



Department of Civil Engineering and Engineering Mechanics
Columbia University

Tuesday, November 15, 2011 (2:30-3:30 pm)

644 Mudd

**FRP COMPOSITES IN CONSTRUCTION:
AN OVERVIEW OF RESEARCH ACTIVITY AT
THE UNIVERSITY OF HONG KONG**



Dr. S.T. Smith

*Department of Civil Engineering
The University of Hong Kong
China*

(Host: Prof. Huiming Yin)

The application of composite materials such as fibre-reinforced polymers (FRPs) to rehabilitate existing civil infrastructure has experienced considerable research activity over the past two decades. As a result, guidelines have been written around the world which has enabled FRP-strengthening works to be designed and installed in ever increasing numbers. Despite such progress though there are still knowledge gaps which are impeding more widespread application of the FRP strengthening technology. This presentation will deliver an overview of current popular research topics in addition to research needs and opportunities in the field. Research currently being conducted at the University of Hong Kong pertaining to the application of FRP composites to concrete, metallic and timber construction materials will also be discussed.

Biosketch

Scott Smith is an Associate Professor in the Department of Civil Engineering at The University of Hong Kong, China, and is currently on sabbatical leave at Columbia University. He graduated BE (Civil Engineering) (1994) and PhD in Structural Engineering (1999) from The University of New South Wales, Sydney, Australia, and he is a Fellow of the Australian Institution of Engineers. His research interests include the strengthening and repair of reinforced concrete, metallic and timber structures; and sustainable development of the built environment. He has published widely in the strengthening field and has won several research awards from professional institutions around the world. Additional details about the speaker can be found at <http://web.hku.hk/~stsmith/>

<http://www.civil.columbia.edu>