



# IEEE Canada

## Northern Canada Section



### **IEEE-NCS, IAS/PES Presents**

Tuesday, May 26, 2015, 6:00pm to 9:00pm, doors open at 5:30pm

## Industrial Electrical Systems: Design Strategies

### Abstract:

The presentation will discuss some best practices from the perspective of an owner and an EPC, on today's projects with respect to electrical. Many difficulties are being encountered on today's projects, and have been for decades, especially in large projects in Alberta. In the keynote presentation by Mike McFadden of Independent Project Analysis at the 2010 IEEE ESTMP Workshop in Edmonton, he stated that the large Alberta projects were in the bottom 1/3 of comparable projects around the world (over the past decade). Has the situation improved – in the views of the authors; No. The opportunities for success on upcoming projects will be discussed including offering some best practices from both a project management and a technical basis. Although a number of issues and improvements in both areas are talked about, the focus on this presentation will be on the things that we, as electrical engineers, can control, that is the electrical areas. The discussion will cover technical items in the areas of design, equipment selection, electrical codes, variances, construction and inspection.



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### Speakers:



**Tim Driscoll, F.IEEE**, (BSc.'76) received his Bachelor of Science, Electrical Engineering degree in 1976 from the University of Calgary, Calgary, Alberta, Canada. Since graduation he has been employed at Shell Canada in various positions including control engineering, project management and electrical engineering. Responsibilities included electrical engineering support for all Shell Canada's facilities in the areas of operations, maintenance, safety, energy

and capital projects. Currently retired from Shell, he runs a small engineering firm in Calgary, OBIEC Consulting. He has co-authored several papers and presentations at the IEEE PCIC Conference, the IEEE PCIC Europe Conference, the IEEE Electrical Safety, Technical & Mega Projects Workshop and the IEEE Electrical Safety Workshop. He is a member of the Association of Professional Engineers and Geoscientists of Alberta. He is also chair of the Canadian Electrical Code section 62 and the Technical Content Subcommittee on the CSA Objective Based Industrial Electrical Code, and participates on several other Alberta Codes, and CSA, API, IEEE and IEC standards.



**D. George Morlidge, P. Eng.** is the Chief Electrical Engineer for Fluor Canada Ltd. He has thirty years experience in operations and consulting engineering in heavy industry in the petroleum, chemical, cogeneration, pipelines, automotive, lumber, mining and food processing sectors in both Canadian and international projects. He is a section subcommittee member for sections 2 and 10 and chairman of section 18 of the Canadian Electrical Code and a member of the Canadian Standards Association Technical Committee

for Industrial Products and the Technical Committee for the Objective Based Industrial Electrical Code. He is a member and past chairman of the Energy Industry Electrical Engineers Association. He is chairman of PCIC 2017 to be held in Calgary.



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## Opening presentation

IEEE NCS IAS/PES is proud to sponsor the Archbishop Jordan Catholic High School robotics team.

After appearing at the 2015 VEX Robotics World Championship, teacher and team coach Scott Crosbie notes;

...From an engineering perspective, the game is an exercise in problem solving. The problem to be addressed was how to most efficiently build "the Skyrise" and also get cubes on it. We had individuals who wore many hats, including designer, builder, tester, and programmers. All of these aspects has to come together to create a robot that successfully completed the task. As the teacher of the class, my position was to support the needs of the students, to keep them focused, and to offer guidance from my years of doing this. As far as the students are concerned, they did all the work, and should be extremely proud of what they accomplished.

Students will present and demonstrate their robot.





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### **Agenda:**

At the Door Registration, Cash Bar Social with Appetizers: 5:30pm  
Opening, Archbishop Jordan HS robotics team with Q&A: 6:00 – 6:30pm  
Main Speaker Presentation with Q&A: 6:30 – 9:00pm

### **Registration**

#### **Online (April 21st – May 22nd)**

<https://meetings.vtools.ieee.org/m/34411>

IEEE Members: \$25  
Non-IEEE members: \$30  
IEEE Student Members: \$15  
IEEE Fellows: \$10  
IEEE Life Members: Free

#### **At the Door** - (Payable by cash or cheque)

IEEE Members: \$30  
Non-IEEE members: \$35  
IEEE Student Members: \$20  
IEEE Fellows: \$15  
IEEE Life Members: Free

Please have your **IEEE membership card** ready to obtain the discount.



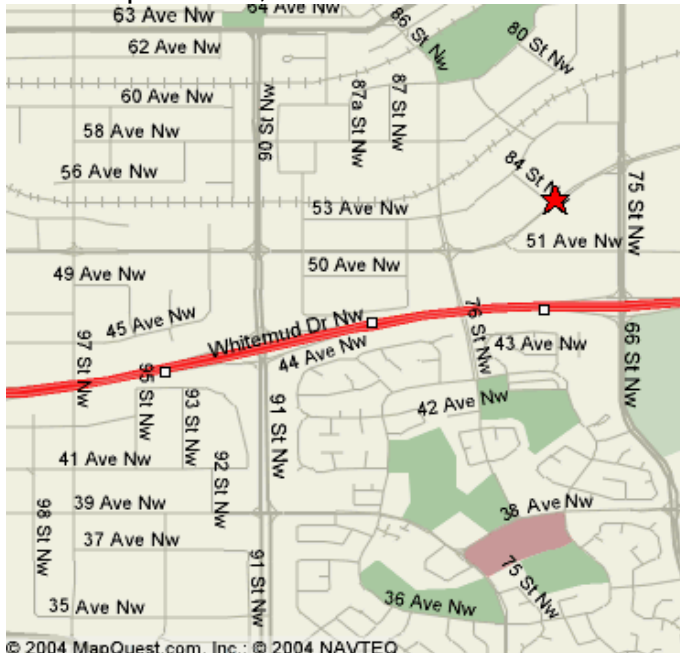
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### Location:

German Canadian Cultural Centre  
8310 Roper Road, Edmonton



### Contacts:

Carl Lam, [cflam@suncor.com](mailto:cflam@suncor.com)

### Event Sponsor:

Sponsorship opportunities still exist

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