

One-Day Seminar *Coastal Engineering due to Climate Change*

Organized by
RED CPD Limited
Non-financial Supported by
HKIE Environmental Division, CIWEM-HK and IAHR-HK

Date: 28 October 2019
Venue: Chamber 3, InnoCentre, 72 Tat Chee Avenue, Kowloon, Hong Kong
Time: 08:45 (registration) and 09:00 - 17:30

Scope and Objectives

Coastal flooding and beach erosion problems in Hong Kong become a timely issue after the invasion of typhoons Hato (2017) and Mangkhut (2018). It is likely that the risk of coastal flooding is increased due to climate change which causes sea level rise and increasing typhoon intensity. The current flood protection and beach nourishment facilities may need to be enhanced to deal with the climate change effects.

Aims of this seminar :

- 1) To have a basic understanding of the mechanisms of coastal flooding due to tide, surge and waves, with case study of typhoon Mangkhut
- 2) To acquire knowledge on adaptive measures of coastal flooding: retreat, accommodation and protection, with case study of using floodgates
- 3) To have a basic understanding of the mechanisms and impact of beach erosion, with case study of Golden Beach and Lung Mei Beach
- 4) To address Coastal Challenges to Flood Management and to suggest a way forward for Wastewater Management in times of Climate Change

Speakers

1) Prof. C.W. LI

Prof. LI is a Professor in the Department of Civil and Environmental Engineering of The Hong Kong Polytechnic University. He obtained his BSc(Eng) and PhD degrees from the University of Hong Kong. He has over 25 years of research, consultancy and teaching experience in wind engineering and hydraulic engineering. He has managed and conducted numerous consultancy projects on wind engineering and hydraulic engineering for the government departments, consultants and contractors. He has published over 180 papers in international journals and conference proceedings. He is an Associate Editor of the Journal of Hydro-environment Research and the journal Engineering Applications of Computational Fluid Mechanics. He received the President's Award for Outstanding Performance/ Achievement in Research and Scholarly Activities in 2000.

2) Prof. Onyx W.H. WAI

Ir Prof. WAI is a professor in the department of civil and environmental engineering of the Hong Kong Polytechnic University. He obtained his B.A.Sc in civil engineering from University of Windsor, Canada and M.S. and Ph.D. majoring in coastal engineering from the Ohio State University. Before Prof. Wai joined PolyU in 1992, he had participated in a number of large scale US EPA and NOAA Great Lakes Environmental Research Laboratory research projects on coastal defense and protection. He was awarded the American Society of Civil Engineers' Karl Emil Hilgard Prize in 1989. Prof. Wai has been teaching coastal hydraulics and water quality modeling at postgraduate level for over 15 years. He is also regularly invited to provide workshops and seminars on hydraulic and coastal engineering topics to government departments and consultancy companies. Prof. Wai has been adviser and expert reviewer to a number of CEDD and DSD projects. He received the PolyU Distinguished Knowledge Transfer Excellence Award in 2012.

3) Prof. P.K. CHAN

Ir Prof. CHAN Pak Keung is an Honorary Fellow of the Hong Kong Chapter of the International Association of Hydro-Environmental Engineering & Research (IAHR-HK). He is a retired Assistant Director of Drainage Services Department, he has over thirty years practical experience (from 1980 to 2014) as a qualified Civil & Structural Engineer, specialising in Wastewater Engineering & Flood Management. Since 2015, he has been active in Civil & Environmental Engineering Education, he has been an Adjunct Professor of The University of Hong Kong and was Professor of Practice (Infrastructure) of The Hong Kong Polytechnic University from 2015 to 2018; and he has got BSc (Eng) and MSc (Eng) Degrees in Civil Engineering from The University of Hong Kong and a Postgraduate Diploma in Hydraulic Engineering (Lowland Development) from the IHE Delft - Institution of Water Education - of The Netherlands.

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Time	Program
08:45 – 09:00	Registration
09:00 – 10:15	Coastal Flooding Mechanisms and Adaptive Measures (by Prof. C.W. Li)
10:15 – 10:45	Tea Break
10:45 – 12:00	Beach Erosion - Mechanisms and Impacts (by Prof. Onyx W.H. Wai)
12:00 – 12:30	Q & A for AM Sessions
12:30 – 14:00	Lunch Break
14:00 – 15:15	Coastal Challenges to Flood Management in times of Climate Change - Concepts & Practice (by Prof. P.K. Chan)
15:15 – 15:45	Tea Break
15:45 – 17:00	Climate Change Mitigation & Adaptation in Wastewater Management -Way Forward (by Prof. P.K. Chan)
17:00 – 17:30	Q & A for PM Sessions

Official Language

Cantonese will be the official language.

CPD Certificates

This seminar is recommended for **One** CPD day. An attendance certificate will be issued.

Fees & Registration

Registration Fee: **HK\$ 800 (Graduate Members of HKIE); HK\$ 1,200 (Others).**

Contact Person

For enquiry, please contact

CPD department (Tel: 2659-5966)

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REGISTRATION FORM (To be replied on or before 23 October 2019)

Please follow the 2 steps registration procedure:

1. Fax or email the completed registration form to **RED CPD Limited** (by fax: 2676 9599 or by email: cpd@red.com.hk) for registration.
2. Post the completed registration form together with a crossed cheque payable to **RED CPD Limited** and send it to "Units 312-316, 3/F, Koon Wah Building, 2 Yuen Shun Circuit, Yuen Chau Kok, Shatin" on or before 23 October 2019.

To: RED CPD Limited

Fax: 2676-9599

A. Personal Details:

Title	Name in full (Block Letter)	Name of Company	Tel. (or Fax)	E-mail address
1.				
2.				
3.				
4.				
5.				

Postal Address

(for official receipt): _____

B. Registration Details:

Item	Registration Fee	Total no. of registration	Sub-total
1. Registration (Graduate Member of HKIE)	HK\$ 800 each x	_____ person(s)	= HK\$ _____
2. Registration (Others)	HK\$ 1,200 each x	_____ person(s)	= HK\$ _____
Total amount:			HK\$

Note: The registration fee includes a copy of CPD certificate and 2 tea refreshments (lunch not included)

I enclosed a crossed cheque (cheque no. _____) with the sum of HK\$ _____ for the registration fee of the captioned Seminar.

Signature: _____ Date: _____