



IEEE Power Energy Society (PES) Technical Seminar

Smart Power Grid in the 21st Century

Prof. Akhtar Kalam

Head of Engineering, Leader – Smart Energy Research Unit, College of Engineering and Science, Victoria University, Australia

Monday, the 22nd August 2016, 5.00pm to 6.30pm, at RMIT University (City Campus)

Abstract:

Smart energy is the application of digital information technology to optimize the electrical power system. The smart grid is the product of applying smart energy technology to electrical power delivery and generation. Smart energy technologies are beginning to transform the power network into a smart grid capable of meeting 21st century economic, security and environmental challenges. But the smart grid still faces hurdles, in particular the need for extensive field testing to prove new energy systems and regulatory reform to remove financial disincentives to adopting new technologies.

A host of new smart energy devices and systems are emerging that can take pressure off overloaded grid infrastructure and power costs, dramatically improve grid reliability and security, and accelerate the growth of cleaner power generation. Smart energy is defined as the application of digital information technology to optimize electrical power generation, delivery and end use. The smart grid is the product of applying smart energy technology to systematically optimize power delivery and generation. This presentation will overview a number of smart energy technologies and how they are beginning to transform the electrical power network into a smart grid capable of meeting 21st century economic, security and environmental challenges.

Biography of the presenter



Prof. Akhtar Kalam has been at Victoria University since 1985 and was a former Deputy Dean of the Faculty of Health, Engineering and Science for 7 years.

He has wide experience in educational institutions and industry across four continents. He received his B.Sc. and B.Sc. Engineering from Calcutta University and Aligarh Muslim University, India in 1969 and 1973 respectively. He completed his MS and Ph.D. at the University of Oklahoma, USA and the University of Bath, UK in 1975 and 1981 respectively. He has worked with Ingersoll Rand and other electrical manufacturers. He has held teaching appointments at the University of Technology, Baghdad, Iraq and Capricornia Institute of

Advanced Education, Rockhampton, Queensland.

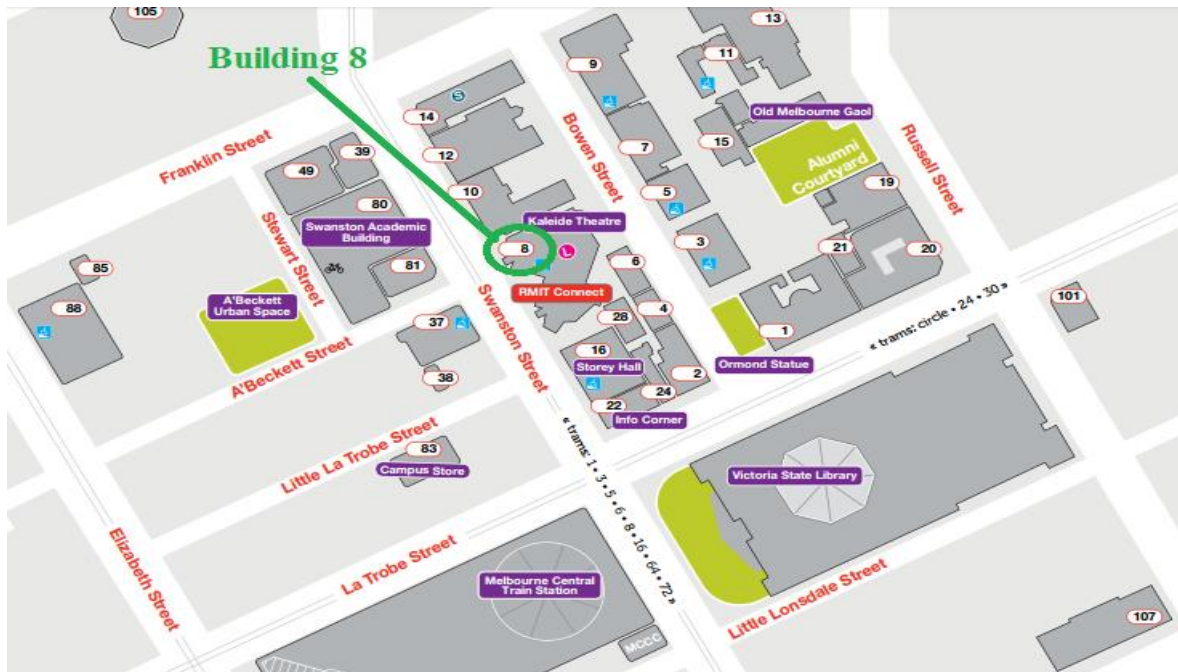
He is regularly invited to deliver lectures, work on industrial projects and examine external thesis overseas. His major areas of interests are power system analysis, communication, control, protection and cogeneration systems. He has been actively engaged in the teaching of Energy Systems to undergraduates, postgraduates and providing professional courses to the industry both in Australia and overseas. He regularly offers professional development courses on Power System Protection, Renewable Energy and Cogeneration & Gas Turbine Operation to the Energy Supply Association of Australia (ESAA) and Australian Power Institute (API).

Registration: Members and visitors are welcome, registration at <http://pesvicaugust.eventbrite.com.au>

Date and Time: Monday, the 22nd August 2016, 5.30 pm (refreshments served at 5.00 pm). Duration approximately one hour, followed by question time.

Venue: Building: 008, Level: 08, Room: 024, Swanston St, RMIT University.

Location Map:



For enquiries about this event, please contact Pes.victorian@ieee.org.