



Technical Talk

Co-Organised by

The Society of Naval Architects and Marine Engineers Singapore

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

Ngee Ann Polytechnic

Transforming the Marine and Offshore Industry through Digitalisation and Industry 4.0

by



Dr. Ang Joo Hock

Senior Manager R&D, Sembcorp Marine Ltd.

Date : 16th January 2020, Thursday
Time : 6:30 pm to 7:00 pm Registration & Refreshment
Talk begins at 7:00 pm and ends at 8.30 pm

Venue: LT 51B, Blk 51 Level 4
535 Clementi Road, Singapore 599489
Ngee Ann Polytechnic

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



<https://www.eventbrite.sg/e/technical-talk-transforming-the-marine-and-offshore-industry-through-digitalisation-and-industry-40-tickets-86085230241>



Abstract

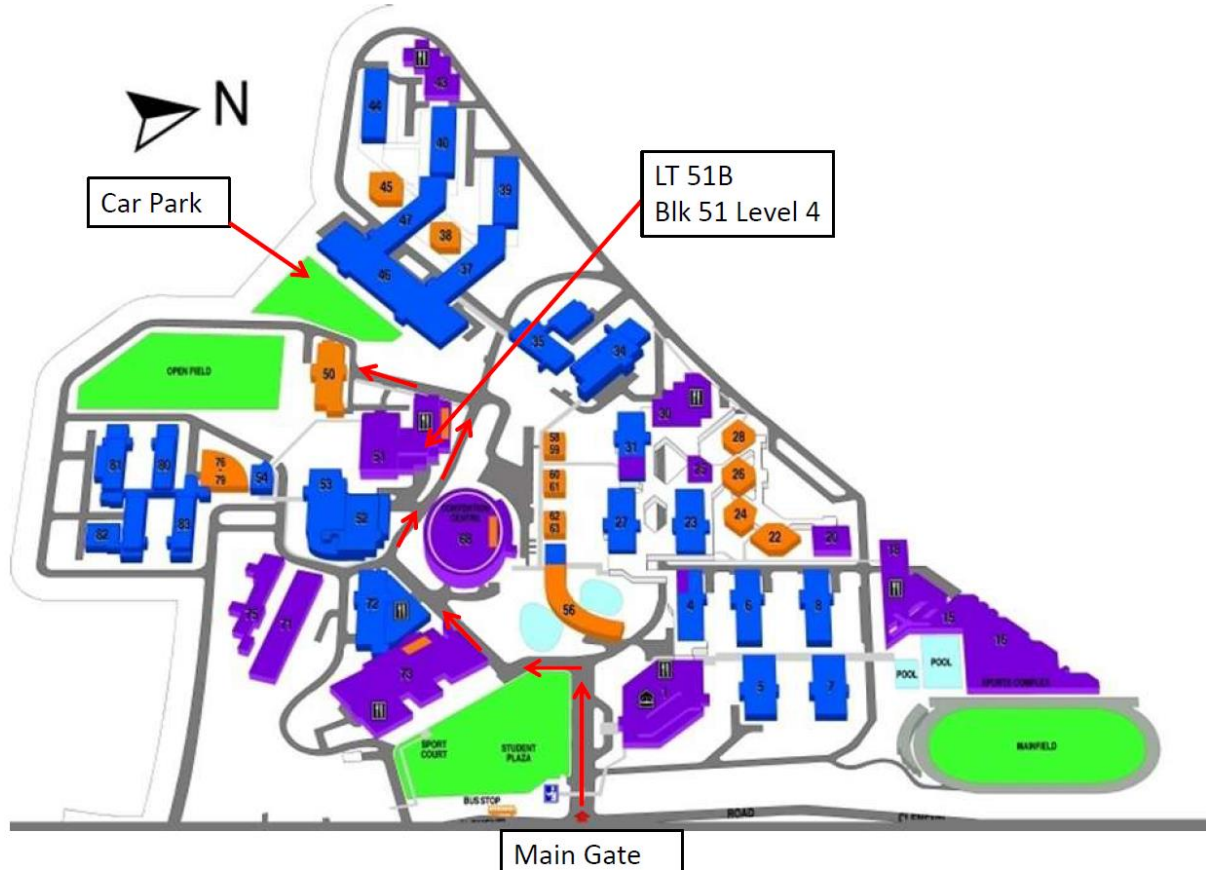
In the face of stiff competition, cost reduction and globalisation, marine industry today require a quantum leap in the entire ship design-and-build process to keep abreast of and to differentiate itself in a marketplace that is fast moving towards digital technologies. Industry 4.0 which promises a paradigm shift from traditional segregated horizontal and vertical value network manufacturing process to horizontal-vertical integration and fully connected manufacturing system is fast gaining worldwide attention. This presentation focuses on three key areas: Firstly, an overview of Industry 4.0 will be presented and how it is transforming the manufacturing industry worldwide. Following which, the concept of Industry 4.0 will be extended to marine and offshore and its relevant applications. Finally, examples of digital manufacturing relating to Industry 4.0 that are implemented in Sembcorp Marine will also be shared. Through digitalisation and cyber-physical integration, it is envisioned that Industry 4.0 can transform the entire design, manufacturing and operation process into an integrated smart product through-life for ships in the near future.

About the Speaker

Joo Hock Ang is currently a senior manager in Research and Development (R&D). He joined Sembcorp Marine (SCM) in 2001 and involved in various functions such as production (hull), project management and engineering design. He is currently leading the development of advanced manufacturing in SCM, which include drones, additive manufacturing, Internet of Things and Industry 4.0. He obtained his BEng (Hons) in Naval Architecture and Ocean Engineering from University of Strathclyde, MSc in Management of Technology from National University of Singapore and PhD in Mechanical Engineering from University of Glasgow.



Location Map



***All members are welcome and admission is free but early registration is required.
No filming or walk-in guest is allowed for this event.
Dress code: business casual.
Photos taken by official photographers may be used by the organizers in their published material.***