

KEYNOTE TALK 4

A GLANCE AT GAPC FROM BOTH SIDES OF THE TABLE

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ABSTRACT

IEA Graduate Attributes primarily concern first, the engineering programs at higher education institutions and second, the evaluators at engineering accreditation organizations. The immediate task for programs is implementation of the attributes into their engineering curriculum whereas accreditors' task is to have a clear mind as to what evidence to look for. Programs must demonstrate adequately and accreditors must evaluate candidly. The burden of proof is on HEIs and accreditors have the responsibility to carry out an equitable evaluation.

This talk aims to provide helpful clues to both parties. The suggested clues are based on a classification of attributes into hard-soft and the required cognitive student skills into knowledge-awareness. Renewed emphasis in the revised IEA-GAPC may be expressed by the keywords: Sustainable Development Goals, creativity, continuous development, broader view, diversity/inclusion, digitization, and automation. This talk indicates how each of these are incorporated in the "knowledge profile" as well as in the "graduate attributes profile." Through specific examples, hints for implementation in an engineering four-year curriculum are given and what may count as evidence for attainment of attributes in student works are offered.



Arif Bülent Özgüler has been with the Electrical and Electronics Engineering Department of Bilkent University, Ankara, since 1986. Professor Özgüler's research interests are in the areas of control theory, game theory, and application of system theory to social sciences. Professor Özgüler is a founding member of MÜDEK (Association for Evaluation and Accreditation of Engineering Programs, Türkiye). He has served as Vice Chair of the Executive Board of MÜDEK in 2007-2010 and as Chair of MAK (Engineering Programs Accreditation Board) of MÜDEK in 2017-2018. Presently he is a member of the Advisory Board of MÜDEK. He is a member-at-large representative for Washington Accord in the Governing Group of International Engineering Alliance.