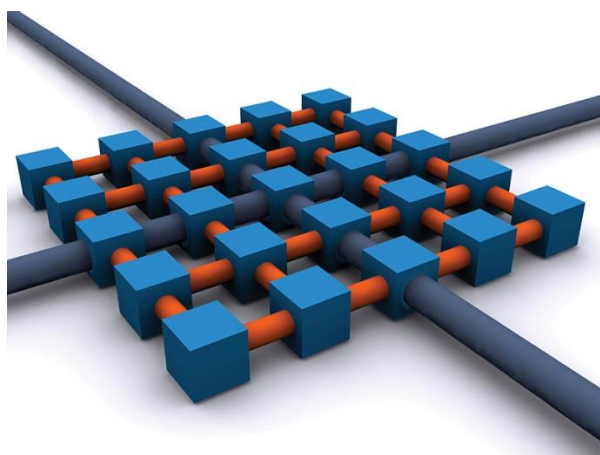


IEEE Southern Alberta Control Systems & Instrumentation



Next Event	Low Cost DC Microgrids
Organized By	IEEE Control Systems & Instrumentation
Date	Thursday, September 21st, 2017, Start at 5:30 PM
Speaker(s)	Ken Caird, President, Caird Utility Automation Consulting
Location	110 – 12 Ave SW, Calgary, AB TransAlta Building, Atrium 1
Fees	Member: \$15, Non Member: \$25, Full time Student: Free
Registration	Click here to register

Abstract



Today, there are still an estimated 1.2 billion people in the world who live without electricity (20% of the world's population). Today we have technology that can deliver energy to these remoter regions by employing large central generation, HV transmission and medium voltage distribution with users operating in the 100-240 volt range depending on their geography. Solar, small wind, and LED lighting provide foundation technologies are being developed for deployment in today's present grid, but are not optimized for low cost, simple deployment and maintainability in the developing world. **Light the World** plans to develop the cost optimized technology that is necessary to have a very low cost electricity deployment. Light The World's solution is based on a DC microgrid concept, which enables each member of a community to share excess power and provide scalability.

Ken Caird, President, Caird Utility Automation Consulting



Ken started his career as a Protection & Control Engineer at a major Canadian Utility, where he was responsible for the design and installation of EMS and SCADA Systems, and communication networks as well as protection automation. After 15 years at the utility Ken became Director of R&D at a substation automation start up that was acquired by General Electric. At GE Ken was responsible for the high level systems design for GE's Smart Grid System offering, including interoperability requirements between GE's products used in Smart Grid solutions and legacy systems used by GE's utility clients. Ken developed standards and worked with external System Integrators to provide interoperability between utility real time network operational systems and IT based enterprise systems. Ken specializes in Substation & Distribution Automation Projects and is on the Board of Directors for **Light the World**, a non-profit bringing energy to 3rd World and remote communities.

Program for Thursday, September 21st, 2017:

- » 5:30 Registration
- » 6:00 Introduction
- » 6:15 Presentation
- » 7:00 Break and a Quick Snack
- » 7:30 Presentation Resumes
- » 8:15 Q&A
- » 8:30 Networking
- » 9:00 Doors close

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IEEE Control Systems and Instrumentation chapter committee has opening for two new committee members. If you are interested, please contact Matt Eskandar, Chair at matt.eskandar@mrCSI.com.

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