



IEEE Canada

Northern Canada Section



IEEE-NCS, IAS/PES Presents

Tuesday, March 19, 2013, 6:20 to 9:00pm, doors open at 5:30pm

Safety by Design

Abstract:

There are several general goals imbedded within the system design.

The first precept of safety by design is to enable the technicians the ability to shut down and perform de-energized work on portions of the electrical system without impacting the process system reliability. For the system design to make it feasible to shut down and isolate equipment-requiring work an in-depth knowledge of the operation and maintenance practices intended is necessary.

The second tier of safety by design consideration must go into the equipment selection and configurations to minimize the equipment failures and extend system reliability. System designs that minimize failures mean less exposure of our technicians to the hazards inherent in troubleshooting or operating equipment that is not functioning per design.

The third criteria of safety by design is to minimize the risks involved in working in and around energized equipment through the use of designs that minimize the opportunity for shock or arc flash hazard.

The final principle is to minimize the magnitude of shock hazard and arc flash energy through designs.

This presentation provides the process substation design engineer with engineering techniques, equipment selections and system configurations which create a safer working environment for the electrical workers by incorporating these four basic principles of safety by design.

For more details for the event or registration questions or concerns please contact the event coordinator Alex Nassif at (alexandre [dot] nassif [at] atcoelectric [dot] com) if you have any problems registering, or if you have any questions.



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Speaker: James E. Bowen earned a BSEE degree, from Texas A&M University, in 1976. After working for SIP Engineering, as a Power Engineer, for three years, he joined Exxon Chemicals in 1979. His duties included maintenance, project design, construction follow-up, and commissioning for the petrochemical and cogeneration processes.

In 1997, Mr. Bowen joined Powell Electrical Manufacturing Company, as the Technical Director, where he provided leadership in the design development of MV switchgear and circuit breakers. In 2009, Jim accepted the position of Vice President of Advanced Technical Services, at Dashiell Corporation, where he advanced the concepts of safety by design into the high voltage substation. In 2010, Jim accepted a position with Aramco Services Co. as Power System Technologist. His current role includes investigating technologies that can be applied by Aramco to improve safety, reliability and profitability. Mr. Bowen presented at numerous technical seminars for the IEEE Houston Section's Continuing Education on Demand. He is a Professional Engineer in the state of Texas, and a newly elected Fellow Engineer of IEEE.



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Online Registration

https://meetings.vtools.ieee.org/meeting_view/list_meeting/16929

Registration (Friday February 15, 7am to Tuesday March 12, 5pm):

IEEE Members: \$20
Non-IEEE members: \$30
IEEE Student Members: \$10
Non-IEEE Student: \$12.5
IEEE Life Member: FREE

At the door Registration:

IEEE Members: \$35
Non-IEEE members: \$45
IEEE Student Members: \$15
Non-IEEE Student: \$17.5
IEEE Life Member: FREE

*****Please note online registration closes one week before the event*****

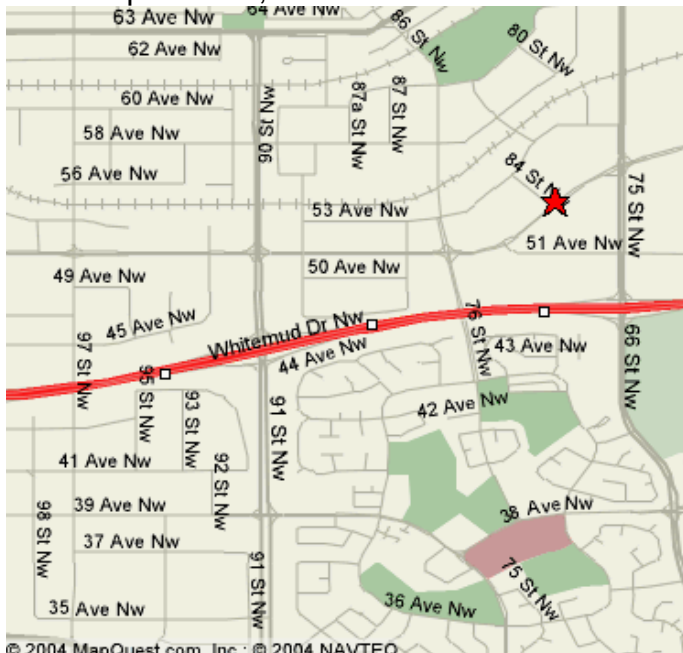


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Location:

German Canadian Cultural Centre
8310 Roper Road, Edmonton



Contact:

Alex Nassif: alexandre [dot] nassif [at] atcoelectric [dot] com

Event Sponsor:

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