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As a passionate researcher, educator, trainer, consultant, and Professional Engineer of material science and engineering for more than twenty-seven years, Kuan Yew CHEONG is a full Professor at the School of Materials and Mineral Resources Engineering, Universiti Sains Malaysia (USM), Malaysia. Prof. Cheong served as a Commissioned Senior Scientist at Korea Electrotechnology Research Institute (2004, 2006), Adjunct Associate Professor at Multimedia University, Malaysia (2012), Visiting Lecturer at Universiti Malaysia Perlis, Malaysia (2012), Visiting Professor at National Taiwan University (2018), Visiting Professor at MIMOS Semiconductor Sdn Bhd (2018), Technical Advisor for NTG Innovation Pte. Ltd., Singapore (January – December 2019), affiliated to Innovation Centre for Clean Water and Sustainable Energy (WISE), National Tsing Hua University, Taiwan (November 2018 to October 2021), and Editor of “Materials Science in Semiconductor Processing”, Elsevier (2015 – June 2021). Currently, he is a Technical Consultant of failure analysis for MIMOS Semiconductor Sdn Bhd (Malaysia), Visiting Professor at the State Key Laboratory of Crystal Materials, Institute of Novel Semiconductor Materials, Shandong University, China (Jan 2022 – Dec 2023), Editor-in-Chief of “Materials Science in Semiconductor Processing”, Elsevier (since July 2021), Editor-in-Chief of “Journal of Minerals and Materials Engineering”, USM (since March 2022), Editorial Advisory Board Member of Book Series: “Vacuum and Thin Film Deposition Technologies” (Elsevier) (since 15 April 2024), and Distinguished Lecturer of IEEE Electronic Packaging Society (01 Jan 2024 – 31 Dec 2027). He has published more than 245 high impact-factor journals, 6 reputable book chapters, 5 edited books, and 1 granted Malaysian Patent (MY-153033-A), which are aligned to his research direction of solving environmental and energy related issues through the development of advanced dielectrics for wide bandgap semiconductor devices and of natural organic materials for sustainable electronic devices. His research philosophy was featured in a documentary in paid channel TV, ASTRO AEC (“Stay Hungry Stay Foolish”). As one of the Top 2% for Citation Impact (Applied Physics, Materials) in Single Year 2022 and 2023 by Stanford University, a registered Professional Engineer (Board of Engineers, Malaysia), a “Top Research Scientists Malaysia (TRSM)” (Academy of Sciences Malaysia), and an Accredited and Certified Professional Trainer (HRD Corp., Malaysia), Prof. Cheong has delivered more than 400 technical training courses to various local and multinational industries and resolved many challenging industrial cases related to processing and reliability of electronic materials both wafer and package levels. Currently, Prof. Cheong is a Fellow of The Institution of Engineers Malaysia (IEM), Senior Member of Institute of Electrical, Electronic Engineers (IEEE), a Distinguished Lecturer of IEEE Electronic Packaging Society (EPS), a Principal Interviewer for Professional Interview of IEM, Senior Evaluation Panel of Engineering Program Accreditation under Engineering Accreditation Council, Malaysia, and Founding Chairman of Material Engineering Technical Division under IEM.