



Green Buildings: From Materials To Building Envelopes

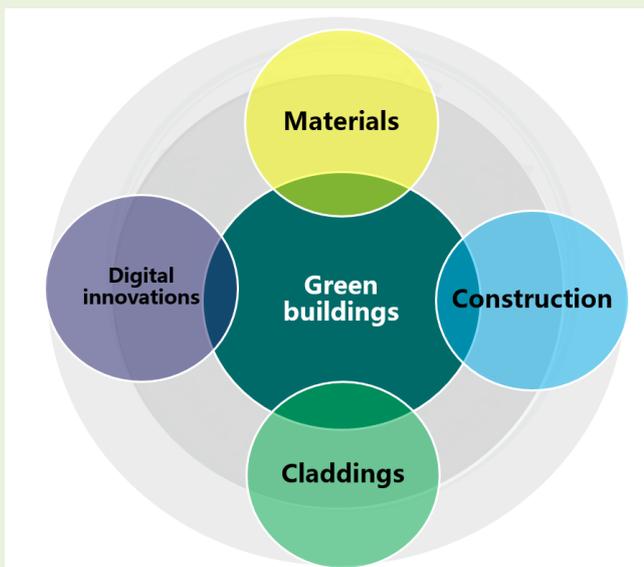
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ABSTRACT

The building and construction industry is responsible for up to 45% of annual energy use and greenhouse gas emission globally, ranking at the top amongst all sectors. It is estimated that over 1/3 of them occurs during the construction stage, e.g. the manufacture of construction materials and construction process; and the remainder is from the operation stage due to the needs of heating, cooling, lighting etc. Our research focuses on the key elements that contributes toward the green buildings, namely, the use of recycled materials, off-site construction as well as the energy efficiency of the building facades. The modern digital technology also brings about many innovations to facilitate the intake of those green technology. How they can be incorporated into and thus shape the construction sector will also be introduced.

Keywords: green buildings, recycled construction materials, off-site construction, energy efficient façade, PSL, BIM



Date: 31 January 2018 (Wednesday)

Time: 11:30 am – 12:30 pm

Venue: Room Z411, 4/F, Block Z,
The Hong Kong Polytechnic
University,
181 Chatham Road South,
Hung Hom, Kowloon

SPEAKER'S BIOGRAPHY

Prof. Jian Yang, Deputy Head and Professor in the Department of Civil Engineering at Shanghai Jiao Tong University, has over 15 years of experience of teaching, research and consultancy at various universities across the world. He is a Fellow of Institute of Civil Engineers (ICE) and a chartered member of the Institute of Structural Engineers (MIStructE). He serves on several international and national professional committees and sits on the editorial boards for 3 international peer reviewed journals. In his present role, he is leading a team of 30 researchers mainly focusing on the research in the field of sustainable building construction encompassing the recycled and newly emerging construction materials, novel construction methods (off-site construction, 3D concrete printing), and green building facades. He is the PI of over 10 grants totaling £ 2.5M and has published over 100 peer reviewed journal and conference papers and won several awards.

*** All Interested Are Welcome ***

For further information, please contact Dr. Dan Tsang at Tel. 2766-6072.

Free admission. Certificates of attendance will be provided to registered participants if they attend the whole lecture.