

You are invited to an IEEE Meeting on Thursday, May 13, 2010



Title: " **Approaches to Arc Flash Hazard Mitigation** "

Speaker: **Gary H. Fox, Senior Specification Engineer, GE Industrial Solutions**

Date: May 13, 2010

Time: No-host social at 5:30 pm; Presentation at 6:15pm; Dinner at 7:15 pm;
Presentation continues at 8:00 pm; Adjourn by 9:00 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 May 12, by contacting Gregg Boltz at
email: gboltz@brwncald.com or telephone: (925) 210-2571

Cost: The cost of dinner is \$20 for IEEE members; \$25 for non-members.

Summary:

This evening there will be two presentations related to Arc Flash Hazard Mitigation:

1. Advanced breaker trip unit technologies, including zone selective interlock, maintenance mode, and enhanced time current curve adjustment options can limit let-through energy and reduce arc flash hazards without compromising system selectivity. This presentation will illustrate through a case study approach the amount of arc flash incident energy reduction that might be realized at typical low voltage unit substations.
2. The predominant technologies for reducing arc flash incident energy today rely on the speed of protective devices, remote operation, arc-resistant enclosures that channel energy where it is less dangerous, and crowbars to divert the arc energy into a bolted fault. None of these methods has provided a solution for all situations, particularly in existing installations. The second presentation will describe a method for diverting an arcing fault's energy into a specific environment within a half-cycle after initiation of the arc, without the need to introduce bolted fault current like a crowbar or for fast current interruption, such as a current-limiting fuse. The system protection provided is similar to that of arc-resistant switchgear without reliance on the strengthening or integrity of the equipment enclosure.

Please note that a GE demonstration trailer with a sample of the device described in the second presentation (along with other notable exhibits) will be available for visiting from 3:00pm to 6:00pm in the parking lot outside the restaurant.

About the Speaker:

Gary H. Fox has been a Senior Member of IEEE since 2001. He received his BSEE from California Polytechnic State University, San Luis Obispo in 1978. He has been a licensed Professional Engineer since 1982. He has been employed by General Electric Company for over 31 years. His current assignment is a Senior Specification Engineer for GE Industrial Solutions in Concord, CA, providing application and technical support for power distribution and control equipment.

Mr. Fox is a member of the IEEE Industry Applications and IEEE Power Engineering Societies and has authored or co-authored several papers and articles covering a diverse range of topics such as arc flash, protective relay application, transient voltage surge protection, selective coordination, and application of electrical equipment in seismic hazard locations. He is an active member in several Industry Applications Society working groups concerning power distribution and protection.

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