



IEEE Canada

Northern Canada Section



IEEE-NCS, IAS/PES Presents

Tuesday, September 30th, 2014, 6:00 to 9:00pm, doors open at 5:30pm

Technical Seminar:

“Renewable Energy Utilization and Role of Energy Storage and Demand Response for Improved Reliability”

Opening Talk:

“Networking for Career Development”

Technical Seminar Abstract:

It is expected that demand for electricity will increase rapidly around the globe in the foreseeable future. The increase in demand dictates the need for rapid increase in generation capacity, much of which is expected to be in the form of emission-free renewable energy power generation, including the highly heterogeneous energy sources such as wind and solar. We have already seen the growth of such power generation in the past decade.

This presentation evaluates the potential of several different renewable energy power generation sources. The opportunities and challenges associated with the use of variable renewable energy sources and the role of energy storage and demand response in mitigating their variability in grid-connected and off-grid (islanded microgrid) applications will be discussed. Intelligent power management of multisource microgrids for improved reliability and resiliency, and a vision for a future renewable-energy-based Hydrogen-economy society will also be presented.

For more details for the event or registration questions or concerns please contact the event coordinators Kelly Butz kbutz@magnaiv.com or Carl Lam cflam@suncor.com.



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Dr. Nehrir has over forty years of university teaching and research experience. He is a professor at the Department of Electrical and Computer Engineering at Montana State University (MSU) actively pursuing research on modeling, control, and power management of alternative energy power generation systems, load control (demand response) and application of artificial intelligence for microgrid power management for resiliency and self-healing of power systems. He has authored three textbooks. His most recent book, *Modeling and Control of Fuel Cells: Distributed Generation Applications* (Wiley-IEEE Press, 2009) and the dynamic fuel cell models developed under his supervision are being widely used around the globe.

Dr. Nehrir is the recipient of the Faculty Award for Meritorious Research at Montana State University in 2010, the current vice chair of the Renewable Energy Technologies Subcommittee of IEEE-PES, and an Editor of *IEEE Transactions on Sustainable Energy*. He is a Life Fellow of IEEE.



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Opening Talk: Networking for Career Development

This event is being organized in collaboration between the PES/IAS Chapter and the Northern Canada Section Career/Professional Development Committee.

Abstract

This talk would provide an overview of networking skill development and debunk the negative connotations associated with networking. In its purest form networking is being authentically interested in the people around you. Authenticity has a powerful effect on career development.

Biography



Margot Ross Graham, (CHRP, CPCC) is the VP Integration for Williams Engineering Canada. Her role provides strategic direction and leadership to the Human Resources, IT, Marketing, and Communications departments as well as all integration initiatives. Margot is an experienced senior executive with extensive background in leadership, change management, and organizational development.

In addition to her work with Williams Engineering Canada, Margot owns and operated Sandbar Coaching and Consulting where she provides extensive support to leaders in private, public and non-profit organizations across Canada. She is a certified executive Coach who provides clients provides consulting and facilitation services, in areas such as Strategic Planning, Leadership Development, Succession Planning, Workplace Culture and Change and Transition. Margot is featured every Tuesday as the **Workplace Columnist for CBC Radio's Edmonton morning show.**

She is the Past President of the Edmonton Glenora Rotary Club, a founding member of the Amazing Ladies, and currently sits on the Board of the Citadel Theatre and MacEwan University's School of Business Advisory Council. When Margot finds time to take a breath, she is passionate about yoga, hiking and biking, but her dedication to family trumps it all.



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Agenda:

At the Door Registration, Social and refreshments/appetizers:	5:30pm
Professional Development Speaker Presentation with Q&A:	6:00 – 6:20pm
PES/IAS Speaker Presentation with Q&A:	6:30 – 9:00pm

Online Registration (Open from August 10th – September 28th)

<https://meetings.vtools.ieee.org/m/27813>

Early bird online registration fee

IEEE Members: \$20
Non-IEEE members: \$30
IEEE Student Members: Free
Non-IEEE Student: \$10
IEEE Life Members: Free

At the Door Registration - (Payable by cash or cheque)

IEEE Members: \$25
Non-IEEE members: \$35
IEEE Student Members: \$10
Non-IEEE Student: \$15
IEEE Life Members: Free

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



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Location:

University of Alberta
The Engineering Teaching and Learning
Complex (ETLC)
Room E1-003, the "Shell Room"
9107 116 Street, Edmonton, AB

Parking available at Windows Car Park
\$5 after 4:30PM for the evening



Contact:

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Event Sponsor:

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