



The electrical and telecommunications industry news in Eastern MA, ME, and NH

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A quarterly publication of the Boston Chapter of the National Electrical Contractors Association

## POWERPOINTS

*A Message from the Executive Manager*

### Greater Boston Construction Industry Poised for Bright 2017

In this issue of Connections, we provide an overview of the 2016 NECA Convention and Trade Show, held in Boston in October. It is an honor that NECA Boston and our great city again hosted the electrical industry's leading

convention and expo. NECA Boston 2016 had it all, featuring the latest advances in all areas of electrical and tel/data construction, from power supply to safety equipment, and from integrated building systems to energy storage. And its vital educational programs imparted critical knowledge to NECA Boston contractors and their colleagues from around the U.S. and the world, with management and technical workshops covering everything from BIM to Prefabrication and Labor Productivity to Standards & Safety, and more.

We also cover just a few recent projects handled by our contractors – J&M Brown and State Electric at One Seaport Square, Lighthouse Electrical at the Regal Fenway Theatre renovation, and Gaston Electrical's solar installation at their Norwood headquarters.

As we look forward to 2017, the industry in eastern New England, and especially in Greater Boston, continues its vibrant run. Major projects are underway in most market sectors, and NECA Boston contractors are at the forefront, efficiently installing electrical, fire alarm, lighting, tel/data, security, and building automation systems at state-of-the-art new facilities and in historic renovations.

Here are just two landmark projects we look forward to reporting on in the coming year. The Wynn Boston Harbor resort casino in Everett, now underway, holds promising opportunities for NECA contractors bidding to build its infrastructure, world class hotel and casino over the next several years. And on the near horizon, GE's world headquarters' campus in the Fort Point Channel area is a 2.4 acre project encompassing the historic renovation of two existing buildings and construction of a new 12-story building.

We also will cover many of the important educational, healthcare, biotech, high-tech, and infrastructure projects that NECA contractors are building throughout eastern New England.

Here is to a bright holiday season and year ahead. ■



Glenn Kingsbury

## INDUSTRY NEWS

### New England Electric Group and Murphy Electric & Industrial Control join NECA Boston

NECA Boston Chapter welcomes our two newest members. **New England Electric Group**, headquartered in Bolton, MA, provides electrical construction services for commercial projects in Boston and Eastern MA. Services include ground-up electrical construction, fire alarm systems, tenant fit-out, building automation systems, preventative maintenance, and infrared scanning.

**Murphy Electric & Industrial Control, Inc.**, based in Pembroke, MA, provides electrical services for utility and commercial projects throughout Eastern MA. The company handles construction of substations and switchyards, and specializes in power and control wiring for natural gas transmission and distribution companies. The firm's Control Division provides HVAC control and building automation system installations.

### NECA Boston's Electrical Project Supervision Course

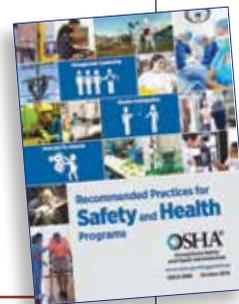
This fall, NECA Boston Chapter conducted a five-session Foremen Training course, *Introduction to Project Supervision* at the Greater Boston JATC. Wentworth faculty member Wayne DelPico covered such wide-ranging topics as collective bargaining agreements, job site documentation, material purchasing, crew communications, contract basics, scope of work, scheduling, and setting performance milestones.

### Gaston Electrical presents to Wentworth Chapter

At the October NECA Boston/WIT Student Chapter meeting, Gaston Electrical Project Manager Adam Stanieich met with Wentworth students, discussing career paths in project management.

### OSHA Releases New Recommended Practices for Safety & Health Programs

Published in October, it presents a step-by-step approach to implementing a successful safety and health program, and can be downloaded at <https://www.osha.gov/shpguidelines/>



## CONNECTIONS

CONNECTIONS is a quarterly publication of the Boston Chapter of the National Electrical Contractors Association / Electrical Contractors Association of Greater Boston, Inc., 106 River Street, West Newton, MA 02465. Phone 617-969-2521. Mission: CONNECTIONS is designed to provide information relating to current happenings in the electrical construction industry in Eastern Massachusetts, Maine, and New Hampshire and to report activities of the Boston Chapter of NECA and its members. Your comments are welcome. We can be reached via e-mail at: [info@bostonneca.org](mailto:info@bostonneca.org)

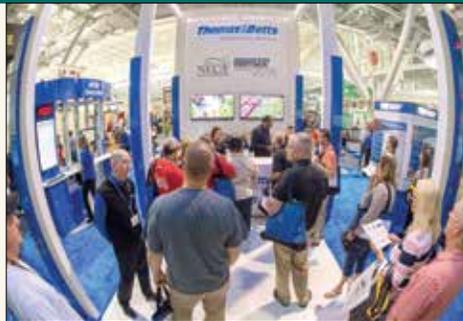


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# Electrical Construction Industry Shines Brightly at NECA Boston 2016

Event draws 6,800 electrical industry professionals and nearly 300 exhibitors

**B**OSTON, MA — The electrical industry's largest trade show and convention, NECA 2016 Boston, was held at the Boston Convention and Exhibition Center, October 7 - 10. More than 6,800 electrical construction professionals from throughout the U.S. attended, gaining a hands-on view of the latest advances in electrical products and technologies. Thousands of solutions NECA contractors use to connect commercial, industrial, healthcare,



biotech and educational facilities as well as infrastructure projects with the most energy-efficient power, lighting and integrated systems were on display at the trade show. The 2016 NECA show marked the third time in 10 years that Boston has been the site of the annual national convention, as NECA Boston Chapter served as the hosting chapter. ■

## NECA Boston the hosting chapter for industry's largest, most dynamic trade show and convention



**T**he trade show floor was a virtual classroom, providing the latest technological advances in such areas as power supply,

security, tools, integrated building systems, lighting and controls, solar/PV and other energy markets. At NECA 2016 Boston, nearly 300 exhibitors, comprised of the industry's most prominent and innovative electrical manufacturers, distributors, and service organizations, connected with NECA contractors and their construction industry partners. Such names as Milwaukee Tool, 3M, Ericson, Fluke, ElectrInternational, Flir, GE, Graybar, Honeywell Power, Klein Tools, Lutron, Philips, Southwire, Greenlee, McCormick Systems, ConEst Software Systems, Wesco, Klein Tools,

Panduit, Siemens Industry, SolarDock, DeWalt, Schneider Electric, Thomas & Betts, and the NFPA featured the latest products and services in all areas of electrical construction business, including: • Building Automation & Controls • Building Information Modeling (BIM) • Codes, Standards, Certifications • Conduit, Raceway • Life Safety • Green Energy • Lighting and Lighting Control Systems • Motors Safety Equipment • Security Systems • Site Equipment • Solar (PV) Energy • Structured Cabling • Testing Equipment • Transformers • Voice, Data, Video. ■

## Powerful Educational Programs keeping NECA contractors at the forefront

**N**ECA 2016 Boston featured a dynamic educational component for electrical contractors, estimators and project managers. Industry experts conducted pre-convention workshops, technical workshops and management seminars on business practices and building technologies that keep NECA contractors the most adept in the industry, and their construction industry clients up-to-date with power, lighting, tel/data, and integrated building systems. The range of topics covered



diverse aspects of the industry, including: • 2017 NEC Signification Changes • PV as an In-

tegrated Building Solution • Lean Construction • LED Lighting Systems: Energy-Efficiency and Beyond • Prefabrication • Electrical BIM Beyond Coordination • Building Intelligence in Electrical Design and Construction • Building Prefabrication Shops • Prefabricated Duct Bank Systems • Low-Voltage Landscape Lighting • Using Technology to Manage an Efficient Construction Workflow • Energy Storage and Microgrid Training Initiative • New Rules for Large Scale PV Systems, Energy Storage Systems and DC Microgrids. ■

## Glenn Kingsbury, NECA Boston Executive Manager Inducted into Academy of Electrical Contracting



**G**lenn was inducted at the General Session of the NECA Convention. The Academy honors outstanding leaders in the electrical contracting field and utilizes their experience and knowledge to benefit the future of the construction industry. Fellows of the Academy prepare special papers on aspects of electri-

cal construction in which they have expertise, and also participate in long-range studies. Glenn will serve with three active NECA Boston colleagues in the Academy: Thomas Driscoll of E.S. Boulous Company, Paul Guarracino of J.M. Electrical Company, and John Penney of John A. Penney Company. ■



# Education, Emerging Leaders & Technologies, Safety, Networking in Spotlight

## More than 400 New England Apprentices Attend Workshop and Industry's Largest Trade Show

NECA Boston Chapter and JATCs from throughout New England proudly hosted the national convention's first Apprentice Day on October 8th, as nearly 500 electrical and telecom apprentices first attended a special workshop, and then enjoyed free admittance into the industry's leading trade show.

Kristen Gowin, Assistant Manager of NECA Boston Chapter, NECA Boston President Joe McCluskey of E.G. Sawyer, and Michael Monahan, IBEW International Vice President, Second District welcomed the apprentices, poignantly speaking of the industry's most

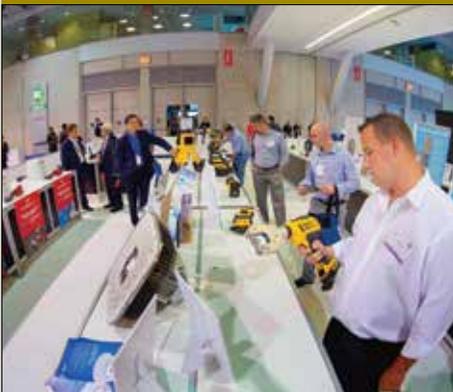


in-depth training program, the history of the IBEW and the bright future the industry holds. Michael Callanan, of Michael Callanan Consulting and former Executive Director of

the NJATC, presented the keynote address on leadership. Also addressing the apprentices on their future careers and trends in the industry were representatives from the NECA Premier Partnership Program – Shane Moll of Milwaukee Tool and Jon Huizenga of Graybar.

Following the workshop, Katie Nolan McCormick, NECA's Director of Meetings gave the apprentices a walkthrough of the trade show floor and they then spent the day at the show, gaining firsthand views of, and insights into, the latest technologies and product advancements in the electrical industry. ■

## 2016 NECA Showstopper Showcase



SHOW PHOTOGRAPHY: EPNAC

2016 NECA Showstopper Showcase, sponsored by *Electrical Contractor Magazine*, is the most prestigious recognition event for manufacturers in the electrical construction industry. The Showcase highlights the newest products and services on the market, innovative advancements designed to help electrical contractors on the job. Just a sampling of products that were showcased at the NECA trade show included:

- Hilti 12 Volt Sub-compact 3-tool Combo
- DeWALT 20V Max Area Light Kit • Milwaukee Tool's M12 Infrared Camera and M18 Sawzall

with One-Key • Fluke Flex Volt 20/60V Max Battery Pack • Flir DM284 Imaging Multimeter with IGM • Greenlee's BendWorks V2.0, a software application making BIM processes easier and ensuring conduit runs are error-free. • Acuity Brands' NLight Air Wireless Control Solutions with embedded smart sensor • Schneider Electric's PowerPact B Circuit Breakers • Leviton's Dual Function AFCI/GFCI Receptacle that delivers protection from the hazards of electrical fires and shock. ■

## Safety Roundtable & 2017 National Electrical Code

At NECA's eighth annual Safety Roundtable recent updates in OSHA regulations were discussed, including the Final Rule on Silica, the new Safety and Health Program Guidelines and the recent release of Recordkeeping and Reporting Requirements.

Michael J. Johnston, Executive Director of Standards and Safety, NECA, and Wesley L. Wheeler, Director of Safety moderated.

The NFPA exhibit featured the 2017 National Electrical Code, released this fall and available at [nfpa.org](http://nfpa.org) ■



## Boston Pops Closing Ceremony at Symphony Hall – Stars and Stripes Forever!

## INSTALLATIONS

### J&M Brown in Progress with Core & Shell Electrical Construction of One Seaport Square, Boston

**Architect: Elkus Manfredi Architects; EE: Cosentini Associates; CM: John Moriarty & Associates, Winchester; Developers: Boston Global Investors, Berkshire Group, W.S. Development**

**B**OSTON, MA — **J&M Brown Company (JMB)**, headquartered in Jamaica Plain, MA, is well underway with electrical construction of One Seaport Square, the Seaport district's most vibrant new mixed-use project. The Seaport Square parcels B&C project features two 22-story towers that will house 850 apartments and over 300,000 square feet of retail and entertainment space, with three levels of below-ground parking.

J&M Brown's scope entails the installation of primary and emergency power for One Seaport Square, as well as a complete fire alarm system throughout the complex. JMB is also installing lighting in the lobby, rooftop terraces and exterior public realm areas.

**Spectrum Integrated Technologies**, the low-voltage division of J&M Brown, is providing the facility's complete security and a design-build A/V system.

The project has a phased turnover schedule with many unique challenges. Building B, levels P3 through floor 10, comprise the first turnover. Retail suites and residential units will be occupied on these floors, while construction will be ongoing on floors 11 through 22, and in all of Building C. In providing installation the fire alarm system, JMB must ensure the main fire alarm control panels for both buildings

are fully operational and tested, along with all system devices that are required to cover areas open to the public or maintenance personnel.

J&M Brown VP Bryan Greene and Sr. PM

Michael Booker are heading the project team with an electrical crew upwards of 50 IBEW Local 103 electricians at peak construction. ■

#### PROJECT HIGHLIGHTS



**J&M Brown Sr. Project Manager Michael Booker commented on logistical challenges: "The location of the emergency life safety generator makes their installation and tie-in demanding. The design team is utilizing the roof areas of the complex as amenity space for the residents. To reduce the overall footprint of the emergency life safety generators, they are positioned on the 9th floor roof of Building C. The only connection between the towers is the underground parking garage. In order to provide emergency life safety power, the JMB crew must run two-hour fire-rated cable over**

**1000 feet – from the 9th floor of Building C, across the parking garage and up to the 4th floor of Building B."**

**The location of the generators also adds to the project scheduling challenges that must be met by the NECA contractor. The first phase of Building B is to be turned over six months before the first turnover of Building C. To achieve this, J&M Brown must make some temporary provisions for egress so that their crew can install the facility's permanent two-hour life safety cable and meet the project's overall schedule.**

### State Electric Underway with Electrical Fit-out of One Seaport Square

**B**OSTON, MA — **State Electric Corp.**, based in Bedford, MA, is in progress with the power distribution and tenant fit-out project at the twenty-two story, twin tower, mixed-use Seaport Square facility. State Electric began construction in April of 2016 and is on schedule to complete the project in August 2017.

State is furnishing complete electrical installations and power distribution to each of the 832 luxury units, as well as residential metering equipment installations on each of the residential floors, and lighting controls for the 4th floor amenities.

In early stages, State Electric was brought in to modify the power distribution equipment, coordinating their efforts with general

contractor, John Moriarty & Associates of Winchester, Massachusetts, fellow NECA member J&M Brown, distributor Graybar, and the manufacturer, Square D. "In our prefab



RENDERING: ELKUS MANFREDI ARCHITECTS

shop we assembled and labeled the equipment and created a very specific schedule for just-in-time deliveries from the prefabrication

shop to specific work areas on different floors which greatly reduced both storage fees and our footprint on the project," said Luke Rebisz, Project Manager, State Electric.

In another pre-construction phase aspect of the project, State Electric reviewed outdoor outlets that had been specified on the balconies and realized they didn't have the ability to keep the curtain wall waterproofing intact. "In responding to the prospective issue, State worked with the general contractor in creating a prefabricated type of cable, which was shipped to the curtain wall company based in Canada, assembled, and delivered to the site," said Rebisz. ■



NECA Boston's Kristen Gowin, Tom Driscoll, Joe Bodio, and Michael McDonald join with Local 103 Bus. Mgr. John Dumas and Apprentices



NECA Boston's Office Manager Lee Bagley and Benefits Administrator Marianne Ryan with Peter Stoller, Exec. Dir. of Rochester Chapter NECA, and Chad Jones, Exec. Dir. and Cody Phillips, Asst. Dir. of Western PA NECA



## Highlights from the Electrical Industry's Largest Trade Show & Convention in Boston!

NECA  
Boston  
2016  
OCT. 7-10



NECA SHOW PHOTOGRAPHY: EPNAC

BOSTON CHAPTER PHOTOS: ANDREW HORVITZ



NECA Boston's Glenn Kingsbury, John Penney and Joe Bodio meet at the NECA Boston's show booth



NECA Boston's Assistant Manager Kristen Gowin and JATC Training Instructor and Mentor Jan Hagan

## INSTALLATIONS

### Lighthouse Electrical Shines in Regal Fenway 13 Theater Renovation

**B**OSTON, MA — **Lighthouse Electrical Contracting, Inc.**, based in Rockland, MA, has completed the renovation of the Regal Fenway Stadium 13 Theater complex at the Landmark Center on Brookline Avenue in Boston. The NECA contractor provided demolition and renovation of nine theaters at the Regal Theatre complex, as well as electrical installations for the new Regal Fenway



#### PROJECT SCOPE

The scope encompassed installation of motorized recliner seating, new speakers, exit signs, and stair lighting in nine of the Regal Fenway's 13 theaters. The new Regal Fenway cinema bar features dramatic neon lighting and is equipped with convenience outlets. The contractor also installed new corridor lighting at the complex.



theater bar. Lighthouse Project Manager Scott Sullivan headed the project team, supervising a crew of IBEW Local 103 electricians in the fast-track 4-month project.

The NECA Boston contractor worked on the project with general contractor Baker Incorporated of Middleton, MA. ■

### Gaston Electrical Partners with Solect Energy in Bringing Solar Energy to Norwood Headquarters

**N**ORWOOD, MA — **Gaston Electrical Co., Inc.**, a NECA Boston Chapter electrical contracting company serving New England's commercial, institutional, and retail markets, partnered with Solect Energy to install a 175.8 kilowatt (kW) rooftop solar system, consisting of 676 solar panels, at the company headquarters in Norwood, Massachusetts. The installation advances Gaston's ongoing initiative to increase its sustainable practices and make a positive environmental impact in the area.



Since the installation in March of 2016, Gaston has already produced more than 92,000 kilowatt-hours (kWh) of solar energy on its 22,000 square foot roof, helping to eliminate 55 tons of carbon dioxide emissions from the atmosphere. The company expects to see significant savings on electricity costs in its first year of production.

leader in solar adoption in the region," said Brian Herr, Vice President of Sales at Solect. "The system is a cost-effective choice for Gaston, and represents a big step forward toward their goal of being one of the greenest companies in the area."

Many of Gaston Electrical's projects are performed in energy-efficient and LEED-certified buildings. This exposure was a significant factor in the company's decision to develop its own green program. Prior to installing solar,

"As a prominent electrical contractor working on some of the largest development projects in the Boston area, we understand the importance of clean energy for the environment, and for tenants and property owners seeking to occupy and operate more efficient buildings," said Bill Weber, Jr., Principal

at Gaston Electrical. "Our headquarters in Norwood features a large flat roof, which presented an untapped resource and perfect opportunity for a solar system."

"It was a pleasure working with Gaston Electrical to position the company as a

Gaston implemented other environmental initiatives, including motion-activated lighting throughout its headquarters, and other efficiency systems designed to conserve resources. ■

## INDUSTRY RELATIONS

### NECA Boston, McDonald Electrical host Chilean Delegation Walkthrough at Harvard Kennedy School and 1350 Boylston

**O**n October 11th, following the NECA convention, **NECA Boston** and **McDonald Electrical** provided an electrical construction delegation from Chile a walkthrough of two dynamic McDonald project sites:



the Harvard Kennedy School in Cambridge and the 1350 Boylston Street residential high-rise, a Skanska USA project. ■

