



Brief Profile of Trainer

Prof. Ir. Dr. Kuan Yew CHEONG FIEM, PEPC, SrMIEEEE
Editor-in-Chief of Materials Science in Semiconductor Processing (Elsevier)
Distinguished Lecturer of IEEE Electronic Packaging Society



For over twenty-eight years, Professor Kuan Yew Cheong has been a passionate researcher, educator, trainer, consultant, and Professional Engineer specializing in materials science and engineering. He is a Full Professor at the School of Materials and Mineral Resources Engineering, Universiti Sains Malaysia (USM), Malaysia. Professor Cheong holds an extensive record of distinguished appointments, including: Commissioned Senior Scientist at the 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 (Jan–Dec 2019); Affiliate of the Innovation Centre for Clean Water and Sustainable Energy (WISE), National Tsing Hua University, Taiwan (Nov 2018–Oct 2021); Editor of Materials Science in Semiconductor Processing (Elsevier, 2015–June 2021); Visiting Professor at the State Key Laboratory of Crystal Materials, Institute of Novel Semiconductor Materials, Shandong University, China (Jan 2022–Dec 2023); and External Examiner for Xiamen University Malaysia (New Energy Science and Engineering Program, Undergraduate, MSc, and PhD levels) (Feb 2025–Jan 2026). Currently, Professor Cheong serves as: Technical Consultant (Failure Analysis) for MIMOS Services Sdn Bhd, Malaysia; Editor-in-Chief of Materials Science in Semiconductor Processing (Elsevier, since July 2021); Editor-in-Chief of the Journal of Minerals and Materials Engineering (USM, since March 2022); Editorial Advisory Board Member for the Elsevier Book Series "Vacuum and Thin Film Deposition Technologies" (since 15 April 2024); and Distinguished Lecturer of the IEEE Electronic Packaging Society, USA (1 January 2024–31 December 2027). His research focuses on solving environmental and energy challenges by developing advanced dielectrics for surface passivation and modification of wide bandgap semiconductor devices, and natural organic materials for sustainable electronics. This work has resulted in over 250 publications in high-impact journals, 6 reputable book chapters, 5 edited books, and 1 granted Malaysian Patent (MY-153033-A). His research philosophy was featured in the documentary "Stay Hungry Stay Foolish" on ASTRO AEC. Recognized as one of Stanford University's Top 2% Scientists for Citation Impact (Applied Physics, Materials) in both 2022 and 2023, Professor Cheong is also a registered Professional Engineer (Board of Engineers, Malaysia), a "Top Research Scientist Malaysia (TRSM)" (Academy of Sciences Malaysia), and a Certified Professional Trainer accredited by The Human Resource Ministry, Malaysia (HRD Corp). He has delivered more than 500 technical training courses to multinational and local industries, resolving numerous challenging industrial cases related to wafer- and package-level electronic materials processing and reliability. His professional affiliations include Fellow of The Institution of Engineers Malaysia (IEM); Senior Member of the Institute of Electrical and Electronics Engineers (IEEE); Distinguished Lecturer of the IEEE Electronic Packaging Society (EPS); Principal Interviewer for the IEM Professional Interview; Senior Evaluation Panel member for the Engineering Accreditation Council (Malaysia); and Founding Chairman of the IEM Material Engineering Technical Division.