



Boston Society of Civil Engineers Section
American Society of Civil Engineers



STRUCTURAL
ENGINEERING
INSTITUTE
Boston Chapter

Kingdom Tower - A Megatall Building

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Wednesday, February 10, 2016

Northeastern University, Behrakis Health Center, Room 010, 30 Leon Street, Boston, MA

(Accessible by Green Line (E) via Northeastern Station and Orange Line via Ruggles Station)

6:00 PM Registration, Social and Pizza; 7:15 PM Presentation

Megatall buildings are currently defined by the Council on Tall Buildings and Urban Habitat as those reaching the height of 600m or higher. While many such towers have been proposed over the years, it has only been within the past decade that four megatalls have finally come to fruition: Burj Khalifa (Dubai), Shanghai Tower (China), Mecca Royal Clock Tower (Saudi Arabia), and Ping An Financial Center (China). The one-kilometer tall Kingdom Tower in Jeddah, Saudi Arabia which is currently under construction will become the world's tallest building when completed. As with all tall buildings, the most important drivers for various engineering solutions are: performance under environmental wind and seismic lateral loads; foundations; structural materials; construction efficiencies and scheduling; architectural shaping; internal planning; usage; and aesthetics. For megatalls, however, the importance of these drivers becomes more pronounced to the point that the structural demands on the architecture and planning usually become the critical factor in the success or failure of the project. This presentation will focus on the planning and design of the Kingdom Tower; but, will also discuss relevant aspects of other recent Megatall buildings.

This event is co-hosted by Northeastern University's Graduate Structural Engineering Association, ASCE Student Chapter and Student Government.

Registration Deadline: Friday, February 5, 2016

\$20 Members, \$25 Non-Members

\$15 Public Sector Members, \$20 Public Sector Non-Members

\$5 Student Members and Senior Members (65+)

Northeastern University Student Members No Charge

Information/Registration:

Register to attend this meeting and pay by credit card online at <http://bit.ly/SEI-2-10-15>. To register online for an event at the BSCES member rate you must login using your BSCES assigned username and password. If you do not know your BSCES member login information call 617/227-5551. You can also register for this event by mail or email. To do so, download and complete a [BSCES Event Registration Form](#) and follow the submission instructions. Cancellations received after Registration Deadline February 5, 2016 and no-shows will be billed.



This presentation provides 1.0 Professional Development Hours (PDH)

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