



Louisville Section Technical Meeting

Date: Friday, June 26, 2015

Time: 11:30 AM – Reception
12:00 PM – Seating and Lunch
12:15 PM – Presentation

Location: University Club
200 East Brandeis Avenue
Louisville, Kentucky

Phone: (502) 852-6996

Directions: <https://www.uclublouisville.org/location/>

Web Site: <http://www.uclublouisville.org/>

Menu: U-Club Buffet: includes Soup/Salad Bar, on Fridays they offer a seafood bar and Hot Entree's. Check the web site for details. Desert is included.

Price: \$15 members and guests, \$10 students and life members

RSVP: Andy Dozier, Section Treasurer
Email: adozier@controltouch.com
Cell: 502-523-0785

Topic: **An Overview of Arc Flash and Related Requirements**

Speaker: **Mr. David Bredhold, Senior Power and Controls Designer,
C & I Engineering, Louisville, KY**

Abstract:

This year, a new version of NFPA 70E, the Standard for Electrical Safety in the Workplace, has been published. This standard was originally developed at OSHA's request. The current version provides the latest information about the effects of arc flash, arc blast, and recent developments in electrical design. These topics are familiar to most design engineers in the electrical engineering community. We know that arc flash is caused by

arcing electricity. We also know that electricians must be aware of arc flash hazards. However, some contracts are now requiring arc flash studies to be conducted by the contractor prior to installing custom industrial panels in the field. Designers of industrial control panels need to be aware of the basics of arc flash. This seminar will provide an overview of the following:

- What is arc flash?
- What damage is caused by arc flash?
- How are arc flash hazard categories determined?
- How can damage due to arc flash be minimized?
- What is needed for an arc flash study?

Biography:

Mr. Bredhold has over 40 years of experience in the field of power and controls design and application. Currently, he is the Senior Power and Controls Designer for C&I Engineering. Prior to working for C&I, Dave worked as an application engineer for Eaton Corporation, and as an Engineering Manager at E&K Electric in Jasper, IN and Mohler Technology in Boonville, IN. All of his work history is in the area of controls design and power distribution engineering.

Dave is currently a member of the IEEE Committee that has been tasked with rewriting the IEEE P3004.8 Recommended Practice for Motor Protection and Industrial and Commercial Power Systems.