

**Thursday, September 18, 2008**

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IEEE's OEB Industry Applications Society Chapter



Subject: **Green for Transformer Insulation? Use Natural Esters**

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Speaker: Dave Brucker, Senior Regional Power Systems Engineer, Cooper Power Systems

Date: Thursday, September 18, 2008

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 September 17, by contacting Gregg Boltz at email: [gboltz@brwncald.com](mailto:gboltz@brwncald.com) or telephone: (925) 210-2571

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

### ***Green for Transformer Insulation***

The September 18th meeting of the Industry Applications Society for Oakland East Bay Section will feature a talk entitled "Thinking Green for Transformer Insulation? Use Natural Esters." The speaker will be Dave Brucker, Senior Regional Power Systems Engineer, Cooper Power Systems.

In order to maintain the high standard of living that we as members of today's society enjoy, we are challenged to find ways to more resourcefully utilize utility assets; extend, if possible, their life; minimize the collateral damage to our environment from unexpected failures; and, increase their operating efficiency. Electrical transformers, both transmission and distribution, are a case in point. They populate electric utilities, provide the live blood to our infrastructure and industries, and, like the rest of us, they aren't getting any younger. Natural ester fluids, in this case soy oil, provide an elixir of life for these aging assets. These fluids also provide for a cleaner environment, safer operating conditions, longer asset life, and equipment overloadability.

This presentation offers an overview of the technical situation in the present day transformer business with a special emphasis on the use of biodegradable natural ester fluids in distribution and power transformers. Design and application economics are discussed with particular emphasis on environmental, fire safety and operating experience.

#### ***About the Speaker:***

**Dave Brucker** is a Life Member of the IEEE, an engineering graduate of the University of Notre Dame, and is the Senior Regional Power Systems Engineer for Cooper Power Systems supporting electric utilities in States of California, Nevada and Utah. He is a past member and Chairman of the IEEE West Coast Transformers Subcommittee, a member of IEEE Substations Committee, and the IEEE 693 Standards Committee. His past life included participation in many HVDC projects including the Pacific Intertie, Intermountain Power Project, Hydro Quebec Three Terminal HVDC Intertie plus others. A former resident of the Bay Area, he now resides a bit to the south near Paso Robles

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