



# The Institute of Electrical & Electronics Engineers IEEE

## The Power Chapter Dinner Meeting: SMART GRID TRENDS IN INTEGRATED POWER SYSTEM PROTECTION AND CONTROL

by  
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POWER Engineers, Inc., Clarkston, WA

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**Meeting: Friday, October 26<sup>th</sup>, 2012**

**Cork 'N Hearth Restaurant: Route 20, Laurel Lake, Lee, Massachusetts, 01238  
(413-243-0535)**

**Cocktails: 6:00 pm                      Dinner: 7:00 pm                      (Presentation after dinner)**

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Smart Grid. The concept has been in the broad media for several years. The vision is that informed consumers, networked appliances, and wise regulators will combine forces with millions of specialized meters to move mountains and fill valleys in our energy-use demand profile. Upstream from the media spotlight, toiling in relative obscurity, utility engineers are part-way through a power system controls conversion powered by technical advances in computing and communication. This conversion is improving utility operators' system visibility. As our work continues, increasingly integrated devices, substations, and controls will lead to more efficient and fault tolerant electric power networks.

This presentation will briefly look back over three decades of advances made in power system protection and control implementation, advances enabled by cost reduction and performance increases in computing and communications. After discerning the direction and momentum of our motion to the present, we'll look ahead, examining the implications for electric power system protection and control in the future. We'll also imagine how these changes could impact the basic architecture of the power system, permitting a transition from central station generation and bulk transmission to a more robust and efficient decentralized network of locally-controlled sub-grids.

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John J. Kumm is with POWER Engineers, serving as Business Unit Director for SCADA and Analytical Services. John graduated from the University of Idaho in 1989 with a BSEE and earned an MBA from Boise State University in 2011. John joined Schweitzer Engineering Laboratories in 1989 and held several application engineering and product engineering positions. In 1999, he founded System Protection Services, a consulting engineering firm specializing in protection scheme design, protective relay applications, and protection communication systems. In April, 2007, SPS became part of POWER Engineers, Inc, where John held Project Manager and Department Manager roles prior to his present position. John is a member of IEEE Power Engineering and Industry Applications Societies and a registered professional engineer in several states and Canadian provinces.

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Dinner Menu: **Chicken Piccata, Baked Scrod, or NY Strip Steak**  
(Price for IEEE members and one guest: **\$20, \$20, or \$22/person, Non-members:\$36, \$36, \$40/person**)  
**(No dinner: FREE)**

Please make reservations by Monday, October 22<sup>nd</sup>, 2012 (make checks payable to IEEE Berkshire Section.)

For reservations and inquires, contact:

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