



# IEEE

## Ottawa Section



***The IEEE Ottawa Section, IEEE Power and Energy Society Ottawa Chapter (PES), and Instrumentation & Measurement Society Ottawa Chapter (IMS), Reliability Society and Power Electronics Society Joint Chapter (RS/PELS), Communications Society, Consumer Electronics Society, and Broadcast Technology Society Joint Chapter (ComSoc/CESoc/BTS), and IEEE Ottawa Educational Activities (EdA) in conjunction with NRC Electrical Power Measurements are inviting all interested IEEE members and other engineers, technologists, and students to a seminar***

### **Smart Cities**

By

**Dr. Tom Murad, Head of Siemens Canada Engineering and Technology Academy, Siemens**

**DATE:** Tuesday, January 24, 2017

**TIME:** 14:00 p.m. – 15:00 p.m.

**PLACE:** National Research Council (NRC), Building M-36, Kelvin Room, 1200 Montreal Road, Ottawa

**PARKING:** Visitors' parking opposite the building M-36. Please respect restricted areas.

#### **Abstract**

Intelligent infrastructure paves the way for smarter, more integrated systems that keep economies running and contribute to economic success, efficiency savings, and economics of scales. Buildings not only offer space for working and living, they are also capital investments. Their value can be maintained only if they are operated cost-effectively. A constant reliable energy supply is central for economic growth and stability, as well as social wellbeing. However today's grids were not designed to handle the growing power requirements or the increasing proportion of fluctuating power generated from renewable sources. Transportation of people and goods is a top priority for metropolitan areas. Population growth, congestion and the growing demand for mobility all place increasing burdens on transport systems with negative impacts for businesses, residents and overall quality of life. A Smart City applies state-of-the-art solutions enabled and improved by holistic Integration for the sake of the people, of the administration, of the business as well as of the environment.

#### **Biography**

**Dr. Tom Murad** is the Head of the Siemens Canada Engineering and Technology Academy, established in October 2014. Tom has more than 35 years of Professional Engineering and Technical Operations Executive Management including more than 10 years of Academic and R&D work in Industrial Controls and Automation. Previous to his current role, Tom was Head of the Expert House and Engineering Director for Siemens Canada's Industry sector since 2010. Prior to joining Siemens, Tom was the SVP and COO of AZZ - Blenkhorn & Sawle. He previously held various VP and Director positions with numerous international organizations and contributed to many global Industrial projects.

Tom earned a Bachelor of Engineering (Electrical & Electronics), and a Doctorate (Ph.D.) in Power Electronics and Industrial Controls from the Loughborough University of Technology in the UK. He also received a Leadership Program Certificate from Schulich Business School, York University in Ontario, Canada. Dr. Murad is a Fellow of Engineers Canada, a licensed (P.Eng.) member of The Professional Engineering Ontario (PEO); APEGA in Alberta, and NAPEG in the North Western Territories. He is a Senior Member of IEEE, and is

- Member of Board of Directors – IEEE Canada,
- Chair of Executive Committee – IEEE Toronto Section,
- Member of Board of Directors – Canadian-German Centre for Innovation and Research,
- Member of the PEO Licensing “Engineering Experience Review” – ERC Committee since 2002,
- Member of OSPE’s Hamilton – Halton Engineering week Committee,
- Serving on various Advisory Boards in the Industry and the Academia.

**Admission:** Free. Advanced registration is necessary, for security reasons.

Please register ***no later than Mon., January 23, 2017 at 5:00 p.m.*** by e-mail contacting:  
[branislav@ieee.org](mailto:branislav@ieee.org).