The Institution of Engineers, Malaysia

United Nations Educational, Scientific and Cultural Organization

In support of World Engineering Day

"THE ROLE OF SUSTAINABLE MATERIALS FOR ENERGY EFFICIENT BUILDING"

Organised by Engineering Education Technical Division

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31 MARCH 2021
WEDNESDAY
5:30PM - 7:30PM

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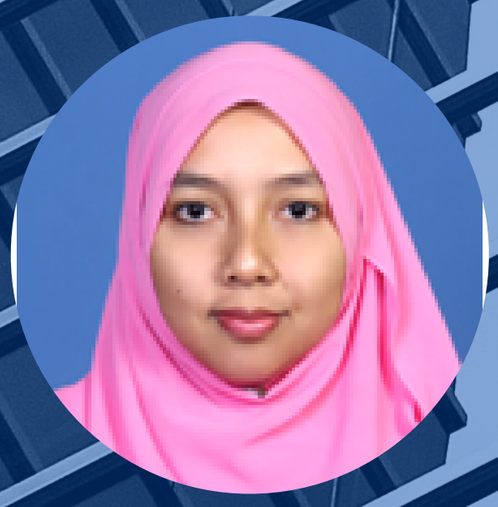

by Dr. Salmia Beddu

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SYNOPSIS

The use of energy in buildings accounts for a large share of the total end use of energy. In sectors such as construction materials that can be utilized both as insulation and structural materials. Efficient structural materials usually residential and the commercial sector a major part of the energy consumption takes place buildings. Buildings, which account for 40% of global energy consumption and greenhouse gas emissions, play a pivotal role in global warming. Energy saving is the most important parameter for energy efficiency. In order to maximize energy saving, more attention should be paid for the selection of appropriate exhibit poor thermal efficiency. Materials used in modern constructions saw an increased focused attention from researchers and engineers in recent times due to their impact on climate change, power consumption and operational cost. Waste and natural products can be used in the construction industry in two ways: by reusing (reuse components) and recycling (processing waste into raw materials used in the production of building materials). Some waste materials such as Coal combustion products (CCP's) and natural fibers has a potential to be used as energy efficient materials due to its characteristics.

This presentation discusses the overall potential of using CCP's and natural fibres as energy efficient building materials to convince for Green Building Index (GBI) requirement for industrial application. Discussion will focus on the potential applications and the findings that has been explored.

BIODATA OF SPEAKER

Dr. Salmia Beddu began her career at Universiti Tenaga Nasional (UNITEN) as senior lecturer in 2012. Her specialization is in the field of Civil Engineering specifically in Construction Materials and Structural Engineering. She has been involved in many impact research, academic writing, teaching, supervision, leadership positions, policy development and community services. She also actively involved in consultancy projects with Tenaga Nasional Berhad (TNB). So far she has successfully involved with 14 projects. She was appointed as Head of Unit Academic program for Bachelor of Civil Engineering.