IEEE International Conference on Smart Grid Engineering (SGE'12)

27-29 August, 2012

UOIT, Oshawa, Canada

Sponsored by IEEE Toronto (NPSS & PES) and MITACS

Panel Discussion (27-Aug-2012, 3:00-5:00pm)

Challenges, Approaches, and Practical Implementations of Micro Grids with Energy Conservation Strategies

Panel List

- Hossam Gaber (Chair), UOIT, Canada
- Joseph Jedinak, Whitby Hydro, Canada
- Om Malik, University of Calgary, Canada
- Mohammed Safiuddin, UB, US
- Darold Wobschall, Esensors Inc., US

Dr. Hossam A.Gabbar (Gaber), Associate Professor, UOIT, Canada

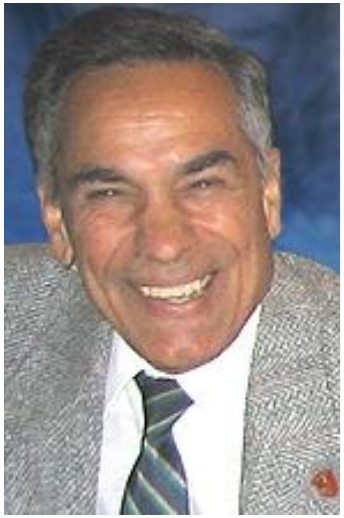
The director of the Energy Safety and Control Lab (ESCL), The Faculty of Energy Systems and Nuclear Science, and cross appointed in the Faculty of Engineering and Applied Science, University of Ontario Institute of Technology (UOIT). He is also adjunct professor in McMaster University (2010~). Ph.D. (Safety Engineering), Okayama University (Japan), B.Sc. (Automatic Control), Alexandria University, Egypt. Specialized in safety and control engineering and their applications on smart grid, energy, power, and process systems. Tenured Associate Professor (2004~2008), the Division of Industrial Innovation Sciences at Okayama University, Japan. Research Associate (2001~2004) Tokyo Institute of Technology, Japan. Participated in national projects green energy and smart grid systems. Leading projects in risk-based smart grid design, protection, and control, and hybrid energy supply systems. He is a Senior Member of IEEE, the founder of SMC Chapter - Hiroshima Section, the founder and chair of the technical committee on Intelligent Green Production Systems (IGPS), and Editor-in-chief of International Journal of Process Systems Engineering (IJPSE), president of RAMS Society, and editorial board of the technical committee on System of Systems and Soft Computing (IEEE SMCS). He is founding general chair of IEEE Smart Grid Engineering Conference, invited speaker in several Universities and international events, and PC / chair / co-chair of several international conferences. Dr. Gabbar is the author of more than 160 publications, including books, book chapters, patent, and papers in the area of safety and control engineering for smart grid and hybrid green energy and production systems.

Joseph Jedinak, CDM Program Manager, Whitby Hydro Energy Services Corporation

Joseph Jedinak – CDM Program Manager, Whitby Hydro Energy Services Corporation

His background in energy management and sustainable practices began on the family farm and included owning and operating a renewable energy solutions business focused on rural sustainable applications.

Joseph Jedinak, CDM Program Manager, Whitby Hydro Energy Services Corporation



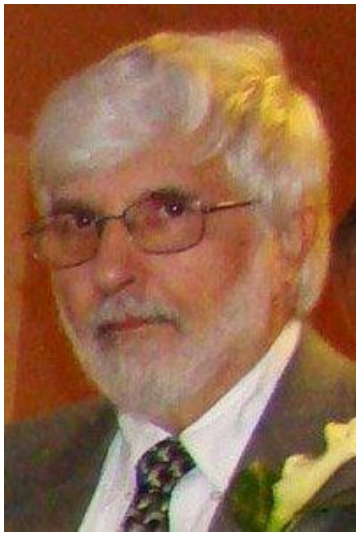
Professor Om P. Malik has done pioneering work in the development of adaptive and artificial intelligence based controllers for application in electric power systems over the past 40 years. After extensive testing in the laboratory and in actual power systems, these controllers are now employed on large generating units.

Professor Malik has also done extensive work in the area of power system protection particularly digital and artificial intelligence based protection schemes, generation of electric power from wind, etc. He has published over 700 papers including over 360 papers in international Journals such as IEEE Transactions and IET (formerly IEE) Proceedings. He is the coauthor of one book and published 7 book chapters including 2 in Encyclopedias of Electrical Engineering. His scientific contributions are well known and he has been invited to give plenary talks at a number of international conferences.

Dr. Mohammed Safiuddin, Research Professor Emeritus, University at Buffalo

B.E. (Electrical) Osmania University, India, MSEE University of Illinois), MBA, Ph.D. UB(SUNY). Junior Engineer, Andhra Pradesh State Electricity Board (India) (1958-59). Westinghouse Electric Corporation, Buffalo, New York (1960-85). Research Professor, Advanced Technology Applications, Electrical Engineering, University at Buffalo (SUNY) (1977-2010). President, STS International, Amherst, NY (1985-present). Technical interests cover static power conversion and optimal control systems applied to industrial processes, energy conservation and energy management. Holds 10 patents in this field and has published numerous technical papers. IEEE Life Fellow. Awarded Roscoe Allen Gold Medal (1957, Osmania University) for excellence in hydraulics. Awarded "IUSD Award of Merit" in 1992 (IEEE-Industry Applications Society). Recognized for meritorious achievement in continuing education by the IEEE-EAB award for the year 2000. Member Pi Mu Epsilon (Mathematics), Beta Gamma Sigma (Business) honor societies, and "Eminent Engineer" member Tau

Darold Wobschall, Esensors Inc., US



Dr. Wobschall is President of Esensors Inc. and a former member of the EE faculty of the University at Buffalo. He has worked in the areas of electronic instrumentation, sensor development, and bioengineering, taught courses on electronic instruments and given seminars on sensor-related topics at national meetings for many years. He is the author of a book on electronic instruments, several patents and over 50 technical papers. As a member of IEEE 1451 working groups he is developing open-source protocols for smart transducers. Currently he is developing networked sensors for the smart grid and smart buildings.

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Panel Discussion (28-Aug-2012, 2:30-4:30pm)

Toward Practical Implementation of Smart Grids

Panel List

- Hossam Gaber (Chair), UOIT, Canada
- Bala Venkatesh, Ryerson University, Canada
- David Curtis, Hydro One, Canada
- Jon Horsman, Siemens Canada, Canada
- Richard Ford, Toronto Hydro, Canada
- Keyvan Cohanim, ENBALA, Canada
- William J. Miller, MaCT, USA

David Curtis, Director, Asset Strategy Division, Hydro One Networks Inc.

David Curtis works in Hydro One as the Director of the Asset Strategy Division. In his current role, David oversees development of long-term asset plans, coordinates formulation of policies and processes and promotes corporate initiatives such as the development of the “Smart Grid”.

David has worked in the electricity utility industry in Ontario for over thirty years in a variety of capacities. He has worked in transmission and distribution system planning, transmission regulatory affairs, corporate strategic planning, and power system planning.

Jon Horsman, Infrastructure and Cities Sector Smart Grid Division

Bala Venkatesh, Associate Professor, Ryerson University

Dr. Bala Venkatesh is an Associate Professor in the Department of Electrical and Computer Engineering and Academic Director of the Centre of Urban Energy at Ryerson University.

Dr. Venkatesh's research focuses on Power Systems Analysis and Optimization. He specializes in Fuzzy Optimization applications to Power Systems. He has successfully applied his research outcomes in several consulting projects in India and Canada. His research output has resulted in about 70 papers of which about 40 appear in refereed journals. He holds several individual research grants and works on group research grants that total in millions of dollars. At Ryerson, he heads the Power and Energy Analysis Research Lab.

Dr. Venkatesh is a Senior Member of the IEEE and a registered Professional Engineer in the provinces of Ontario and New Brunswick, Canada.

Richard Ford, Manager Grid Solutions, Toronto Hydro

Richard is Manager of Grid Solutions at Toronto Hydro-Electric System Limited. His team works collaboratively across the company to establish the necessary plans, standards, processes, skills and work instructions for the installation, and subsequent support required for the next generation “two way” grid.

A recent arrival to Canada, Richard brings with him 25 years of experience in all aspects of the electricity network. His career began with the National Grid Company. He has also worked for the UK regulator, a renewable trade association and, wind farm developer.

His current work encompasses transformer monitoring, power line monitoring, community energy storage, data retrieval and management, network automation, and grid analytics.

Keyvan Cohanim, EVP, Sales and Marketing, ENBALA Power Networks

Keyvan Cohanim has over 20 years of sales, marketing and strategic leadership success with Cleantech and Information Technology companies.

Most recently he was responsible for leading Bullfrog Power into new renewable energy markets. Prior to that, he held CEO and Chief Sales and Marketing positions with high growth international companies in the software and services sectors. Mr. Cohanim began his career with IBM, where he held executive leadership roles in Canada and the U.S.

Mr. Cohanim is a member of the Ontario Energy Association Corporate Partners Smart Grid Committee and is a Cleantech business advisor at the MaRS Discovery District. He holds a Bachelor of Mathematics, Computer Science degree from the University of Waterloo.

William J. Miller, President, MaCT, USA

Bill is President/Owner of Maximum Control Technologies (MaCT) , a MILLER W J & ASSOCIATES Company, which provides consulting and systems integration services internationally with offices in the United States, Canada, and Hong Kong, PRC. He is a graduate of Pennsylvania State University with a degree in Electrical Engineering and Telecommunications. He has designed, managed, and installed numerous distributed process control systems for power, paper, chemical, and cement industry with over 34 years of experience. He was chairman for IEEE P2030 TF3 SG2 for Interoperability of the Smart Grid, now chairman of IEEE P1451.1.4 Smart Transducers Interface for Sensors, Actuators, and Devices use of eXtensible Markup and Presence Protocol (XMPP) for Network Device Communications. He is chairman of ISA100 WG20 Common Network Management Working Group, participate in NIST PAP02, and in ISO JTC1 WG7 INCITS SN1 US ANSI Representative, He reviewed many federal IT security standards including the FISMA (Federal Information Security Management Act) and NIST 800-53 ICS (Industrial Control Systems) vs. NERC CIP standards. He also is a member of the XMPP IoT (Internet of Things) Working Group. He is now also a member of IEEE P2302, P2030.1, and P2030.100.