



# NSPE 2017 Northeast Region Meeting

Hosted by the Massachusetts Society of Professional Engineers

## PRESENTATION OVERVIEWS – November 4, 2017

### Presentation 1: 9:15 – 10:15 a.m.

#### Cyber Security for Operational Technology (OT)

Co-presented by:

**Bob Steffy, IT Engineer | AutomaTech Inc.**

**Michael Sakmar, Sr. Director, Global Cybersecurity Consulting | GE Digital**

Manufacturing is an evolving process when it comes keeping a plant running and secure. To be secure and open enough to get information to other areas of the business in a new age where many companies are trying to go through a digital transformation to be more competitive is a challenge. This presentation will serve as an introduction to cybersecurity for manufacturing - operational technology (OT) focused professional. We will explore the differences between the OT needs and the traditional information technology (IT) needs. Additionally, we will talk about some of the steps to take in an ever-changing journey of securing and operating a manufacturing environment.

#### About the Presenters



**Bob Steffy** is an IT Engineering Professional with a broad background in managing lab and data center environments. He has overseen over 8,000 servers for major financial companies, and has managed proactive disaster recovery planning and support. In recent years, Bob has worked for AutomaTech, a leader in operational technology (OT) and has helped manufacturing and utility companies seeking to bridge traditional IT technology with OT. Bob lives on the south shore of Boston with his wife and a cat named Spice. In his free time he enjoys doing improvement projects for friends and family.



**Michael Sakmar** rejoined General Electric in 2015 to lead a global cybersecurity consulting practice for GE Digital focused exclusively in the Operational Technology space. Michael served in various leadership positions in the U.S. for General Electric, Rockwell Automation, Brady Corporation and Epicor Software. His earlier career at General Electric included roles as Branch Manager, Region Manager, Director of Services, and the culmination-role of Director, Global Professional Services Business. Michael holds both a Bachelor and Masters of Computer Science degree from Troy State University, Montgomery, Alabama.

### Presentation 2: 9:15 – 10:15 a.m.

#### Exploring the Value of NICET Certification

Presented by **Michael A. Clark, CAE, Chief Operating Executive**  
**National Institute for Certification in Engineering Technologies**

Since the Institute was founded in 1961, more than 135,000 technicians and technologists have met NICET's rigorous certification criteria, and the number is growing rapidly as more employers and local and state governments rely on NICET certification to measure the qualifications of their workforce. The certificate and wallet card issued by NICET serve as a portable credential for certified technicians and technologists who seek to maximize their skills and knowledge and advance in their professions. Come learn how you can benefit from NICET Certification.

#### About the Presenter



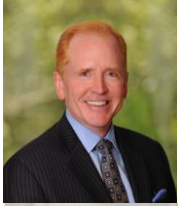
**Mike** earned his B.S. in Civil Engineering from Clarkson College of Technology. The first five years of his career were spent in civil engineering and transportation construction management, and the past 35 years have been spent in management of personnel certification activities – first for the American Concrete Institute (9 yrs.) and now with NICET (26 yrs). He is responsible for implementing the policies and directions of NICET as established by the Board of Governors; managing all day-to-day operations of the Institute; and promoting the value of certification and continued professional development for engineering technicians and technologists. He is a Certified Association Executive.

**Presentation 3: 10:45 – 11:45 a.m.**

**Business Succession: The Most Important Transaction of Your Life  
How to Have the "Walk Off Home Run" of Retirements**

**Co-presented by**

**Bob Furlong, Financial Advisor | The Bulfinch Group  
John Koenig, Business Attorney | John L. Koenig Law, LLC**



**Bob Furlong, Financial Advisor | The Bulfinch Group**

*Bob Furlong works closely with individuals, business partners and families to develop and achieve financial goals. Bob approaches planning through a customized process that is designed to meet the specific objectives of each client. Bob works with business owners to develop plans for business continuity and succession, enabling them to have a better opportunity for a more fruitful retirement.*



*As a business attorney, John Koenig works with private companies and entrepreneurs at all stages of the business cycle. His focus is on Business Succession, but he also works in other relevant areas of business law.*

**Presentation 4: 10:45 – 11:45 a.m.**

**Don't Allow Others to Steal Your Work**

**Presented by Robert Pellegrini, Esq. | PK Boston Law, Inc.**

As a business and real estate attorney who specializes in the engineering and construction industry, Robert Pellegrini, Esq., will show you what every Engineering contract needs and explain why illegal use of engineering/architect plans is one of the most frequent crimes committed in the engineering field and how you can prevent it. You'll get a demo on filing for copyright protection, hear of recent changes in copyright law, and learn how to protect your drawings or plans.

**About the Presenter**



*Attorney Pellegrini has over 20 years of experience in real estate, land use, zoning and business law, and has recently been busy expanding PK Boston Law to three offices in Massachusetts (Newton, Bridgewater and Plymouth). Prior to starting his private practice in Bridgewater, Attorney Pellegrini served as Senior Attorney for Cumberland Farms, Inc. and Gulf Oil. Rob regularly represents Engineers and Architects with collections and intellectual property issues. He is a Corporator for Bridgewater Savings Bank, where he serves on its Bylaw Committee. He is a member of the Real Estate Bar Association (REBA) and the Bridgewater Business Association. He has been featured in dozens of national media real estate articles featured in the Boston Globe, Realtor.com, US News and World Report and regional publications such as the Sun Chronicle and Wicked Local. He is an avid blogger on real estate matters, which can be found at [www.pkboston/blogs](http://www.pkboston/blogs) or on Twitter @pklawfirm*

**LUNCH (with Distinguished Guest Speaker) 12:00 – 1:30 p.m.**

**Message and Updates from our 2017-18 NSPE President**

**Tom C. Roberts, PE, F.NSPE**



*Tom is from Manhattan, Kansas, and has more than 40 years' experience in planning, organizational development, and leadership training programs. He worked for Black & Veatch for 16 years (including 11 years in HR). He formed Upward Consulting in 1989 and has served as a continuous quality improvement consultant for many manufacturing & service companies and educational institutions. He has presented information on systems thinking, professional development and our changing society to a wide variety of national audiences. As a 40-year member of NSPE, Mr. Roberts is a past Chair of PE's Professional Engineers in Higher Education and in 2010 was named an NSPE Fellow. He holds B.S. and M.S. degrees in Nuclear Engineering from KSU and has been a licensed professional engineer since 1976.*

## **Presentation 5: 1:30 – 2:30**

### **Commonwealth Avenue Bridge – Rapid Replacement Project Presented by Gary R. McNaughton, P.E., PTOE | McMahon Associates**

#### **About the Presenter:**

*Mr. McNaughton draws on over 25 years of experience in the planning and design of transportation and engineering projects. He is a principal and the New England Regional Manager for McMahon Associates, a 150+ transportation engineering and planning firm with offices along the East Coast. His experience is a blend of public and private sector work that includes roadway and intersection improvement design including transit accommodations, traffic signal analysis and design, highway interchange design, value engineering studies/reviews, and construction staging and traffic management. He has successfully developed projects from conceptual design through final design and permitting for a range of public roadway projects and private development clients.*



## **Presentation 6: 1:30 – 2:30**

### **Emergency Generator Permitting in MA and Other New England States Presented by Vincent Tino, CCM | Epsilon Associates, Inc.**

*Massachusetts has a somewhat convoluted process to permit an emergency generator. We'll discuss how to best avoid the potential pitfalls of registering an emergency generator in Massachusetts, as well as discuss the methodology required in a number of other New England states. The goals will be to realize the importance of designing the unit with the permitting process in mind, and how those design requirements can impact the registration process.*

#### **About the Presenter:**

*Mr. Tino is an American Meteorological Society Certified Consulting Meteorologist (CCM) with more than 25 years of experience in air quality modeling and permitting, meteorological modeling, model development, and data analysis. His has extensive knowledge of air quality dispersion models, which are both approved, and under review by the U.S. Environmental Protection Agency (EPA). He has been permitting and registering emergency generators in Massachusetts since 1999, and has a thorough knowledge of dispersion modeling methodology required of large engines in the Commonwealth.*



## **Presentation 7: 2:45 – 3:45**

### **Properly Sizing CHP Presented by Ross Theriault, VP of Operations | Co-Energy America**

*This presentation will examine the proper sizing of CHP, and will cover how to properly size CHP for industrial, commercial and residential facilities. Other topics will include system pricing, paybacks and various state incentives*

#### **About the Presenter:**

*Mr. Theriault is a proven leader with a keen eye for trends and anomalies in both raw numbers and in people. He has a firm background in strategic analysis and implementation, with many completed projects to his name, both large and small, that have improved the performance of his firm, in terms of both profits and performance. A true extrovert, Ross loves working with people, teammates, partners and clients. He enjoys presenting, and is comfortable leading a team. Most importantly, he believes in leading from the front, and inspiring those around him.*



## NSPE 2017 Northeast Regional Meeting

### Dinner Presentation

*Dinner runs from 6-10 p.m.*

*Presentation is Approx. 1.5 hrs.*

## An Evening with Alexander Hamilton

Written & Performed by Charles Stockbridge



The setting is December 23, 1800. The political atmosphere is super charged with a dead locked ballot for the Presidency, Jefferson & Burr. The Great Hamilton is speaking before a group of young scholars at Columbia College on a snowy evening....and YOU are his audience!

Please join us for this special evening  
with the great General Hamilton.

#### About the Presenter:

*Charles Stockbridge has been lecturing on the founding of the first United States currency and the restoration of the Public Credit put forth by Alexander Hamilton, in 1790, for the last ten years.*

*In this play – written and performed by himself – Mr. Stockbridge reenacts General & Treasury Secretary Alexander Hamilton in period attire*

