

Research Seminar

by

Dr. Y.X. Zhang

Senior Lecturer, School of Engineering and Information Technology, the University of New South Wales, the Australian Defence Force Academy, Canberra, ACT, Australia

Abstract: In this research seminar, Dr. Zhang will introduce her recent research work in Structural Engineering with a focus on a research work completed recently on the numerical modeling of FRP reinforced concrete beams at ambient and fire conditions. She will also introduce briefly another major research work she and her research group have been doing, which is on the impact responses of hybrid-fibre engineered cementitious composite (ECC) panels.

Brief Biography of Dr. Y.X. Zhang

Dr. Zhang is a Senior Lecturer in School of Engineering and Information Technology in the University of New South Wales at the Australian Defence Force Academy (UNSW@ADFA). Before she joined in UNSW@ADFA, she held the position as an Assistant Professor and lecturer in other campus of the University of New South Wales (UNSW). She gained intensive research experience as a postdoctoral research fellow in UNSW, the University of Queensland of Australia, Pohang University of Science and Technology in South Korea after completing her PhD in the University of Hong Kong in 2001. She obtained her Bachelor degree and Master degree in Engineering Mechanics from Tianjin University, China in 1992 and 1995. She was awarded the Postgraduate certificate for Higher Education by the University of New South Wales in 2007.

Dr. Zhang's main research areas are advanced finite element methods and nonlinear finite element analysis and modelling of composite materials and structures used in a variety of areas including aerospace, mechanical and civil and biomechanical engineering. Till now, she has published over 80 scholarly research papers including 4 book chapters and research papers published in leading International journals and conferences.

She is a member of the International Association for Computational Mechanics, Institute of Engineers, Australia, and Australian Composite Structures Society and International Institute for FRP in Construction. She is the Associate Editor of an International journal entitled as Recent Patents in Mechanical Engineering and has been a frequent reviewers for more than 10 leading International journals.