

Special Event: Moongazers



TAKING OFF: SINGAPORE IN SPACE

FRIDAY, 19 JULY 2019 | 2PM – 6PM

SATURDAY, 20 JULY 2019 | 2.30PM – 6.30PM

SPEAKERS BIOGRAPHIES

Gillian Chin

Project Coordinator at Singapore Space & Technology Association

Gillian Chin is Project Coordinator for Education and Innovation at Singapore Space & Technology Association. Although new to the space industry, Gillian's passion for space stems from the science fiction books and movies she consumed when growing up. She describes herself as someone who wants to learn everything about everything and is always excited to share any newfound knowledge. Having worked with several non-profit organisations to educate the public on topics such as foreign worker issues, animal abuse and art, Gillian now hopes to spread the word about Singapore's space ecosystem and get more people excited.

Simon Gwozdz

CEO and founder of Equatorial Space Industries

Simon Gwozdz founded Equatorial Space Industries in 2017, in a mission to provide frequent and affordable launch services to the New Space community from its highly strategic location in Southeast Asia. Self-taught in the areas of propulsion and orbital mechanics, Simon believes small launchers will enable a wave of innovation akin to the impact of drones on the aerospace sector.

Jonathan Hung

President of Singapore Space & Technology Association

Jonathan Hung is President and founder of the Singapore Space & Technology Association. Earlier in his career, Jonathan was Centre Director for Middle East & North Africa Operations at the Singapore Economic Development Board (EDB) where he led the development of the space incubator unit. He graduated from Embry-Riddle Aeronautical University (ERAU), double majoring in Aerospace Science and Aviation Business Administration. He is the current President of the ERAU Singapore Alumni Group.

Jonathan currently serves on the Board of the Air Transport Training College, Synspective Pte Ltd, Space Generation Advisory Council, International Lunar Observatory Association, and is an ExCom Member of the Japanese Space Agency's Asia Pacific Regional Space Agency Forum. He also serves as Vice-President of the Singapore Institute of Aerospace Engineers (SIAE), Co-Chair of the RSAF Aerospace Technology & Engineering Conference, Advisor to Transcelestial Technologies Pte Ltd, Advisor to NuSpace (an NUS STAR Labs spin-off) and Impact Partner to Hong-Kong based Fresco Capital. Jonathan is a member of Singapore Tourism Board's Conference Ambassador Programme, International Astronautical Federation (IAF) Commercial Spaceflight Safety Committee and Ngee Ann Polytechnic Aerospace Technology Advisory Committee.

Victor Khoo

Senior Deputy Director in Land Survey Division of Singapore Land Authority

Victor Khoo is a Senior Deputy Director in Land Survey Division of Singapore Land Authority (SLA). He received his PhD from Nanyang Technological University (NTU). He is trained in Land Surveying and has worked in diverse areas of Geomatics Engineering, Remote Sensing, GNSS, Cadastral Survey, Mapping and NSDI. Victor is also a Registered Surveyor, registered under the purview of Land Surveyors Act in Singapore. In SLA, he is instrumental in the setting up and the operation of the Singapore Satellite Positioning Reference Network (known as SiReNT) that underpins the usage of Global Navigation Satellite Systems (GNSS) for positioning, surveying and navigation. Currently, he plays key role in the development of Smart Cadastre System and the 3D National Mapping in Singapore.

Bryan Lim

Space Enthusiast and Law student at King's College London

Bryan Lim's avid interest in space has led him to participate in the Space Generation Advisory Council's Space Generation Workshop and Forum in 2019, the UNISPACE+50 conference, as well as the United Nations Committee on the Peaceful Uses of Outer Space. Bryan was a delegate at the 2018 First United Nations Conference on Space Law and Policy and the 70th International Astronautical Congress in 2019. He has taken internships at the Ministry of Foreign Affairs & Culture in Costa Rica, as well as Singapore Space & Technology Association where he worked on and presented a report on Singapore's role in the small satellite industry.

Bryan is currently pursuing his undergraduate studies in Law at King's College London. He was 1 of 40 candidates selected for the 2018 summer course on space law and policy at the European Centre for Space Law out of more than 1000 applicants.

Lim Wee Seng

Executive Director of Satellite Research Centre at Nanyang Technological University

Lim Wee Seng is the Executive Director of Satellite Research Centre, School of Electrical and Electronic Engineering (EEE) at Nanyang Technological University (NTU), Singapore. He oversees the Centre's space programme and manages the University's VELOX-series of nanosatellites.

Prior to joining the University, Wee Seng is a Senior Manager at Renesas where he was responsible for the microcontroller business unit, product marketing and R&D for embedded systems. He graduated from NTU with a Bachelor (Honours) in Electrical and Electronic Engineering in 1996.

Lui Pao Chuen
Advisor, National Research Foundation

Professor Lui Pao Chuen graduated from the National University of Singapore in 1965 with a degree in Science, majoring in Physics. In 1971, he was awarded a postgraduate fellowship by MINDEF. He was elected to go to the US Naval Postgraduate School and graduated with a Master's degree in Operations Research and Systems Analysis in 1973. In 1986, he was made Senior Director to set up the Defence Material Organisation with the amalgamation of the Material Management Organisation and the Special Projects Organisation. After serving the Ministry of Defence (MINDEF) for 41 years with 22 years of service in the appointment as Chief Defence Scientist, Professor Lui retired in 2008.

Professor Lui currently holds several appointments which include the Director of Singapore Technologies Electronics Ltd since 2004, Chairman of Singapore Technologies Dynamics Pte Ltd since 2000, Chairman of Jurong International Holdings Pte Ltd since 2001, Chairman of Sembcorp Design and Construction Pte Ltd since 2006, Chairman and Board of Directors of ATREC Pte Ltd since 2006, and Director of Singapore Technologies Kinetic since 2008.

Luo Sha
Lecturer in Department of Electrical & Computer Engineering at National University of Singapore

Luo Sha graduated from Nanyang Technological University (NTU)'s School of Electrical and Electronic Engineering (EEE) with B.Eng in 2006 and PhD degree in 2011. From July 2006 to July 2007, she was a Research Engineer of the Satellite Engineering Communication Lab at NTU. She is currently a lecturer in the Department of Electrical & Computer Engineering at National University of Singapore (NUS).

Luo Sha's research interests include multilayer planar circuits, microwave filters and millimeter-wave components. She is a reviewer for journals of IEEE Transactions on Microwave Theory & Techniques, IEEE Microwave and Wireless Components Letter, and Progress in Electromagnetics Research.

Mark Lim Jian Wei
CEO and co-founder of Aliena

Dr Lim Jian Wei Mark is CEO and co-founder of Aliena. He holds concurrent appointments as the lead scientist at the Energy Research Institute of Nanyang Technological University (NTU), and is also an adjunct lecturer at the National Institute of Education (NIE).

Mark's expertise lies in various domains of plasma physics. He has over 30 high-impact publications and conference proceedings in various plasma-related topics including nanofabrication, optoelectronic, photovoltaics, high density RF plasma reactor design, autonomous systems and embedded electronics, plasma diagnostics, engineering of space environment systems for performance evaluation of thrusters, as well as design of miniaturised plasma thrusters for space propulsion.

During the pursuit of his PhD in Physics, he was also involved in the commissioning of Singapore's flagship space environment facility and the associated programs for development of plasma thrusters for space propulsion. Mark is a multi-award winning physicist with numerous awards being accolated for excellence in research, mentorship, as well as teaching.

Marvyn Lim Seng**Managing Director and founder of IN.Genius, project leader of GoSpace.sg**

Marvyn Lim Seng holds a Bachelor of Science in Mathematics, Master of Science in Electrical Engineering and a Physics Maitrise in the French Grande Ecole CPE in Lyon. Between 1993 and 1995, he undertook a Master in Science in Computer Engineering at the US Navy Post Graduate School. Lim Seng returned to Singapore from France in 1987 and was posted to Ministry of Defence (MINDEF) to develop the first Air Force Operations Command Centre. He was instrumental in many projects covering aircraft, helicopter, radar and missile, security, space, and notably in the R&D of deep space power generation; space-based solar energy, space guidance and navigation.

Lim Seng is the founder and Managing Director of IN.Genius which conducts near-space experimentations for scientific applications, and is working towards sending the first Singaporean to cross the Armstrong's line into space. He is also the founder and Director of Singapore Astronautics which develops space sciences education and rocket science applications.

Yvonne Lin**Assistant Director, Corporate Affairs at Singapore Space and Technology Association**

Yvonne Lin is the Assistant Director of Corporate Affairs at the Singapore Space & Technology Association (SSTA). With Singapore carving its niche in the space ecosystem, Yvonne believes that there needs to be more conversations about space in Singapore. She is eager to increase the awareness of Singapore's space industry and its surrounding region, allowing others to learn about its advanced developments limitless opportunities. She also looks forward to the advancements that space technology will bring to healthcare devices and treatment methods.

Priyadarshani Majumdar**Space Strategist and Engineer at Astropreneurs HUB**

An entrepreneur and engineer, Priyadarshani Majumdar's endeavour in space started when she designed a satellite telescope for the National University of Singapore's GALASSIA team. She went on to start a company with ex-NASA scientist, Dr Bidushi Bhattacharya, and Satellite Development Engineer, Lih Wei Chia, to explore and develop the space industry. In one of the company's consulting projects, she along with the students of Singapore American School, sent Singapore's very first science experiment to space. Priya is currently a business strategist for Astropreneurs HUB that provides space technology education and is developing proprietary space technology solutions.

George-Cristian Potrivitu**S&T Advisor and co-founder of Aliena**

George-Cristian Potrivitu is the co-founder of Aliena Pte Ltd. He holds a double-MSc in space technology and satellite instrumentation for astrophysics and a BEng in aerospace engineering, and is currently pursuing a PhD scholarship in plasma physics and space electric propulsion at Nanyang Technological University, Singapore.

George gathered experience in the field of plasma propulsion systems while interning at Alta (now SITAEL, Italy) and ISAS/JAXA (Japan), and as a space plasma propulsion engineer at CNRS-ICARE (France). He values

the scientific and commercial importance of plasma propulsion, and is committed to looking for innovative designs that could solve the small satellite market's growing need for thrust solutions.

Lynette Tan

Director and founding member of Singapore Space and Technology Association

Lynette Tan is Director and founding member of Singapore Space and Technology Association (SSTA). Having enjoyed the sciences from a young age, her passion for Earth's final frontier was fuelled by her studies in the United States, where she pursued a Bachelor of Science in Chemical Engineering as well as a Masters in the same field at Stanford University.

Lynette actively promotes women's interest in STEM, and believes in nurturing the interest of youths who are interested to work in the space science and technology industries. She takes pleasure in pushing boundaries, especially in expanding what humans can achieve. Lynette is a strong believer that technology designed for outer space could eventually be used to improve life on Earth.