

# FCE Distinguished Lecture

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## A Holistic Approach To Energy Efficient Building Systems by Professor Chimay J. Anumba

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 The Pennsylvania State University, USA

**Date:**  
 3 Dec 2012 (Monday)

**Time:**  
 6:30pm – 8:00pm

**Venue:**  
 Senate Room, 16/F, Li Ka Shing Tower,  
 The Hong Kong Polytechnic University

### Abstract

Buildings are known to account for about 40% of the energy use in most industrialized countries and it is estimated that people spend 80–90% of their time in buildings - residences, offices, factories, schools, places of worship, public amenities, recreational facilities, etc. This makes it important that energy use in buildings is considered an important component of efforts geared towards addressing the world's energy crisis. This lecture will argue that solutions that focus solely on supply-side aspects of the energy problem need to be complemented by demand-side efficiency initiatives. It will discuss the holistic approach being adopted in the new US Department of Energy-funded \$129m innovation hub for energy efficient buildings, which is led by the Department of Architectural Engineering at Penn State University. The key tasks being undertaken as part of the project will be described as well as their broader implications. Particular attention will be paid to the role of IT and integrated project delivery strategies in developing a holistic approach to the next generation of energy efficient building systems.

### About the Speaker

Prof. Chimay J. Anumba is a Fellow of the Royal Academy of Engineering. He holds a Ph.D. in Civil Engineering from the University of Leeds, UK; a higher doctorate – D.Sc. (Doctor of Science) - from Loughborough University, UK; and an Honorary Doctorate (Dr.h.c.) from Delft University of Technology in The Netherlands for outstanding scientific contributions to Building and Construction Engineering. His research interests are in the fields of advanced engineering informatics, concurrent engineering, knowledge management, distributed collaboration systems, and intelligent systems. He has over 450 scientific publications in these fields and his work has received support worth over \$150m from a variety of sources. He has also supervised more than 40 doctoral graduates and mentored over 20 postdoctoral scholars. He is a Chartered Engineer and Fellow of the ICE, IStructE, ASCE and CIOB.

### All Interested Are Welcome

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