

ESTABLISHING A STRONG MARITIME INNOVATION ECOSYSTEM

Time	Programme	Speaker / Panellist
1330 - 1400	Welcome Coffee/Tea and Registration	
1400 - 1410	Welcome Address	Mr Wong Weng Sun <i>Chairman, Singapore Maritime Institute</i>
1410 - 1430	Keynote Presentation: Singapore's Research, Innovation and Enterprise Ecosystem	Dr Cheong Wei Yang <i>Deputy CEO, National Research Foundation</i>
1430 - 1455	Signing Ceremonies: Launch of Maritime Energy and Sustainable Development Centre of Excellence <i>Singapore Maritime Institute & Nanyang Technological University</i> Memorandum of Understanding for Collaboration <i>Nanyang Technological University & Jurong Port Pte Ltd</i> Memorandum of Understanding for Co-operation <i>Shell Eastern Trading (Pte) Ltd & Maritime and Port Authority of Singapore</i>	Witnessed by Dr Lam Pin Min <i>Senior Minister of State</i> Ministry of Transport & Ministry of Health
1455- 1500	Awards Presentation: Top Projects of SMI Research Showcase April 2017	Presented by Dr Lam Pin Min <i>Senior Minister of State</i> Ministry of Transport & Ministry of Health
1500 - 1530	Tea Break	
1530 - 1550	Presentation: Singapore as a Leading Maritime Innovation Centre	Dr Erik W. Jakobsen <i>Managing Partner, Menon Economics AS</i>
1550 - 1610	Presentation: Sea Transport Industry Transformation Map (Innovation)	Mr Kenneth Lim <i>Director, Research & Technology and Industry Development Division and Chief Technology Officer</i> Maritime and Port Authority of Singapore
1610 - 1630	Presentation: NTU Maritime Energy and Sustainable Development Centre of Excellence	A/Prof Jasmine Lam Siu Lee <i>Research Lead, Maritime Energy and Sustainable Development Centre of Excellence</i> Nanyang Technological University
1630 - 1730	Panel Discussion: Establishing a Strong Maritime Innovation Ecosystem Moderated by: Prof Annie Koh Singapore Management University	Mr David Tan , ST Electronics Limited Mr Srinivas Tati , Kongsberg Maritime Pte Ltd Mr Kenneth Lim , Maritime and Port Authority of Singapore Ms Stuti Nautiyal , SimPlus Pte Ltd Mr Alvin Foo , PSA Corporation Limited Dr Erik W. Jakobsen , Menon Economics AS



Keynote Speaker
Dr Cheong Wei Yang
Deputy CEO, National Research Foundation

Dr Cheong Wei Yang is Deputy CEO of the National Research Foundation (NRF) of Singapore. Dr Cheong also serves as a Board member of the Urban Redevelopment Authority and of ISEAS-Yusof Ishak Institute. Prior to NRF, he was Divisional Director, Planning Division in the Ministry of Education (MOE). He has also served as Deputy Director in Ministry of Trade & Industry and Head, Fiscal Strategy Unit of the Ministry of Finance. Dr Cheong was awarded the Rhodes Scholarship in 1999 and obtained his PhD in Economics from University of Oxford.



Speaker & Panellist
Dr Erik W. Jakobsen
Managing Partner, Menon Economics AS

Erik W. Jakobsen is the Managing Partner of Menon Economics, a science based analysis and consultancy firm (see www.menon.no). He is also Professor in Strategic management at The University of Southeast Norway (USN). Jakobsen holds a Ph.D. in Economics and Strategic Management from the Norwegian School of Economics and Business Administration. Jakobsen has extensive research, teaching and consulting experience and has written several books, about strategy, industrial competitiveness and international expansion, including “Attracting the winners – the competitiveness of five European Maritime Industries (Kolofon, 2003). Jakobsen has worked closely with the maritime industry for 20 years, and has been in charge of the report “The Leading Maritime Capitals of the World” since the first edition in 2012.



Speaker & Panellist
Mr Kenneth Lim
Director, Research & Technology and Industry Development Division and Chief Technology Officer Maritime and Port Authority of Singapore

Kenneth Lim is currently the Chief Technology Officer in Maritime and Port Authority of Singapore (MPA), seconded from the Government Technology Agency (GovTech) where his previous role was Cluster Director of the Finance, National Development and Transport clusters. Kenneth has over 23-years of Technology career experience, starting his career as a programmer in PSA, to Vice President Technology Development, Trade & Logistics in CrimsonLogic and Senior Vice President Market Operations and IT in Energy Market Company before joining the public sector in 2011. His professional experience covered sectors in the Sea Port, Logistics IT and Energy industries.

Kenneth has also previously contributed his professional knowledge to various forums, including :

- Head of Singapore delegate to United Nation for Trade Facilitation,
- Council member of Singapore IT Federation (SITF)
- Rule Change Panel Member of the wholesale Electricity Market
- Advisory Council member to e-Commerce and e-Fulfilment
- Steering Committee member of Pan Asia E-Commerce Alliance



Speaker

A/Prof Jasmine Lam Siu Lee

Research Lead, Maritime Energy and Sustainable Development Centre of Excellence
Nanyang Technological University

A/Prof Jasmine Lam is the Principle Investigator of the NTU Maritime Energy and Sustainable Development Centre of Excellence. She is heading Maritime Studies at NTU as the Programme Director. Her major research areas are maritime and port sustainable development. She has been invited by various organisations such as the Organisation for Economic Cooperation and Development, port authorities and banks as a key speaker at international conferences and seminars. Leading a R&D team and working closely with the industry and government agencies, Jasmine has completed over 40 projects and has more than 200 scientific publications including 88 top-tier refereed journal papers. She serves as the editor/board member of 10 international journals, including the flagship maritime journal *Maritime Policy & Management*. She is an Elected Council Member of the International Association of Maritime Economists and also a member of BNP Paribas Chair international scientific committee. Furthermore, Jasmine is the recipient of many awards, including Best Paper Awards, Erasmus Mundus Faculty Scholar Award awarded by the European Commission, and National Day Award from the Prime Minister's Office in Singapore.



Panel Moderator

Prof Annie Koh

Vice President, Singapore Management University

Professor Annie Koh is Vice President for Office of Business Development, Singapore Management University, a Finance Professor (Practice), and Academic Director for two-university level institutes – the Business Families Institute and International Trading Institute.

A notable conference speaker, panel moderator and commentator, Annie is a member of the World Economic Forum Global Future Council on Regional Governance and, a board member of Family Firm Institute, Inc. In addition, she chairs the finance and investment committee of GovTech Singapore Board, and the Asian Bond Fund 2 Supervisory Committee of Monetary Authority of Singapore. She is appointed board member of Singapore's Central Provident Fund since 2012 and serves on the SkillsFuture HR Sectoral Tripartite Committee, HR Certification Taskforce. Annie is also an independent director of k1 Ventures Ltd, and lead independent director of Health Management International Ltd. She also advises a number of startup firms such as JEDTrade, Stashaway and Staff-on-Demand.

A Fulbright scholar, Annie earned her PhD in International Finance from Stern School of Business, New York University (1988). Her research interests are in Family Office and Family Business, Investor Behaviour, Alternate Investments and Enterprise Risk Management. She co-authored *Financial Management: Theory and Practice, An Asia Edition* (2014), and *Financing Internationalisation – Growth Strategies for Successful Companies* (2004), and author of a number of Asian family business cases and survey reports.

Prof Koh is awarded the Singapore Public Administration Medal, Bronze (2010), Silver (2016), and the Adult Education Fellow (2017) for her contributions to the education and public sectors.



Panellist
Mr David Tan
Chief Technology Officer , ST Electronics Limited

Col (Ret) David Tan was the former Brigade Commander for Air Systems Brigade within the Air Defence Systems Division. He is equipped with a Master Controller qualification from the UK and completed the Sanford University-Singapore University Senior Management Program whilst with the Singapore Armed Forces. He was trained and qualified in the USA as a Weapons Systems Officer on board the E2C Hawkeye. Col (Ret) Tan also held key appointments in the Singapore Armed Forces (SAF) as Head Research in the Republic of Singapore Air Force and Deputy Commandant of Singapore Command & Staff College within the SAFTI Institute. Col (Ret) Tan served 28 years with the Singapore Armed Forces before retiring to join the Future Systems Directorate as Concept Director for 7 years. Upon retirement and in the same period, Col (Ret) Tan held the appointment as Head Ops Tech (Info) in DSO National Defense Lab of Singapore where defence R&D projects were initiated.

He was also an Adjunct at the Goh Keng Swee Command & Staff College teaching subject on “Future Command & Control Empowered by Sensemaking Capabilities”. He was a member of the US DoD sponsored Command & Control Research Program (CCRP) for NATO System Analysis & Studies under SAS-085 for generating a conceptual model of C2 Agility that focus on the factors contributing to enhancement of force capability for mission effectiveness under conditions of uncertainty and complexity.

He is currently the Chief Technology Officer of Singapore Technology Engineering Electronic (STEE). He champions sensemaking concepts for business growth. He is currently heading the development of a Digitalisation Space that will contribute to new business verticals and to strengthen core business with digital solution capabilities targeting Future e-Government, next generation of aviation and maritime hubs as well as Homeland Security challenges and Defense business development.



Panellist
Mr Srinivas Tati
Vice President, Sales & Marketing and Global Business Development, Kongsberg Maritime Pte Ltd

Mr Srinivas Tati has been in the Oil & Gas industry for over 25 years and is involved in the complete value chain of the industry from Reservoir management, field development, production, refinery, petrochemicals and now with the maritime industry. He has been with Kongsberg since 2010 in various positions of sales and delivery organization and in the last 2 years, Mr Tati has been in the headquarters in Norway and was also involved in developing the business strategy as part of the business development function for Kongsberg Maritime globally. As part of this function, Mr Tati has worked with the market trends in technology, innovation, analysis and disruptive innovations. In addition, he has been a part of the team to frame the innovation strategy and technology development roadmap within Kongsberg Maritime in the area of autonomous systems and vessels. Digitalization has been a new initiative in Kongsberg group at large and he is involved in the digital strategy towards the maritime industry.

Mr Tati has an engineering background working as an automation engineer and he moved across various functions in an organization with an international experience over 12 years in Canada, Norway, Middle East and Singapore. Currently, Mr Tati has moved back to Singapore to head the sales and marketing in the region and also continuing his activities with the global business development that he has been involved over the last few years.



Panellist
Ms Stuti Nautiyal
Managing Director, SimPlus Pte Ltd

Stuti has a long-standing passion in enabling smarter decisions targeting a Smart Port setup. She has an experience base covering a broad range of areas in the maritime industry, leveraging on domain knowledge and technical skills. Stuti holds a Computer Engineering Degree from Nanyang Technological University, Singapore, and is qualified as a Chartered Financial Analyst.

In 2001 she joined Nanyang Technological University to manage a research project on evaluating new technologies for efficient handling of mega container vessels. The conceptualized simulation platform for port operations later evolved into the flagship product of SimPlus, which she founded in year 2006 with her two research colleagues, tapping on MPA's Incubation Assistance scheme. SimPlus creates tracking and planning solutions powered with real-time and predictive analytics to enable informed decision making in port operations.

As Managing Director at SimPlus, Stuti spearheads strategy and business development, as well as manages key projects undertaken by the company. SimPlus has been actively involved in the seaward and landward aspects of planning for the next generation Singapore Port, and has built itself a prestigious reputation with references spanning across government agencies, port operators, port owners, port consultants as well as contractors. Amongst other accolades, SimPlus has also been the proud recipient of 2 MOT Minister's Innovation Awards, and was among the Emerging Enterprise Finalists in 2011.



Panellist
Mr Alvin Foo
Vice President (ST2 Engineering), PSA Corporation Limited

Alvin Foo began his career with PSA as a mechanical engineer in 1998. He held several managerial positions and has been a Vice President in Engineering since 2014. Alvin possesses degrees in Mechanical Engineering from National University of Singapore and Electrical Engineering from University of Newcastle, Australia.

He has deep expertise in crane control system design, sizing, selection and system integration, particularly in thyristor based AC-DC converter system, IGBT based AC-AC converter and inverter system as well as drive fieldbus communication technology. He is a certified productivity and innovation manager and is highly conversant in Reliability Centred Maintenance. He played a pivotal role in rolling out crane drive upgrading programme as well as crane energy saving system implementation.

He is now a key member of a PSA cross-functional team that is designing a strategic roadmap to ensure its staff is future-ready to handle the increasing complexity in developing and managing a fully automated terminal. Key thrusts include development plans for the acquisition of strategic competencies, adoption of a living lab concept to test-bed and harness new smart technologies with leading industrial partners and collaboration with Institutes of Higher Learning to develop tailored training programs in areas such as systems engineering.

