

PLENARY TALK 2

FUTURE FOCUSED ENGINEERING EDUCATION, ACCREDITATION AND MOBILITY: SUPPORTING NATIONAL DEVELOPMENT

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ABSTRACT

The Bangladesh engineering profession has had a major role in Bangladesh national development. The World Bank notes Bangladesh has moved from one of the poorest nations at birth to now one of the fastest-growing economies. While celebrating such success, the UN Sustainable Development Goals (SDG) remind us of the significant challenges that lie ahead. The capacity of engineering to meet those challenges will be tested so it will imperative we evolve our profession, recognising our strengths but also accepting our weaknesses and learning from them. Past engineering brought great progress (for some). It did so without accounting for environmental impact, the finiteness of resources and the health, welfare and safety of all humanity. These, and perhaps other issues still emerging, will frame the future. So, in meeting the SDG challenges, we engineers must develop decision tools that avoid creating a future that is a linear extension of poverty, inequality, climate, and environmental degradation, borne heavily and inequitably across the world. This presentation will explore future focused engineering education, accreditation and mobility ideas that seek to build an engineering profession designed to drive a better future for all.



Elizabeth Taylor specialises in governance effectiveness and analysis of complex projects and ecosystems.

Her career has spanned industry, design and construction, and academe. Since 2013 she has focused on analysis of complex engineering projects. Elizabeth has built extensive Board-level leadership in professional organisations and innovative technology entities. Currently she is Chair of SmartCrete Collaborative Research Centre (focused on concrete) and Chair, Washington Accord, and Deputy Chair, Governing Group, of the International Engineering Alliance.

Elizabeth has always engaged in diverse pro-bono work. Currently she is Chair of the Cambodian Childrens' Trust Australia. Previously she was Chair of RedR Australia, an humanitarian response agency, and Chair of RedR International.

Elizabeth is an Officer of the Order of Australia, an Honorary Fellow of Engineers Australia, Fellow of the Australian Institute of Company Directors, Fellow, Academy of Technological Sciences and Engineering and has been recognised as one of Australia's 100 most influential engineers. In 2021 she was awarded Engineers Australia's Peter Nicol Russell Career Achievement Memorial Medal.