

ANNEX – BIOGRAPHIES OF PROFESSOR ANDREW LIM AND DR AARON THEAN



Professor Andrew Lim Leong Chye joins the National University of Singapore as Head of the Department of Industrial and Systems Engineering under the Faculty of Engineering on 8 January 2016.

Prof Lim is a recipient of a research grant under Returning Singaporean Scientists Scheme (RSSS), which is funded by the National Research Foundation. He spent more than a decade in Hong Kong and China researching into large scale problems in transportation, logistics, and supply chains. During this period, he held professorships in the City University of Hong Kong, the Hong Kong University of Science and Technology, and Nanjing University.

Prof Lim completed his PhD from the University of Minnesota in 1992, and joined the National Computer Board in 1994. He subsequently joined the NUS School of Computing in 1997.

Prof Lim's research interests are in understanding, modelling and optimising the performance of organisational operations, processes and technologies to achieve high levels of competitiveness critical to the ongoing success of organisations. He draws on knowledge from various disciplines including Computer Science, Operations Research, Management Sciences, and Information Technology.

Prof Lim is one of the most productive scholars in his field. He has published more than 100 articles in high-impact journal, most of which combine computer science and operations research. His work has been published in journals such as *Management Science*, *Operations Research* and *Manufacturing & Service Operations Management*, *Transportation Science*, *Informatics JOC*, *Production and Operations Management*, *Transportation Research*, *EJOR*, and *IEEE Transactions*.

Through a boutique high-tech company that he had founded, Prof Lim spearheaded numerous industry-based research projects. Some of the global companies that he had worked with include HCL-Technologies, Philips Worldwide, Metro Group, Kerry Logistics, IDS International, China Southern, Hisense, HK Mercantile Exchange, Autotoll Limited, and RCG Limited. Most notably, his work on redesigning Philips' global transportation procurement system has enabled the

electronic giant to achieve multi-million dollars in savings, while his work on RFID won the most innovative RFID product award in Hong Kong and Guangdong in 2011.

Among his professional roles, Prof Lim derives the greatest satisfaction as an educator. He relishes the opportunity to work with students at all levels and attracts the brightest students to study with him. His mentorship methods have resulted in remarkable achievements such as guiding his students in winning the International Olympiad in Informatics in 2001 and Association for Computing Machinery (ACM) programming contests, and obtaining strong placements for his graduate students.



Dr Aaron Thean Voon Yew will be joining the National University of Singapore as a Professor of Electrical Engineering in May 2016.

Dr Thean's research interests are in advanced logic and memory devices research, material-device-circuit co-innovation for emerging computational and sensor systems, as well as translating research innovation to technology implementation.

He is currently the Vice President of Process Technologies and the Director of the Logic Devices Research at IMEC, a premier nanoelectronic research institute based in Belgium. As part of an international consortium of major industrial technology companies that includes Samsung, TSMC, Intel, SKHynix, Sony, GlobalFoundries, and Qualcomm, Dr Thean directs the advanced logic devices technology pathfinding research. The research projects target technology horizons that extend from 5 to 15 years out into the future.

Prior to joining IMEC in 2011, Dr Thean was with Qualcomm in San Diego, California U.S.A, where he led the 20nm technology definition. Dr Thean also served as IBM's device manager, where he led the successful development of IBM's first low-power bulk CMOS technology with High-k & Metal Gate technologies at 32nm and 28nm. This R&D work took place at IBM's Semiconductor Research and Development Center in Fishkill, New York, from 2007 to 2009. Prior to joining IBM, Dr Thean was a Senior and Principal Scientist at Freescale Semiconductor and Motorola's Advanced Product Research Laboratory. There, he became the manager of the Novel Device Group in Austin, Texas.

Dr Thean graduated from University of Illinois at Champaign-Urbana, USA, where he received his BSc (Highest Honor), MSc, and PhD degrees in Electrical Engineering. With 14 years of industrial experience in advanced semiconductor R&D, and a Senior Member of the Institute of Electrical and Electronics Engineers, he has published over 200 technical papers and holds more than 50 US patents in the field of advanced electronics.