking Wong Building, The University of Hong Kong

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ABSTRACT

D-Flow Flexible Mesh (D-Flow FM) is the next generation hydro-environment software suite developed by Deltares using unstructured grid. This seminar gives a general overview of the most recent development and applications of D-Flow FM and briefly discuss:

- The numerical implementations in hydrodynamics;
- Typical hydrodynamic applications in coastal, estuary, rivers, including passing ship wave, vegetation, harbour mixing, urban flooding etc.
- Recent development in water quality modelling
- Coupling between hydrodynamics and water quality, and with other modules such as wave
- And in the end, possible applications in Hong Kong will be discussed.

With equipment of this innovative modelling tool, researchers, managers, stakeholders may be easier to understand, to develop the coastal and delta area in a sustainable way.

BIOGRAPHY

Dr Qinghua YE is a senior advisor and researcher in Deltares Software Center, and part time research scientist in Coastal Engineering Department in the Technical University of Delft, the Netherlands. Dr. Ye received his bachelor degree from Zhejiang University, MSc degree from Nanjing Hydraulic Research Institute, and MSc and PhD degrees from the Technical University of Delft, the Netherlands. His research focuses on coastal sediment transport processes, coastal morphodynamics and numerical modelling techniques.

Dr. Willem STOLTE is a senior expert on Microbial Ecology in Deltares. Dr. Stolte received his MSc and PhD degrees from Faculty of Mathematics and Natural Sciences, University of Groningen, the Netherlands. His research focuses on marine ecology, notably plankton ecology, toxic and nuisance algal blooms, phytoplankton ecotoxicology, plankton modelling, watershed eutrophication modelling, impacts of eutrophication in the coastal zone.

- ALL ARE WELCOME -