

You are cordially invited to a seminar organized by Centre for Offshore Research and Engineering (CORE) and Department of Civil and Environmental Engineering

## ***“Uptake of Ocean Energy in particular Tidal In-stream Energy- R&D focus areas ”***

By

**Ravindran P.**

*R&D Program Manager*

*Global Research & Innovation Centre, ClassNK*

**Date:** Wednesday, 22 March 2017  
**Time:** 4:30 pm to 6.00 pm  
**Refreshment will be served at 4.15pm**  
**Venue:** EA #06-04, Executive Seminar Room,  
Faculty of Engineering,  
National University of Singapore

### **Abstract**

Ocean energy is a clean energy resource which can be harnessed to support remote island electrification and marine user's energy needs concurrently emphasizing efforts to still preserve the serenity of the ocean conditions. Among various types of energy sources, tidal energy system is becoming a matured technology with high certainty, scalability and availability to support energy needs. However, the ability to meet this potential requires a systematic and integrated approach that is much more than engineering material parts. This is particularly so for hydrokinetic (tidal energy) turbines in the harsh marine environment where developing a technology into an economically sound product for extracting marine energy requires a comprehensive programmed approach that integrates engineering, fabrication, testing, environment assessment and deployment in real world conditions. The presentation will include an outline of the role which test centres and academic institutions can play in collaborative research to help unlock to enormous potential of tidal energy in South East Asia and the Pacific.

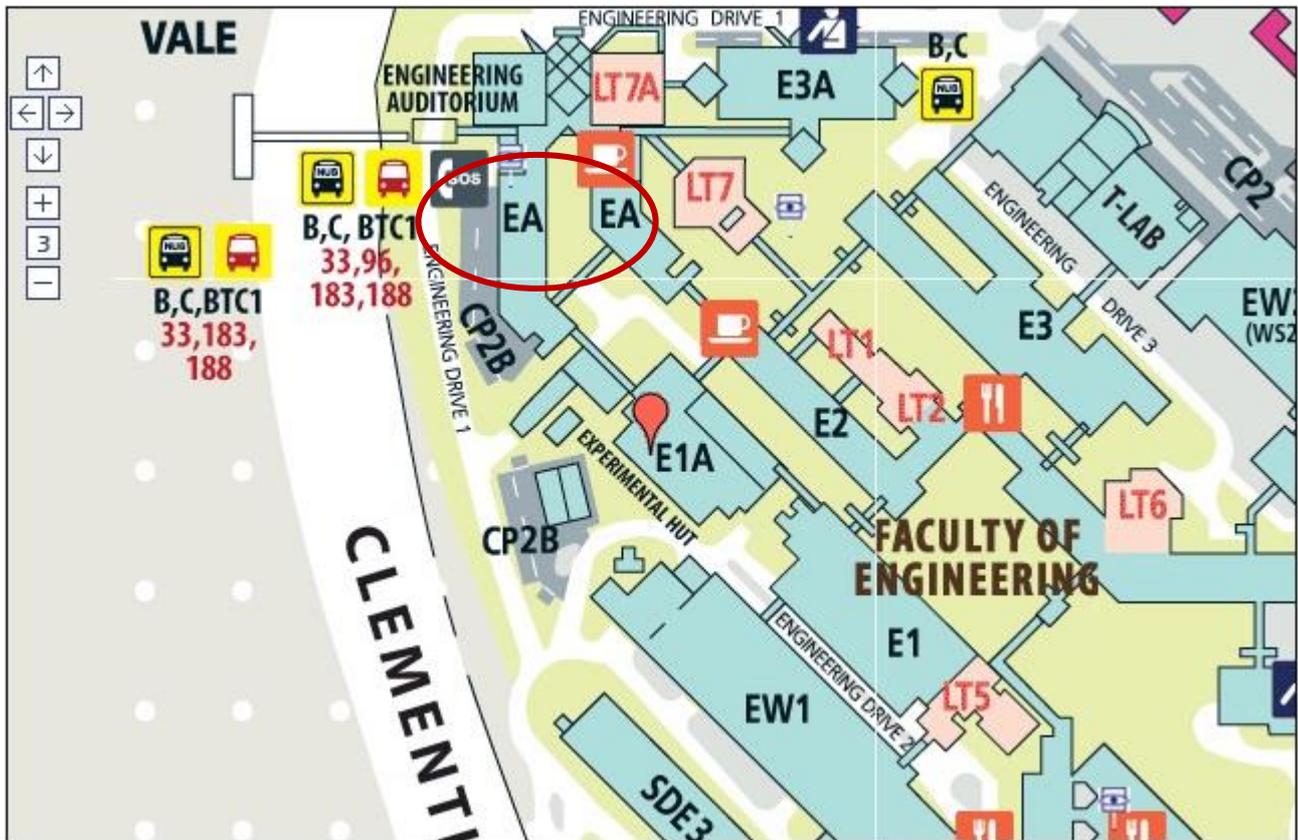
### **About the speaker**



Ravindran has over 10 years' experience in the cleantech and maritime industries. His passion for innovation, research and development for the maritime industry and renewable energy has helped bridge a variety of R&D projects from infancy stage to commercialization stage. He is now the program manager at ClassNK Global Research & Innovation Centre, managing projects related to maritime technologies and marine renewable energy with industry partners in Singapore and globally. He is also the project lead for initiating Tropical Marine Floating Laboratory in Singapore and a member of the International Executive Committee for Ocean Energy Conference 2018.

Contact Person: Assoc. Prof Qian Xudong: 6516 6827, Email: [qianxudong@nus.edu.sg](mailto:qianxudong@nus.edu.sg)  
General Enquiry: Ms. Ivy Poh Tel: 6516 6853, Email: [engpab@nus.edu.sg](mailto:engpab@nus.edu.sg)

## Location



\*\*\*Pre-registration is not required. All are welcome and admission is free\*\*\*