You are invited to an IEEE Meeting on Thursday, November 15, 2007

Talk Title: "Industrial Plant Adaptive Load Shedding: Beyond PLC Control"
Speaker: Greg Rauch, Field Sales Engineer, Schweitzer Engineering Laboratories, Inc.
Date: November 15th, 2007
Time: No-host social at 5:30 pm; Presentation at 6:15 pm; Dinner at 7:15 pm; Presentation continues at 8:00 pm
Place: Marie Callender's Restaurant - The Garden Room; 2090 Diamond Blvd in Concord (near the Concord Hilton Hotel). Call 925-827-4930 if you need directions.
RSVP: Please make reservations by November 14, by contacting Gregg Boltz at email: gboltz@brwnca1d.com or telephone: (925) 210-2571
Cost: The cost of dinner is $20 for IEEE members; $25 for non-members.

Meeting Description:
The November 15th meeting of the Industry Applications Society for Oakland East Bay Section will feature a talk entitled "Industrial Plant Adaptive Load Shedding: Beyond PLC Control". The speaker will be Greg Rauch, Field Sales Engineer, Schweitzer Engineering Laboratories, Inc.

Industrial plants with an electric utility interconnection and on-site generation resources include a wide variety of electric loads, ranging from less critical lighting and HVAC, to most critical processes and process controls. When the utility interconnection is compromised, on-site generation is expected to maintain critical loads in order to mitigate economic consequences of loss of finished product, and potentially hazardous environmental impacts. The speed with which the plant system adapts to restricted generation resources is critical to the overall success of maintaining important process loads during a reduction or loss of utility supply.

Protective relays are an absolute necessity in all medium voltage and above power systems. These relays are, therefore, a logical base of electronic devices upon which a power management system can be built. Modern protective relays include all the I/O, programmability, data collection, metering, and power system diagnostics that previously required the integration of RTUs (Remote Terminal Units), PLCs (Programmable Logic Controllers), DFRs (Digital Fault Recorders), transducers, meters, and multiple single-function protective relays.

Modern power management systems are a complete integration of an installed base of protective relays, remote I/O modules, wide area control systems, communications, monitoring, and engineering toolsets. This presentation describes the design of a fully integrated power management system as applied in a large oil refinery.

About the Speaker:
Greg Rauch is a Field Sales Engineer with Schweitzer Engineering Laboratories, Inc. He graduated from Brigham Young University with BSEE and Masters of Power Engineering degrees. His professional career includes positions held with General Electric, EPRI, BMI and a consulting research firm. Past assignments include protective relay application engineer, power quality and EMF research project manager, Asia-Pacific regional manager, and international marketing manager. He is a life member of Eta Kappa Nu, Senior Member of IEEE, and California registered professional engineer. On a lighter note, he is an FCC licensed amateur radio operator, callsign N6CK.

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