

**IEEE –  
Power & Energy  
Society**

**Tuesday  
October 28**



THE INSTITUTE OF ELECTRICAL AND ELECTRONICS ENGINEERS, INC.

**San Francisco Chapter Presents:**

# **Managing & Controlling Transmission Grids using Advanced Technology**

## **DATE & TIMES**

*Tuesday, October 28, 2008  
12 p.m. – 1 p.m.*

## **PLACE**

*Pacific Gas & Electric Office  
77 Beale St.  
Room 323  
San Francisco*

*Check in with guard to verify  
your name on IEEE PES list*

## **INFORMATION**

*Closest BART Station is  
Embarcadero*

## **RSVP REQUIRED**

*RSVP by October 27, 2008 to:  
Anupama Pandey  
415-369-1096  
apandey@nexant.com*

## **LUNCH**

*Free for IEEE members  
\$5 for non-members  
RSVP required*

The electric power system is one of the most complex machines, human beings have ever built. Among the recent issues that arise from this complexity are inadequate power flow control, inadequate reactive power management, and occasional power angle and voltage instabilities. In addition, we have inadequate training for planners/operators and inefficient use of collected data, etc.

Dr. Edris will present a number of advanced technological tools that have been developed and applied to utility transmission grids, to address these issues and resolve many of the transmission grid complexities. The presented technological concepts address thermal capacity of transmission circuits and substation equipment, power flow control, reactive power management, and increased robustness and integrity of transmission grids.



Abdel-Aty (Aty) Edris was born in Cairo, Egypt. He received his BS with honors from Cairo University, his MS from Ain-Shams University, Egypt, and his Ph.D. from Chalmers University of Technology, Sweden. Dr. Edris spent 12 years with ABB Company in Sweden and the USA in the development and application of Reactive Power Compensators and High Voltage DC Transmission systems. In 1992, Dr. Edris joined EPRI as the Manager of Flexible AC Transmission System (FACTS) Technology.

Dr. Edris is a Senior Technology Manager of EPRI Power Delivery and Utilization and a member of several IEEE and CIGRE Working Groups. He has received multiple EPRI Performance Recognition Awards, the EPRI Technical Excellence Award, and the EPRI Chauncey Award. He was also a recipient of the 1996 R&D 100 Award. In 2006, Dr. Edris was the recipient of the IEEE Award for Industry Leadership and Scientific Contribution to FACTS Technology, pioneering the transformation of the electric transmission system into a flexible, controllable, yet secure system operated at thermal capacity.