ASCE GREATER CHINA SECTION 美國土木工程師學會 大中華分會

香港科技大學 THE HONG KONG UNIVERSITY OF SCIENCE AND TECHNOLOGY

土木及環境工程學系 DEPARTMENT OF CIVIL AND ENVIRONMENTAL ENGINEERING

WEBINAR

Utilizing Engineered Wood and Bamboo Products in Building Construction

Speaker

Prof. Ying-Hei Chui

University of Alberta (Canada)
Fellow of Canadian Academy of Engineering (CAE)

Abstract

Decarbonization of building construction has been identified as a major pathway to address global warming. Use of renewable materials, such as wood and bamboo, in place of traditional materials for building construction has attracted the attention of governments and construction industry worldwide that are interested in reducing carbon footprints of building construction. Driven by this world-wide interest in low carbon material and the timely availability of a new generation of high-performance engineered wood and bamboo products, many regions, including Europe, North America and Australasia, have experienced a steady increase in the use of wood products in tall and large buildings and other structures. This presentation will provide an overview of engineered wood and bamboo products that are available commercially, explore the factors that make engineered wood and bamboo viable alternatives to traditional building materials and highlight the construction details of a few selected modern tall wood buildings

Biography

Dr. Ying-Hei Chui is currently Professor and Director of Nasseri School of Building Science and Engineering in Department of Civil and Environmental Engineering at University of Alberta, Fellow of Canadian Academy of Engineering (CAE). Prior to joining the University of Alberta, he was New Brunswick Innovation Research Chair in Advanced Wood Products and Director of the Wood Science and Technology Centre at the University of New Brunswick. Dr. Chui is one of Canada's leading experts in the field of structural and timber engineering, specializing in engineered wood products, timber connections and timber construction. He has over 30 years of research experience and published over 300 articles in refereed journals and conference proceedings in these disciplines. Dr. Chui is actively engaged in building code and design standard development in North America and at the international level. He is member of National Model Code Committee on Climate Change Adaptation of the National Building Code of Canada, and member of a number of CSA technical committees on design of timber structures and wood products. He also chairs ASTM Technical Committee D.07 'Wood' and ISO Technical Committee 165 'Timber structures'.

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Tuesday

6:30pm-7:30pm

In person: LT-F (Lift 25/26) HKUST (Clear Water Bay)
Online: Zoom Webinar

Registration Required (both in-person and online):

1-hr CPD certificate can be provided.

Coordinator:

Prof. Yuxin Pan | Director of ASCE GCS
ceypan@ust.hk

Zhengwei Chen | Secretary of ASCE GCS
zhengweichen@ust.hk