

# 2017 Technical Workshops Seattle

Presented in classrooms on the NECA Show floor  
(no additional cost)



## Sunday, October 8, 2017

12:30 PM      1:20 PM                      Standards and Safety

Presented by: Justin Pine, Specified Technologies, Inc.

### **TW-1: Firestop Compliance for Overfilled Sleeves**

Solutions are very limited for firestopping overfilled sleeves that are non-compliant. This session will discuss code requirements for sleeves and solutions available for code compliance. The major changes implemented in August 2016 within healthcare will also be discussed.

1:00 PM      1:50 PM                      Project Management

Presented by: Leonor Letson and Keith Williams, Sonepar

### **TW-2: The Digital Difference**

Adopting digital processes within an electrical distribution business can improve efficiency and productivity for you and your customer. This session will identify areas of improvement including project estimation, procuring material, inventory management and job management. Attendees will also hear about real-time pricing and inventory.

1:30 PM      2:20 PM                      Standards and Safety

Presented by: Ryland Marek, 3M

### **TW-3: Protecting Workers and Business from Common Safety Issues**

Workers may encounter many safety concerns at a jobsite, including: fall hazards, silica in construction and falling objects. This session will identify technology and tools available to protect workers and employers from injuries and discuss the potential impact of safety hazards on a business.

2:00 PM      2:50 PM                      Project Management

Presented by: Johnny Sellers, Southwire

### **TW-4: Connecting the Knowledge of the Engineer with the Knowhow of the Contractor**

The old days of design-bid-build construction delivery systems are quickly giving way to various collaborative design/assist/build models that require new levels of communication between the designers and the constructors. This session will discuss why installers must be able to adapt to the new ways information is flowing from the design team to the field, bridging the gap between the knowledge of the Engineer with the knowhow of the Contractor.

2:30 PM      3:20 PM                      Technology, Process, and Innovation

Presented by: Joey Baker, DIS-TRAN Packaged Substations

### **TW-5: Saving Time & Money: Utilizing a Customized Factory-Built Substation**

An investor-owned utility tried something completely new and used a Factory-Built Substation approach when building its standard open-air distribution substation. This session will showcase the project's objectives and describe the collaborative approach used by the utility and the substation manufacturer.

3:00 PM      3:50 PM      Technology, Process, and Innovation

Presented by: John Forsyth and Duke Dunford, Schneider Electric

**TW-6: Let Energy Monitoring Do the Heavy Lifting**

Commercial buildings and facilities represent an estimated 35% of energy demand and nearly \$150 billion in annual electricity revenue and energy solution providers are racing to take advantage of the Internet of Things. The rising demand for smart systems, meters and cloud solutions is creating tremendous opportunities, while highlighting skill gaps. This session will discuss what is needed to capitalize on this transformation by becoming trusted energy advisors.

3:30 PM      4:20 PM      Technology, Process, and Innovation

Presented by: Shane Siemer and Sam Adeyemo, Aurora Solar, Inc.

**TW-7: Modern Solar System Design**

The cost of solar is falling, partially due to modern technologies that enable installers to quickly design and sell solar and electrical contractors are positioned to succeed. This session will discuss how to use software to calculate the amount of shading and sun on a roof remotely, automatically design NEC-compliant solar panel and inverter configurations and quickly calculate the energy performance and financial return.

**Monday, October 9, 2017**

12:00 PM      12:50 PM      Technology, Process, and Innovation

Presented by: Richard Scott, ALL-TEST PRO

**TW-8: Electric Motor System Diagnostics**

The reliability and energy consumption of electric motors and the systems they drive has a direct financial impact on industrial and commercial enterprises. This session will discuss the financial justification for a motor testing program and de-energized testing methods and ideas for selling the service. We will also identify training requirements, safety considerations and options for contracting services.

12:30 PM      1:20 PM      Leadership and Communication

Presented by: Dan Carnovale, Eaton

**TW-9: Training the Next Generation Successfully**

It is important to take advantage of visual learning techniques to teach key electrical system concepts, as electrical systems are complex and difficult to understand from a design and troubleshooting standpoint. This session will identify best practices in education and training sessions to support our next generation of electrical contractors and advance safety and customer success. Concepts that can appear overwhelming can be easily explained through demonstrations and reinforced with classroom exercises and presentations.

1:00 PM      1:50 PM      Technology, Process, and Innovation

Presented by: Paul Wheaton, McCormick Systems

**TW-10: Design Build Using the Latest Technology Trends for Productivity**

This presentation will discuss how technology on the market today allows you to design, build, create and estimate at the same time and introduce you to the latest technology for the design build market.

1:30 PM      2:20 PM      Standards and Safety

Presented by: Michael Tesmer and David Jewell, WESCO

**TW-11: Applying Construction Fall Protection Concepts to General Industry**

OSHA's updated Walking-Working Surfaces and Personal Protective Equipment (Fall Protection Systems) Standards for General Industry went into effect in January 2017. These new standards adopted many of the fall protection requirements found in the construction standards that have been around since 1994. This session will discuss key components to this new standard and help employers understand how to apply them.

2:00 PM      2:50 PM      Technology, Process, and Innovation

Presented by: Jeff Burmeister, Project Doc Control

**TW-12: Living in a Network Economy**

Technology is changing the construction industry. Entire industries like the taxi industry and hotel industry have new market leaders that own no cars or buildings and the network economy will affect our industry too. Will you go the way of Uber or the taxicab?

2:30 PM      3:20 PM      Standards and Safety

Presented by: Steve McCasland, Tasco, Inc.

**TW-13: Loading and Tracing Electrical Circuits**

This session will discuss the use of test instruments for tracing, locating and identifying electrical wire and cable. These tools require an understanding of current flow and how it uniquely relates to and affects the signals used for tracing both energized and de-energized electrical circuits.

3:00 PM      3:50 PM      Project Management

Presented by: Tom Simeone and Jason Isaacs, Milwaukee Tool

**TW-14: The Evolution of Temporary Lighting**

Developments in temporary lighting are improving safety, productivity and overall costs. This session will discuss emerging technologies in job-site lighting such as LED and lithium-ion batteries and will use case studies to show how job-site lighting upgrades have positively impacted electrical contracting businesses.

**Tuesday, October 10, 2017**

9:30 AM      10:20am      Technology, Process, and Innovation

Presented by: Eric Haugaard, Eric Haugaard

**TW-15: Smart Buildings: Integrating PoE with the IoT**

This session will show how the Internet of Things (IoT) and Power over Ethernet (PoE) will continue to change our world in increasing ways. Practical applications, as well as current trends that lead to smarter buildings, enhance the user experience and provide access to “Big Data” and analytics and save energy will be discussed.

10:00 AM      10:50 AM      Standards and Safety

Presented by: Steve Jackson, IISCO

**TW-16: NEC 2017: To Torque, or Not to Torque. That is the Question**

NEC 2017 110.14(D) requires the use of a calibrated torque tool for connections when manufacturers indicate tightening torques. This session will discuss test data of set-screw torque, how it relates to force and its ultimate impact to connector performance. We will also review how the NEC 2017 change impacts installations and inspections.

10:30 AM      11:20 AM      Technology, Process, and Innovation

Presented by: David Burczyk and Judy Miller, Trimble

**TW-17: 3-D Laser Scanning to Prefabrication: An Electrical Perspective**

This session will discuss an electrical project starting from a scanning opportunity and then through the design, prefabrication and field layout workflows. We will outline the steps of the project, including turning laser scans into 3D models, optimizing prefabrication and leveraging modeling data to quickly and accurately install prefabricated items and hangers using robotic total stations.

11:00 AM      11:50 AM      Project Management

Presented by: Ben Schultz, Labor Chart

**TW-18: Forecasting Manpower**

This session will identify techniques to estimate when people will be needed, how many will be needed and the typical ramp and ramp down of projects. We will also discuss how to create a baseline of people required to complete a project and recognize, at what point in a project you should expect the "peak crew size."

11:30 AM      12:20 PM      Technology, Process, and Innovation

Presented by: Nishaant Saxena, Sanveo, Inc. and Damian Dudley, Morrow Meadows

**TW-19: Increasing Efficiency for BIM Using Virtual Desktop Infrastructure**

This session will discuss how a virtual desktop interface enables employees to access a virtual desktop from any phone, tablet and computer with an internet connection and reduce sync time for Revit models from around 40 minutes to less than 2 minutes.