

KEYNOTE TALK 2

GLOBAL ALLIANCE IN EDUCATION AND PROFESSIONAL PRACTICES FOR SUSTAINABLE DEVELOPMENT

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ABSTRACT

Sustainable development is a global challenge that requires collective action and collaboration across sectors and regions. To achieve sustainable development, it is crucial to build global alliances in education and professional practices to facilitate the sharing of knowledge and best practices, build capacity, foster collaboration across sectors, develop common standards and guidelines, promote innovation, and address global challenges. Engineering education has to reshape curriculum and practice to develop green skills which encompass the knowledge, abilities, and competencies required to operate in a green economy.



Lock is the Deputy Chair of the Washington Accord. He is a Professor (Engineering) at the Singapore Institute of Technology (SIT), the 5th government-funded university in Singapore. He is an Emeritus President of the Institution of Engineers Singapore (IES). He served as Chairman of the Engineering Accreditation Board, IES, from 2002 to 2009, leading IES to become a signatory of the Washington Accord in 2006. He successfully mentored the engineering accreditation board in India and Pakistan to gain full-signatory status in Washington Accord. He served as Washington Accord review team member and team chair for review visits to South Africa, South Korea, USA, China and UK. He is currently a WA mentor for BAETE.

Professor Lock has a unique blend of practicing and academic experience acquired through a career which is equally split between the industry and the academia. He is a registered Professional Engineer (Electrical) and has served as a Board Member of the Professional Engineers Board, Singapore for 14 years. He is a Fellow of Academy of Engineering Singapore, an Honorary Fellow of the Institution of Engineers, Singapore and an Honorary Fellow of the ASEAN Federation of Engineering Organizations. He received both his B.Sc. (1975) and Ph.D. (1979) degrees in Electrical Engineering from the University of Strathclyde, UK. He was a faculty at the Department of Electrical Engineering, National University of Singapore for 17 years when he left to set up his consulting practice in 1997. He returned to the academia as a professor in 2016 after 20 years in the industry. He is the co-Laureate of the 2021 WFEO Medal for Excellence in Engineering Education awarded by the World Federation of Engineering Organisations.