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

POWERPOINTS

A Message from the Executive Manager
NECA and The Power of Management Training

In the world of electrical and tel/data construction, knowledge truly is power. Management education is critical to success in today’s highly competitive, technology-driven construction environment, especially given ever-changing technologies and construction processes that are geared to project productivity and building energy efficiency. And NECA Boston is proud to continue our leadership in presenting dynamic management education programs for our members, and future members.

Ongoing courses in such areas as Advanced Project Management (see page 5) and Advanced Foreman Training, conducted by leading industry professionals, are geared to keeping our contractors the industry’s best informed and most qualified in matters related to project productivity, technology, and worksite safety.

These and a few upcoming educational events are illustrative of our educational efforts. In May, NECA Boston will conduct a Building Information Modeling (BIM) & Revit MEP Workshop at Boston’s JATC Electrical Industry Training Center. NECA Boston contractors will also attend NECA’s Safety Professionals Conference in Indianapolis in May to keep up-to-date on safety regulation and compliance issues and new standards development. (See article on page 6.)

Concurrent to educational programs for contractor members, NECA’s commitment to building the next generation of electrical industry professionals is vital. The NECA Boston / Wentworth Institute Student Chapter is in the midst of a very active year, to be highlighted by the Chapter’s entry into the national Green Energy Challenge. The project, comprised of comprehensive energy efficiency upgrades at Maurice J. Tobin School in Boston, will be presented to the national NECA judging committee later this summer. (See article on page 5.)

Whether it is in the construction of dynamic new buildings that are underway and planned throughout Greater Boston and Eastern New England, or renovations to existing facilities, it is important continued on page 3

INDUSTRY NEWS

NECA Boston Chapter’s 2016 Board of Directors

WEST NEWTON, MA — The National Electrical Contractors Association (NECA) Boston Chapter confirmed its 2016 Directors and Officers (see photo) at its Annual Chapter Meeting in January. Chapter President Joseph McCluskey, Jr., – E.G. Sawyer Company, Inc. is serving the first year of a 2-year term.

Seated (l to r):
Joseph Bodio, Governor – LAN-TEL Communications
Joseph McCluskey, Jr., President – E.G. Sawyer Co., Inc.
Michael McDonald, Vice President – McDonald Electrical Corporation

Standing (l to r):
Kristen Gowin, Assistant Manager – NECA Boston Chapter
Alan Scharfe, Secretary – John A. Penney Company, Inc.
Kathleen Guinee, Director – Aetna Fire Alarm Service Co., Inc.
John McLaughlin, Director – Sullivan & McLaughlin Cos
David Noon, Director – J. & M. Brown Company, Inc.
Glenn W. Kingsbury, Executive Manager

Additional Board Members (not in photo):
Thomas Driscoll, Director – E.S. Boulus Company
Paul Guaracino, Director – J.M. Electrical Company, Inc.
Ronald Koning, Jr., Director – State Electric Corporation
John Quinci, Director – Cruz Electric, Inc.
Gregory Sapochetti, Director – J.F. White Electrical
Stephen Scarponi, Director – Scarponi Electric, LLC

Aldon Electric, Inc. Joins NECA Boston Chapter

WESTON, MA — NECA Boston Chapter welcomes Aldon Electric, Inc., based in Weymouth, MA, as a new member. Aldon is a full-service electrical contracting firm providing comprehensive electrical, fire alarm, tel/data, A/V, and solar (PV) system installations and maintenance for facilities throughout Greater Boston and Eastern Massachusetts. (See Aldon Electric’s Olmsted Place article on page 3.)
BOSTON, MA – McDonald Electrical Corp. (MEC) has completed the comprehensive electrical renovation project at 333 Summer Street, including the tenant fit-out of expanded offices for software connectivity company, LogMeIn, in Boston’s Seaport district. The project scope comprised MEC’s installation of new base building’s power and electrical distribution systems, interior lighting and lighting control, and life safety/fire alarm systems at the 115,000 square-foot, 8-story building.

McDonald met the aggressive 7-month project schedule, managing a field crew of 32 IBEW Local 103 electricians. The project was completed in December 2015.

The new office is home to LogMeIn’s product, marketing and sales teams, as more than 285 staffers moved into the facility in January. The company plans continued expansion over the next several years and the 333 Summer Street office can accommodate a staff of 480. LogMeIn, a publicly traded tech company (LOGM) with cloud-based service offerings, is headquartered in Boston, across the street at 320 Summer Street.

McDonald Electrical provided electrical installations at the headquarters facility in 2014.

**PROJECT SCOPE**

Integral to the project was the installation of a new 2500A / 280V, 3-phase electrical service from a new utility transformer. McDonald also installed a new 175kW Life Safety Generator and a 100kVA UPS with a power distribution unit for data center power.

### Spectrum IT Completes Comprehensive AV Project at PriceWaterhouseCoopers’ Regional Headquarters in Boston Seaport

**PROJECT DETAILS**

JAMAICA PLAIN, MA – Spectrum Integrated Technologies (Spectrum IT), the low-voltage division of J. & M. Brown Company, has completed an elaborate, fast-track, state-of-the-art AV infrastructure project at PriceWaterhouseCoopers’ Northeast headquarters facility at 101 Seaport Ave in Boston. The project commenced in March 2015 and was completed, as scheduled, by the end of October.

Spectrum’s PM Michael Anderson and GF Kristin Hurley managed a skilled field crew of 15 IBEW Local 103 technicians in the 8-month project. The project commenced in March 2015 and was completed, as scheduled, by the end of October.

The NECA Boston contractor worked on a project team with general contractor Skanska and electrical engineering firm AVI-SPL.

The project encompassed Spectrum’s AV wiring and installations on 17 floors of the building, covering more than 350,000 square feet. More than 340 TVs and video displays were installed, including 15 projectors and projection screens.
BOSTON, MA. — Aldon Electric, Inc., of Weymouth, MA, has completed electrical construction of the new 5-story, 189,000 square-foot Olmsted Place luxury residential building in Jamaica Plain, MA. The project included installation of the building’s primary and emergency power, lighting and lighting control system, fire alarm, and fit-out of Olmsted Place’s 193 residential units, fitness center, club room, private dining room, and the management office. The NECA contractor also provided electrical installations for the building’s 170-car underground parking facility.

Aldon Electric supervised a crew of 10 IBEW Local 103 electricians during the 18-month project, which was completed as scheduled in fall 2015.

Founded in 1986 by company principals Allen Mullaney and Donald Mullaney, Aldon Electric provides electrical and integrated system services to prominent facilities in commercial, educational, healthcare, hotel, research, mixed-use residential, and retail markets. Prominent projects recently completed include the Suffolk University Science Center at 20 Somerset Street in Boston, and New England’s largest solar parking canopy at Bristol Community College in Fall River. (see article below)

FALL RIVER, MA. — Aldon Electric, working as a subcontractor to solar developer Sun Edison, completed a 3.187MW solar PV parking canopy at Bristol Community College (BCC) in Fall River, MA in 2015. The solar array covers more than 6 acres and will generate over 34 million kWh of energy annually, enough to power the electricity needs of the campus, and result in an estimated energy savings of more than $1.75 million for the college over 20 years.

Aldon supervised a field crew of 50 IBEW Local 103 and Local 223 electricians at peak construction.

Aldon Electric, Sun Edison complete New England’s largest solar parking canopy at Bristol Community College, Fall River, MA

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POWERPOINTS NECA and The Power of Management Training

for facility owners and construction industry partners to know that the electrical contractors charged with installing systems that power, interconnect, secure, protect, and upgrade their facilities are fully up-to-date with the latest construction processes, technologies, and code requirements. NECA Boston, through a vibrant continuing education program, looks forward to delivering on that promise.
Installations
An inside look at recent projects completed by NECA Greater Boston Chapter members

J.M. Electrical and 621 Energy Complete Solar Installation at Massachusetts General Hospital Facility in Charlestown, MA

CHARESTOWN, MA — NECA Boston contractor, J.M. Electrical Company, Inc., based in Lynnfield, recently partnered with solar developer 621 Energy, of Concord, Massachusetts in completing installation of a 476 kW solar photovoltaic (PV) rooftop system that will power the Massachusetts General Hospital (MGH) research and parking facility at MGH Building 199 at the Charlestown Navy Yard in Charlestown.

J.M. Electrical managed a field crew of 10 IBEW Local 103 electricians at peak construction and supervised day-to-day operations in the three-month project that was completed as scheduled in early March 2016. The project team was headed by J.M. Electrical’s Project Manager Adam Palmer and Foreman Hugh MacKinnon.

“We are excited to provide a leading hospital in the region with a smarter energy system to support the needs of the facility,” said Bob Clarke, President at 621 Energy. “J.M. Electrical has a strong track record and we appreciated working with them to ensure the solar project’s successful completion.”

“This was an incredibly rewarding project that allowed us to work with a commercial solar developer in Massachusetts on one of the country’s leading hospitals in order to give them a reliable source of power through clean, solar energy,” said J.M. Electrical PM Palmer. J.M. Electrical’s partnership with Massachusetts General Hospital includes providing on-site building automation and electrical support for any critical projects at the various MGH healthcare facilities.

PROJECT HIGHLIGHTS

The MGH solar PV system, designed by 621 Energy, is comprised of 1,487 solar panels and 17 solar inverters. The solar panels are mounted to a state-of-the-art racking system designed to withstand high winds.

The system is expected to generate 568,000 kW hours of energy in its first year and save the hospital approximately $95,000 annually.

LEGISLATIVE NEWS

NECA Boston Legislative Committee Meets with U.S. Rep. Katherine Clark
Key industry issues discussed – energy efficiency tax credits, infrastructure funding, multiemployer pension plans

WEST NEWTON, MA — On Monday, March 21st, members of NECA Boston’s Legislative Committee met with Congresswoman Katherine Clark from Massachusetts 5th District. The Chapter recognized her support for the end-of-year Tax Extenders package, the Omnibus Appropriations Act, and the FAST Act. Each bill included critical components that can allow Massachusetts construction industry to continue to thrive, including: the two-year delay of the Cadillac tax, the extension of the wind and solar ITC, the permanency of the R&D and energy-efficient commercial building (179D) tax credits, and the $3.2 billion in funding provided for Massachusetts’ transportation and infrastructure. The committee also asked for her support on the Multiemployer Pension Plan legislation.

L – R: Legislative Committee members Kathleen Guinee, Joseph Bodio, Michael McDonald, Matthew Guaracino, U.S. Rep. Katherine Clark, Chapter President Joseph McCluskey, Jr., Michael Morris of Beacon Strategies Group, Greg Sapochetti, NECA Assistant Manager Kristen Gowin and Chapter Executive Manager Glenn Kingsbury
Boston, MA. – The Wentworth Student Chapter has mapped out preliminary plans for their 2016 NECA Green Energy Challenge project – comprehensive energy efficiency upgrades at the Maurice J. Tobin School in the Mission Hill area of Boston. The Student Chapter had a preliminary walkthrough and initial analysis of the school early this year. Their subsequent pre-proposal includes providing:

- an energy efficiency analysis focused on the school’s heating and heating control systems;

- a prospective retrofit of current lighting with LED lighting fixtures and wireless daylight sensors;

- and solar PV installations comprised of a 6kW system that will serve as a part of the school’s curriculum to teach students the importance of renewable energy, and also a 200kW solar PV system on the school’s roof.

Three finalist student chapters will present at the NECA 2016 Convention in Boston at the BCEC in October.

MassBay Electrical On Track as Gleaming Government Center Station Reopens

Architect: HDR Engineering, Boston, MA; GC: Barletta Engineering Heavy Division, Canton, MA


Mass Bay provided a new electrical system, enhanced lighting, fire alarm system, LED signs, security systems, paging, and emergency lights for the station’s new headhouse and its Green Line and Blue Line stations. The contractor supervised 20 - 25 IBEW Local 103 electricians at peak construction throughout the two-year project, headed by project managers Rick Broderick and Vince Urbanski and general foreman Wayne Banks.

Government Center Station is the third oldest subway station in the U.S. and among Boston’s busiest, as an estimated 10,000 residents and commuters access the MBTA Green and Blue Lines through the station daily.

NECA Wentworth Student Chapter’s Green Energy Challenge Project Progresses

Boston, MA. – The Wentworth Student Chapter has mapped out preliminary plans for their 2016 NECA Green Energy Challenge project – comprehensive energy efficiency upgrades at the Maurice J. Tobin School in the Mission Hill area of Boston. The Student Chapter had a preliminary walkthrough and initial analysis of the school early this year. Their subsequent pre-proposal includes providing:

- an energy efficiency analysis focused on the school’s heating and heating control systems;

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Three finalist student chapters will present at the NECA 2016 Convention in Boston at the BCEC in October.

NECA Boston to hold Revit MEP and BIM Workshop

Boston, MA. – NECA Boston will hold a Revit MEP and Building Information Modeling (BIM) Training workshop on May 23 and 24 at the Greater Boston JATC Electrical Industry Training Center. The program, conducted by Microcad’s Tom Cassel, will be designed to provide NECA members the tools for parametric engineering design and documentation within Revit MEP. Schematic design, system analysis, construction documentation, design visualization, and performance analysis are among topics to be covered.
The National Electrical Contractor’s Association (NECA) 2016 Safety Professionals Conference (NSPC), the electrical construction industry’s premier annual safety event, provides the most useful and up-to-date information on regulation, compliance, management techniques and standards that impact safety and health in the electrical construction industry. Safety directors, project managers, human resource and supervisory personnel from NECA member contractors nationwide are scheduled to attend and will learn the latest information on OSHA regulations and industry best practices. Learn more and register for NSPC, scheduled May 23 – 25 in Indianapolis, at necasafetyconference.com.

**STATE-OF-THE-ART TRAINING**

The facility walk-through gave the state officials a first-hand look at the industry’s most advanced motor control center, tel/data training workshop, A/V training facility classroom, safety training facilities, and much more. Currently, 983 apprentices registered in the NECA and IBEW co-sponsored JATC five-year program, the most in the program’s history, according to O’Connell.

**NECA Safety Professionals Conference Set for May 23 - 25 in Indianapolis**

The National Electrical Contractor’s Association (NECA) 2016 Safety Professionals Conference (NSPC), the electrical construction industry’s premier annual safety event, provides the most useful and up-to-date information on regulation, compliance, management techniques and standards that impact safety and health in the electrical construction industry. Safety directors, project managers, human resource and supervisory personnel from NECA member contractors nationwide are scheduled to attend and will learn the latest information on OSHA regulations and industry best practices. Learn more and register for NSPC, scheduled May 23 – 25 in Indianapolis, at necasafetyconference.com.

**NECA Advanced Project Management Seminars in Portsmouth, NH & Boston**

West Newton, MA – The NECA Boston Chapter held seminars in project management on February 21st in Portsmouth, New Hampshire and February 22nd in Boston at the Greater Boston JATC. The full-day NECA continuing education course, conducted by acclaimed productivity consultant, Norb Slowiskowski, of Slowiskowski & Associates, provided attendees with management expertise required to efficiently direct the entire project life cycle, from project start-up to close-out. Project managers from NECA electrical contracting firms Atlantic Power & Light, E.S. Boulos Company, LAN-TEL Communications, MassBay Electrical, and United Solar attended the seminars, which focused on process and productivity improvement. Among the topics covered were conducting a productivity assessment; managing the labor budget; and job controls for each phase of the construction process. Proven management and leadership techniques were presented by Slowiskowski, who has trained more than 20,000 project managers, superintendents and foremen.

**SAFETY NEWS**

**CONTINUING EDUCATION NEWS**