ENGINEERS
AUSTRALIA
Hong Kong Chapter

WATERMAN – Real-time beach water quality for Hong Kong

(Jointly organized by EVD, CIWEM HK, IAHR HK, EAHK, AMC and YMC)

Date, Time & Venue

26 Jul 2011 (Tue); 6:30pm to 8:00pm; reception starts at 6:00 p.m. at Lecture Hall, TU201, The HK Polytechnic University

Programme Highlights

Along the 700 km coastline of Hong Kong, there are 41 gazetted beaches that are used by millions of users. Swimming in polluted waters is hazardous to health, ensuring good beach water quality is therefore important. Epidemiological studies have shown that bacterial level is a good indicator of beach water quality. The current beach monitoring system in Hong Kong relies on past water quality data sampled at intervals between 3-14 days; when bacterial level in a beach varies dynamically on a daily basis, the current system may not be able to fully track the bacterial variation. Using both statistical and deterministic modeling approaches, the WATERMAN system provides daily beach water quality forecasts to Hong Kong beaches through the internet. Worldwide it is one of the most advanced water quality forecasting and management systems of its kind. This talk will introduce the critical environmental factors that affect marine beach water quality in Hong Kong, and the principles underlying the WATERMAN real-time beach water quality forecast system.

Speaker

Prof Joseph H. W. Lee,
Principal Investigator, Project WATERMAN, HKU
Vice-President for Research & Graduate Studies, HKUST

Registration & Enquiries

Online registration is required. For registration, please complete and send the enrollment form via Environmental Division website (http://ev.hkie.org.hk/). For enquiries, please contact Ir Anthony Kwan at Tel: 9356 4628. Attendance certificate will be available.