

**DEPARTMENT OF MECHANICAL ENGINEERING****SEMINAR****Online**

**Title:** Coastal Waves Hindcast in Hong Kong

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**Date:** 26 April, 2022 (Tuesday)

**Time:** 11:00 a.m. (Hong Kong Time)

**Zoom meeting:** 1) Link to join the meeting:

<https://hku.zoom.us/j/95298564132?pwd=THkxa2x1dFFBUetJbmh1M2RLckJWZz09>

2) Meeting ID: 952 9856 4132

3) Password: 885481

**Abstract:**

Waves generated from typhoons are one of the major natural threats to Hong Kong. This complicated weather system brings hazardous waves to the coastal low-lying regions which are hard to be predicted. To combat against the waves, a study on the potential of multiple-row breakwaters using large-scale domain numerical simulations, the Simulating WAVes Nearshore model, in enhancing wave cancellation capability and protecting coastal areas under real-world oceanic conditions in Ap Lei Chau was carried out. With the implementation of multiple-row floating breakwaters, improvements in terms of a reduction of transmitted wave heights in normal and typhoon conditions are observed in the simulation results.

**ALL INTERESTED ARE WELCOME**

For further information, please contact Prof. K.W. Chow at 3917 2641.

**Research area: Natural & Built Environment**