Hong Kong Electronic Forum 香港電子論壇
How The Application of Third Generation Semiconductor Helps
如何有效地應用第三代半導體

Date 日期	:	28 / 10 / 2021 (Tuesday 星期四)
Time 時間	:	11:00am – 12:20pm
Venue 地點	:	The Forum, Hall 1, Hong Kong Convention & Exhibition Centre 香港會議展覽中心展覽廳 1 "The Forum"
Language 語言	:	English 英語
Remarks 備註	:	Free Admission (Please click HERE to register online) 免費入座「按此」登記

Time 時間	Programme 程序表
10:45am – 11:00am	Registration 登記
11:00am – 11:05am	**MC to kick-start the Forum** **Group photo with organisers, moderator and speakers 代表合照**
11:05am – 11:25am	**Things You Need To Know About Third Generation Semiconductor** Speaker: Prof Kei May Lau, Chair Professor, Photonics Technology Center, Department of Electronics and Computer Engineering, HKUST 香港科技大學電子及計算機工程學系講座教授 劉紀美教授
11:25am – 11:45am	**Development and Applications of Third Generation Semiconductor** Speaker: Dr Daniel Shi, Senior Director, Integrated Circuits and Systems, ASTRI 香港應用科技研究院高級總監，集成電路及系統 史訓清博士
11:45am – 12:05pm	**Latest Development and Application on 5G Antenna** Speaker: Ir. Jacky Leung, CEO, ANTwave Technology Limited ANTwave Technology Limited 行政總裁梁振佳先生
12:05pm – 12:20pm	**Q & A Session** 問答環節 Moderator: Dr. Lau Hing-Keung, George, Assistant Executive Director, VTC 職業訓練局助理執行幹事 劉慶強博士

Organisers 主辦機構:

HKTDC 香港貿發局　　Messe München　　HKEIA 香港電子業商會

Co-organiser 合辦機構:

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Speaker Profile 講者簡介

Prof. Kei May Lau, Chair Professor, The Hong Kong University of Science and Technology

香港科技大學電子及計算機工程學系講座教授 劉紀美教授

Lau is a Chair Professor of Engineering at HKUST. She received the B.S. and M.S. degrees in physics from the University of Minnesota, Minneapolis, and Ph.D. degree in Electrical Engineering from Rice University in Houston, Texas. After a two-year stint in the industry, she joined the faculty of the Electrical and Computer Engineering Department at the University of Massachusetts/Amherst, where she became a full professor in 1993. She joined the regular faculty of HKUST since the summer of 2000 and established the Photonics Technology Center for devoted efforts in compound semiconductor materials and devices.

Professor Lau is a Fellow of the IEEE, OSA, and the Hong Kong Academy of Engineering Sciences. She is also a recipient of the IET J J Thomson medal, OSA Nick Holonyak Jr. Award, IEEE Photonics Society Aron Kressel Award, US National Science Foundation (NSF) Faculty Awards for Women (FAW) Scientists and Engineers (1991) and Hong Kong Croucher Senior Research Fellowship (2008). She served on the IEEE Electron Devices Society Administrative Committee and was an Editor of the IEEE Transactions on Electron Devices (1996-2002) and Electron Device Letters (2016-2019), an Associate Editor for the Journal of Crystal Growth and Applied Physics Letters.

Lau's work is focused on the development of monolithic integration of III-V devices on industry-standard silicon substrates. Lau combines innovation in MOCVD-based growth of hetero-structure materials with insights into both device physics and fabrication to improved device performance, to effective multi-device integration. The benefits of integrating high-performance III-V based devices onto a silicon substrate strongly leverages the enormous capabilities and infrastructure of the Si CMOS industry, extending them to photonic and electronic integrated devices/circuits at high frequencies. She is recognized for her work in heteroepitaxy of III-V photonics (lasers, LEDs and photodetectors) and electronics (millimeter wave, logic and power transistors), as well as GaN LEDs on Si substrates. She also developed LED-on-Silicon (LEDoS) technology for integrating LEDs arrays addressable with a silicon active matrix for augmented reality (AR) and/or virtual reality (VR) applications.

Dr. Daniel Shi, Senior Director, Integrated Circuits and Systems, ASTRI

香港應用科技研究院高級總監，集成電路及系統 史訓清博士

Dr. Daniel SHI is the Senior Director of Integrated Circuits and Systems Technology Division (ICS) of ASTRI. He leads the ICS division to develop its core competencies in 3rd generation semiconductor, IoT and AI for smart city and industry 4.0 related applica tions. Dr SHI is appointed as the Deputy Dir ector of the GBA Committee of China Advanced Semiconductor Industry Innovation Alliance, Co-chair of IEEE International Technology Roadmap for Wideband-gap Semiconductor (ITRW). Dr SHI is the co-author of 5 volumes of literature and has published more than 120 international journal and conference papers. He has 29 granted US and China patents.

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Hong Kong Electronics Fair (Autumn Edition)
香港秋季電子產品展

electronicAsia
國際電子組件及生產技術展

Last Update: 21 October 2021

Ir. Jacky Leung, CEO, ANTwave Technology Limited

ANTwave Technology Limited 行政總裁梁振佳先生

- ➢ CEO of ANTwave to develop breakthrough transparent antenna solution for 5G industry.
- ➢ Former ASTRI team leader for R&D and commercialization.
- ➢ 20+ years experience in technology development.
- ➢ HKIE member and consultant of social service.
- ➢ 10+ International patent inventor.

Moderator: Dr. Lau Hing-Keung, George, Assistant Executive Director, VTC

職業訓練局助理執行幹事 劉慶強博士

Dr Lau joined VTC as Vice Principal of IVE (Tsing Yi) and concurrently Deputy Academic Director (Engineering) in October 2018. He was then posted to IVE (Tuen Mun) as Principal from September 2019 to July 2021. In August 2021, Dr Lau assumes the role of Principal of Youth College (Kwai Chung and Pokfulam) to steer the development of Diploma of Vocational Education (DVE) programmes in VTC. Before joining the VTC, Dr Lau was Head of Science in The Open University of Hong Kong and led academic teams in areas of Testing and Certification, Applied Sciences and Environmental Studies.

Dr Lau was academically trained to be an Electronics Engineer. He received his PhD (specialized in Wireless Communications) from The University of Hong Kong in 1998. Dr Lau has served in various professional bodies and Government organizations, including (i) Chair (2016) of IEEE Hong Kong Section, (ii) Chair (2017/18) of IET-HK Manufacturing & Industrial Engineering Section, and (iii) Member of the Hong Kong Council for Testing and Certification.

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