



SMA
Singapore Maritime Academy
SINGAPORE POLYTECHNIC



Centre for Offshore Research
and Engineering
Faculty of Engineering

Technical Talk

Organised by

The Society of Naval Architects and Marine Engineers Singapore

The Joint Branch of the RINA and the IMarEST (Singapore)

Singapore Maritime Academy, Singapore Polytechnic

Centre for Offshore Research & Engineering (CORE), NUS

Wartsila HY, A fully integrated hybrid power module

by



Raymond Tay
Wartsila Marine Power Solutions

Date : 16th Aug 2018, Thursday.
Time : 6:30 pm to 7:00 pm Registration & Refreshment
Talk begins at 7:00 p.m. and ends at 8.30p.m.
Venue: LT18A, Singapore Polytechnic
500 Dover Rd, 139651

To register your attendance, please click the web-link as follows,

<https://www.eventbrite.sg/e/wartsila-hy-a-fully-integrated-hybrid-power-module-tickets-48796845679>



Abstract

The Wärtsilä HY is a fully integrated hybrid power module combining engines, an energy storage system, and power electronics optimised to work together through a newly developed energy management system. It is the marine sector's first hybrid power module of this type produced, thereby establishing a new industry benchmark in marine hybrid propulsion.

Through combining its unique range of in-house competences, Wärtsilä has turned a complex system into an innovative single product that delivers unrivalled and guaranteed performance. The Wärtsilä HY 2 power module is tailor-designed for individual vessel market segments and can be optimized for specific operating profiles, thanks to a new generation energy management system (EMS).

The new EMS represents the latest generation integrated control system, and has been specifically designed for this application. It creates an outstanding means of interaction with the ship's onboard systems.

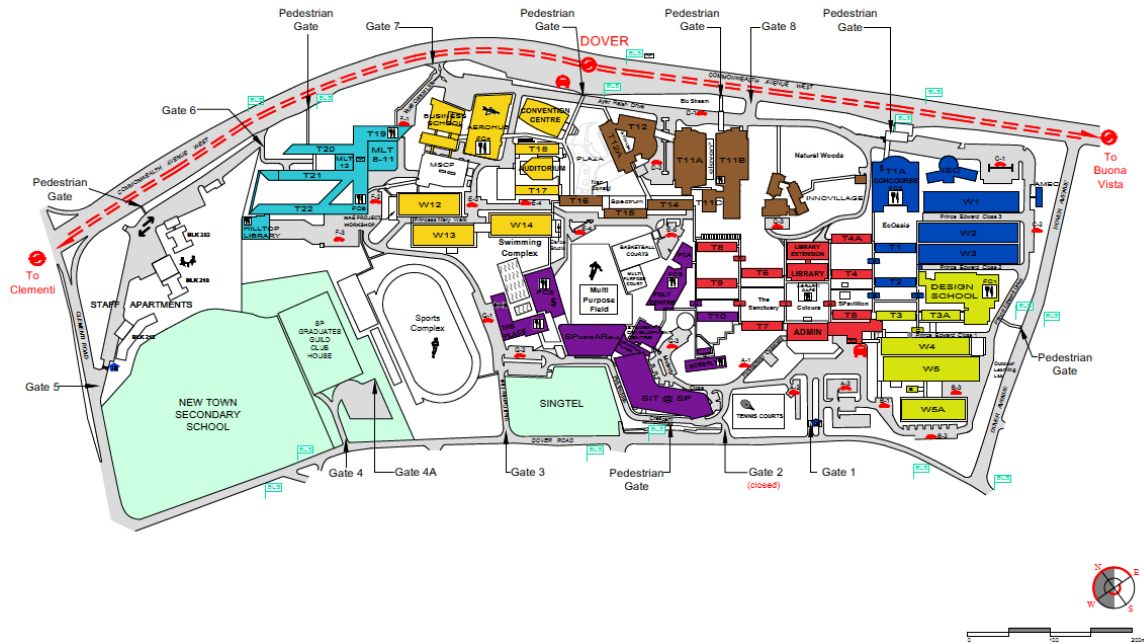
The Wärtsilä HY ensures that the overall vessel performance is greatly improved compared to operating on conventional machinery solutions or hybrid solutions, while the higher level of redundancy promotes increased safety. Other benefits include instantaneous load acceptance with rapid response to step-load changes, entire system certification and guaranteed performance.

About the Speaker

Raymond Tay is a sales professional and has been in Wartsila for 10 years. He started his career in the Singapore office covering the local and regional marine and offshore market with Wartsila's broad range of marine products and solutions ranging from engines, propulsion, electrical and automation. He relocated to Shanghai in 2016 working for Wartsila's Engines business line, gaining much experience and insight in the key shipbuilding country of China. Having most recently moved back to Singapore, he now works for Wartsila's Marine Power Solutions business line as General Manager, Sales Projects, driving sales of the Wartsila HY (short for hybrid) in the new reorganised business setup of Marine Solutions.






Raymond is a graduate of the Faculty of Engineering (Mechanical) of National University of Singapore, and has completed his Master of Business Administration from the Nanyang Business School of Nanyang Technological University. Outside of work, Raymond enjoys spending time with his 2 young boys and lovely wife.

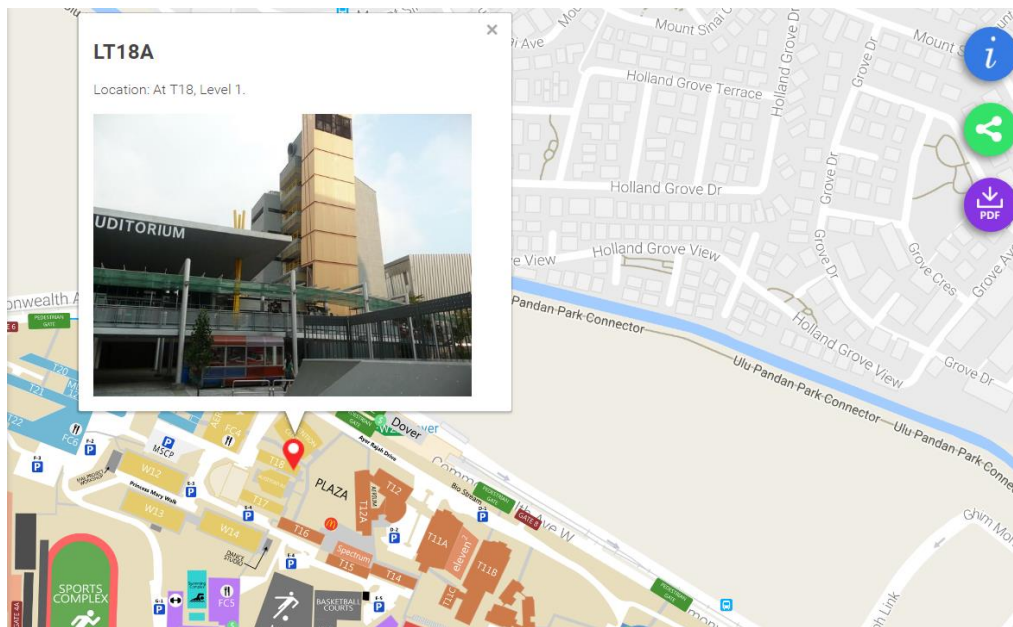
Location Map



SINGAPORE POLYTECHNIC CAMPUS

Website: www.sp.edu.sg Main Line : 6775 1133 Mar 2017

 Guard House
  Carpark
  Taxi Stand
  Bus Stop
  Food Court / Cafe
  ATM



**All members are welcome and admission is free
but early registration is needed.**

No filming or walk-in guest is allowed for this event.

Photos taken by official photographers may be used by the organizers in their publication material