

IEEE Palouse Section Meeting October 16, 2008

Dear IEEE Member: You are invited to the Palouse Sections meeting

Speaker: Dr. Anjan Bose, Regents Professor
Distinguished Professor of Electric Power Engineering
School of Electrical Engineering and Computer Science
Washington State University

Presentation: What is a Smart Power Grid, and why do we need one?

When: Thursday, October 16, 2008
6:00 PM – Social with Pizza
6:30 PM – Presentation

Where: Rms 101 & 119 in the ETRL (Engineering Teaching Research Lab), WSU

Map: <http://www.campusmap.wsu.edu/campus-map/FULL/quadrant-13.html>

Abstract

A smart power grid is one that is equipped with a much higher level of measurements, communications and control that enables its operation with higher reliability and efficiency. The ability of fast automatic controls can avoid blackouts while increasing the level of power transmission. The availability of more information can allow customers to make better utilization of electricity during periods of cheaper rates. The presentation will outline how to install the new sensors (phasor measurement units), high bandwidth communications (optical fiber) and more controllers (FACTS devices) to implement the smart grid. It will also outline the new control applications that can be supported by such a smart grid and their advantages.

The Speaker:

Anjan Bose is a Regents Professor and the Distinguished Professor of Electric Power Engineering at Washington State University in Pullman, Washington, where he also served as the Dean of the College of Engineering & Architecture from 1998 to 2005. Dr. Bose is a Member of the US National Academy of Engineering, a Foreign Fellow of the Indian National Academy of Engineering and a Fellow of the Institute of Electrical & Electronics Engineers (IEEE). He was the recipient of the Outstanding Power Engineering Educator Award, the Third Millennium Medal, and the Herman Halperin Electric Transmission & Distribution Award from the IEEE. He was appointed by the US Secretary of Energy on the committee to study the 1999 and 2003 power blackouts. He has served on several committees of the US National Academies including those for Engineering Education, Cybersecurity Research and Power Grid Security. He has consulted for many electric power companies and related government agencies throughout the world.

RSVP to Greg Donohoe: gdonohoe@ieee.org