

## **ACRECONF INDIA 2012:**

Paper Title:

### **Challenges to Elevating Tall Buildings**

Bio data:

*TAK Mathews is a Chartered Engineer with over 22 years experience in the elevator & escalator industry. He is a member of the International Association of Elevator Engineers and is one of the World's first Qualified Elevator Consultants. Mathews is a member of the P4 working panel of the ET25 committee of the Bureau of Indian Standards. He is the founding trustee of the Elevator & Escalator Safety Trust, a Trust set up to train users and particularly children on how to safely use elevators and escalators. Mathews is the Principal Consultant at TAK CONSULTING who are independent vertical transportation consultants.*

Abstract:

*While Man has always had tall ambitions, tall buildings became viable only after the invention of the safe elevator in 1853. Since then there has been a constant race to break the tallest building record.*

*In the Indian context, till the better part of the last century the Qutab Minar defined the country's tall ambition. Yet over the last couple of years the trend has been rapidly changing. From two 40+ floor buildings till a decade back to 40+ floor buildings coming up all over the country, not to mention the 70+ and 100+ floor buildings that have been announced, the Indian skyline is poised to change dramatically.*

*This paper focuses on the lifeline that converts structures into viable buildings. The paper will identify the challenges involved in elevating tall buildings and recommends possible solutions and approaches to address these challenges. The recommended solutions will include the technological advancements that make taller buildings practically and economically viable.*