



Farmingdale
State College

IEEE Power & Energy and Industry Applications Long Island Joint Chapter Invites you to the ninth annual

"2013 IEEE Long Island Systems, Applications, and Technology Conference (LISAT) – CEU Track"
Friday May 03 (8:00AM – 3:00PM)

Farmingdale State College SUNY - 2350 Broadhollow Road - Farmingdale, New York 11735

Register: https://meetings.vtools.ieee.org/meeting_view/list_meeting/16349

***"Power systems PF Correction and Harmonic Filtering"* (0.2 CEU) 8:35am – 10:15pm**

Presented by: Sylvain Lanoue, P. Eng., VP at Power Survey International

Power Factor Correction (Capacitive) systems on LV and MV systems have both economic and technical feasibility in today's power systems. An overview of power factor, active/reactive/apparent power, will be presented. Other topics include sizing of capacitor systems to achieve PF goals for maximum payback and system features. With the increased use of modern computer systems and power electronic drives, power quality and harmonic distortion have become real challenges for the grid. Harmonic filter designs and features will be discussed as well as an overview of different types of harmonic distortion.

Sylvain Lanoue completed a bachelor as an Electrical Engineer at the 'École de Technologie Supérieur' from University of Québec and is an official member of the Professional Engineer association in Québec, Canada. Sylvain was a National Product Manager for a multinational company in the capacitor and harmonic filter field for 12 years. He then left this company to join Power Survey 10 years ago as a partner. Sylvain has done numerous articles and conferences and he is well known as a specialist in this exciting Power Quality field

"GIS Integrated Analytics for Preventive Maintenance and Storm Response"

Presented by: John Lauletta, President and CEO of Exacter, Inc. (0.2 CEU) 10:30am – 12:10pm

As the Grid evolves, some are wondering what the role of GIS will be. GIS will define and maintain more accurate, complete network models and be an integral part of new Outage Management (OMS) and Advanced Distribution Management Systems (ADMS). GIS will provide the geographical organizational aspects of Business Intelligence (BI) and Data Analytics (DA) capabilities. Whether it is analysis of networks or display of Key Performance Indicators, the results will come from time-series simulations that much more nearly model real time network performance.

John Lauletta has been involved in electric utility measurement technology since 1975. John's career includes ten years with American Electric Power as Measurements Manager, 14 Years as VP Scientific Columbus and most recently as President and CEO of Exacter, Inc. John holds engineering degrees from The Ohio State University and Purdue University and is the Past Chair of the Central Ohio Power Engineering Society Chapter of IEEE. John holds several patents in predictive failure technologies.

"Smart Grid Framework and the Role of Renewables"

Presented by: Greg Sachs, P.E., COO of EmPower CES, LLC (0.2 CEU) 1:10pm – 2:50pm

A strong and growing desire exists, throughout society, to consume electricity from clean and renewable energy sources, such as solar, wind, biomass, geothermal, and others. Due to the intermittent and variable nature of electricity from these sources, our current electricity grid is incapable of collecting, transmitting, and distributing this energy effectively. The "Smart Grid" is a term which has come to represent this 'next generation' grid, capable of delivering, not only environmental benefits, but also key economic, reliability and energy security benefits as well. Due to the high complexity of the electricity grid, a principle based System Architecture framework is presented as a tool for analyzing, defining, and outlining potential pathways for infrastructure transformation. Through applying this framework to the Smart Grid, beneficiaries and stakeholders are identified, upstream and downstream influences on design are analyzed, and a succinct outline of benefits and functions is produced.

Greg Sachs, P.E. is Chief Operating Officer of EmPower CES, LLC, a Solar Contracting & Consulting company on Long Island. He is an elected Officer of Long Island Solar Energy Industries Association (LISEIA) and LIPA-SGIP Working Group Chair. He is the co-founder of the US Merchant Marine Academy (USMMA) Alternative Power Program and has served as a USMMA Electrical Engineering Instructor. Greg is also a graduate of the USMMA in 1999. After graduation Greg attended Navy Nuclear Power School, and subsequently held several management and teaching positions as a Nuclear Engineer at Knolls Atomic Power Laboratory. Greg holds a Masters Degree from the MIT-Sloan Systems Engineering & Management program.

Coordinator for the classes: Matthew B. Nissen, P.E.

The IEEE has been approved as an Authorized Sponsor by the NYS Education Department. Registration for the LISAT2013 Conference is required to attend the CEU track; CEU records will be charged an additional \$30 (covers three 2-hour classes).

Please submit completed evaluation forms to POWER@IEEE.LI