



CONNECTIONS

Western Ohio Chapter • National Electrical Contractors Association



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April, 2014

NECA Awards of Excellence

Why choose a NECA Contractor?

As the owner of a construction project, your objective is to hire an electrical contractor that can handle their portion of the work in an efficient, safe, quality minded way. You want to be confident that they can oversee their own employees and meet your budget and timeline. Since 1901, the National Electrical Contractors Association (NECA) has been at the forefront in training, research, technology and standards development. Here's why you should work with a NECA Contractor.

Training and Education

Consistent, excellent workmanship can only come from a highly trained workforce. Make sure that the electricians hired by the contractor are well-trained in electrical wiring procedures, the National Electrical Code (NEC) standards, and safety precautions. They should be graduates of an accredited electrical apprenticeship program. The National Electrical Contractors Association (NECA) employ Journeyman who have successfully completed five years in an extensive apprentice training program. On-going job and skill training continues throughout their career.

Strength of workforce

Talk to the contractor about the size of the company's

workforce. If your job is running behind schedule, or going over budget, can the contractor increase or reduce the number of employees on the job in a timely manner?

Safety

The costs to a contractor when there is a serious accident can be tremendous. Fines by OSHA are a small part of the costs. The interruption of production on the job and the outfall of key personnel being tied up to answer legal queries can seriously damage the ability of a contractor.

Safety is no accident. NECA is committed to make electrical contracting a safer place to work.

Drug Free Safety Program

The liability and loss of production that comes with drug and alcohol abuse can easily be avoided by using a contractor that has a drug testing program in effect. With a NECA Contractor, you will be assured of a drug free workforce.

Competence of Management

In today's ever-changing marketplace, there are strategies used by NECA contractors that help you meet opportunities in a highly technical environment.

NECA Contractors are experts at the top of their field, leading the industry in the application of the newest technologies. Visit www.wocneca.org to find a NECA contractor.

Chapel Electric Co., LLC

GE EPISCenter – Dayton, Ohio

Project Manager: Lance Beck

General Foreman: Dave Walters

Construction Type: Industrial

Chapel recently completed work on GE's new Electrical Power Integrated Systems Research and Development Center (EPISCenter) on the University of Dayton campus in Dayton, Ohio. The center has been built on about eight acres on the University of Dayton's campus on River Park Drive near the intersection of Patterson Boulevard and Stewart Street.

This 120,000 square foot facility opened in late 2013 and is a cooperative effort with the University of Dayton Research Institute (UDRI)

to develop and deploy advanced electric power systems for aviation and aerospace applications.

The facility is comprised of a 45,000 square foot office/lobby building that will be used for GE's personnel. This area is served from an 800 amp service that originates from

the lab building. Integrated Power Centers (IPC's) were utilized throughout the office area due to space limitation within the electrical rooms.

The Lab is a 75,000 square foot building housing GE's new R & D center. The electrical room is quite extensive, consisting of a 12470 kV line-up, numerous high voltage switches some of which are designed to feed future equipment, and double ended substations to distribute power. The facility is backed up with a large generator and battery UPS.

The EPISCenter is also the University of Dayton's first Leadership in Energy and Environmental Design-certified (LEED) building. This prestigious certification is partially attributed to an



GE EPISCenter at University of Dayton

extensive lighting control / daylight harvesting system utilized throughout the project. This is contrasted by the fact, that this facility will create / consume more electric power than any lab of its kind in the world — an amazing nine megawatts of power.

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Projects *cont'd.*

Since 1946, Chapel Electric Co., LLC has ventured into a variety of different market sectors to become one of the nation's leading electrical contractors. From state-of-the-art electrical and technology systems for ultra-modern hospital construction, modernization and renovation to 24/7/365 service and preventive maintenance, Chapel has the capabilities, management experience and technicians to complete your project on time and within budget.
www.chapel.com.

ESI Electrical Contractors

Miami Valley Gaming Racino

ESI has just put the finishing touches on the Miami Valley Gaming Racino project. This 200,000 square foot gaming facility and 5/8 mile Harness Race Track is located along Interstate 75 just south of Dayton.

This project had a very aggressive project schedule which was completed in seven months with no recordable incidents. ESI's supervisors and crew did a phenomenal job!



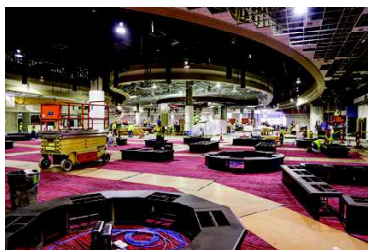
Harness racing at Miami Valley Gaming Racino.

ESI performed all the power, lighting, lighting controls, video systems, network systems, fire alarm system, access control cabling, intrusion detection system cabling, CCTV cabling and simulcast network cabling.

- This project contains over 1,925,000 feet of power cabling and wire, which is equivalent to 364.5 miles of conductors/wire.
- Over 7,450 light fixtures including over 3,135 linear feet



Miami Valley Gaming Racino.



Interior construction at Miami Valley Gaming Racino.

- Installed electric and lighting in the paddock and maintenance buildings.

ESI can now add this Racino to their already diverse resume of gaming experience which includes:

Thistledown Racino, Horseshoe Casino in Cleveland, Ohio and Horseshoe Casino in Cincinnati, Ohio.

ESI Electrical Contractors provides electrical installation for both new commercial and industrial facilities as well as renovations. Their project diversity and range of service includes healthcare, education, process control, power generation and manufacturing, just to name a few. ESI has been serving the Ohio, Kentucky and Indiana areas since 1966.
www.esielectrical.com.

Chapel-Romanoff Technologies LLC, (CRT)

Education Construction

CRT has developed a strong reputation within the K-12 construction and renovation marketplace.

Current new construction school projects include: Princeton High School and Middle School; Taft Elementary (the last of the Cincinnati Public School projects); Northmont High School and Early Learning Center; and Piqua Local School District comprised of two new Elementary schools

(Springcreek and Washington) and a new Grades 4-6 facility.

CRT has expanded their integration service offerings within the school market. Voice/Data cable infrastructure, while always their foundation, expanded to Audio/Video systems including interactive



Computer classroom.

projectors, displays, video distribution, paging and digital signage solutions.

This interactive and integrated, highly technical learning environment supports the technology our children use today and need to master to be productive in the future. This supports local initiatives such as Bring Your Own Device (BYOD), enabling students to utilize technology to communicate, explore and enhance learning initiatives. (BYOD refers to students, faculty, and staff who are bringing their own mobile devices into K-12 and universities; and the need for IT administrators to connect their devices to Wi-Fi, and email while enforcing security protocols). From notebooks in the classrooms to interactive projectors that teachers depend on to deliver the day's lessons, technology has been integrated within the K-12 market.

Expanding towards security offerings including IP camera and video management

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Your comments, suggestions and questions are welcome! Contact the Western Ohio Chapter - NECA.

e-mail: wocneca@choiceonemail.com
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systems, access control and intrusion systems became a necessity as these systems migrated towards a TCP/IP



Bring Your Own Device (BYOD).

foundation. Today's security solutions are nothing more than edge devices on a network.

Owner demand for integrated bid packages and industry expansion of the low voltage contractor's role within construction secures the need for professional, educated and BICSI certified technicians. The education market is only one example.

Chapel-Romanoff Technologies, a system integration contractor based in Dayton Ohio, provides comprehensive communication, electronic safety and security, monitoring systems and consulting technologies; including IT services such as systems design and custom application development. www.crtechcorp.com.

Maxwell Lightning Protection

Hollywood Penn Gaming - Dayton Raceway

Project Manager: Scott Funderburg
Onsite MLP installers: Jason Land & Jim Smith Jr.

Subbed under Electrical Contractor: Chapel Electric Co., LLC
General Contractor: Turner Construction.

Maxwell Lightning Protection Co. is involved in grounding the building steel on the Hollywood Penn Gaming - Dayton Raceway/Racino as well as grounding the lightning protection system. Safety has been their top priority on this project with Turner Construction and Chapel Electric.

The coordination and attention to detail between



Hollywood Penn Gaming Dayton Raceway.

Turner, Chapel, and Maxwell has been nearly perfect. Maxwell Lightning Protection is also installing a certified lightning protection system on



Dayton Raceway under construction.

the roof that will be in compliance with UL96A, NFPA 780, as well as LPI 175 lightning protection standards. The Racino is expected to open in the fall of 2014. *Established in 1963, Maxwell Lightning Protection quickly gained a reputation as "The Expert" lightning protection system installers. They are*

specialists in commercial and residential lightning protection and grounding systems. www.maxwell-lp.com

Wagner Industrial Electric

Abbott Nutrition

For more than 85 years, Abbott Nutrition has been developing and marketing science-based pediatric and adult nutritional products all over the world. They market their products in over 130 countries.

Abbott is globally recognized for their product line which includes Similac, PediaSure, Gain, Ensure and Glucerna. In an effort to produce two of Abbott's fastest growing adult brands, Ensure and Glucerna, Abbott began building a \$270M nutrition manufacturing facility in Tipp City, Ohio in 2012. The 250,000 square foot, state-of-the-art plant specializes in aseptic packaging technology.

Since October of 2012, Wagner Industrial Electric has collaborated with various conveyor and equipment builders to install Abbott's state-of-the-art process filling and packaging equipment. The installation included aseptic filling machines which can produce up to 800 bottles of product per minute, labelers, bundlers, case packers, palletizers, depalletizers, stretch-wrappers, and packaging conveyors.

Chris Craft, Wagner's site supervisor explained that over 3000' of overhead cable tray, along with 6000' of wire basket tray run throughout the fill and packaging area. These trays hold thousands of feet of wire electrically connecting multiple system control panels, to over 200 variable speed drives and motors, along with



Abbott Nutrition in Tipp City.

hundreds of control devices.

Project Manager Mark Blankenship noted that working in a food-grade facility like Abbott is a challenge. After the basic infrastructure was in place all employees had to begin wearing cleanroom garments (protective clothing such as hoods, face masks, gloves, boots and overalls) to maintain an environment with a low level of pollutants.

Wagner's team of IBEW trained electricians has been integral to the safe, cost effective, timely installation of this facility. Wagner-Industrial is currently working on Phase II of the project.

Wagner Industrial Electric (WIE) specializes in industrial electrical construction and maintenance services. Their ability to manage large and complex projects sets WIE apart in the construction industry. WIE provides electrical design and construction services in a safe, reliable and efficient manner. www.wagner-ind.com.

Outstanding Performance Awards

In appreciation of Chapel Electric's efforts on the GE EPISCenter project, both Lance Beck and Dave Walter were honored at the 11th annual Team Building Night on January 23, 2014 @ Sinclair Community College, co-hosted by the Dayton Builder's Exchange and the Subcontractor's Association of Western Ohio.

Lance Beck with Chapel Electric received the Electrical Project Manager of the Year Award

Lance demonstrated the composure, skill, dedication and professionalism necessary to manage a project of this size, complexity and scope, which in itself exemplifies the very essence of the Electrical Project Management award. Lance and his on-site team faced a very demanding completion schedule and met every milestone schedule all the way through owner occupancy.

The completion schedule would have been tight for a normal project of this size, but was further compounded by the inherent power and control requirements and by the fact that most of the long lead time items such as substations and generators were not delivered until the last 3 months of the project.

Dave Walters with Chapel Electric received the Electrical Foreman of the Year Award

Dave was responsible for all on site coordination, scheduling/phasing and safety for the entire electrical installation. He worked closely with the overall project team and electrical installation field team to ensure an installation of the highest quality. Dave's experience on large complex projects requiring attention to detail and maintaining demanding schedules with large manpower requirements is unmatched in the region and he proved it once again at the GE EPISCenter project.

Adam Maxwell and Lee Maxwell with Maxwell Lightning Protection win Harvest Award

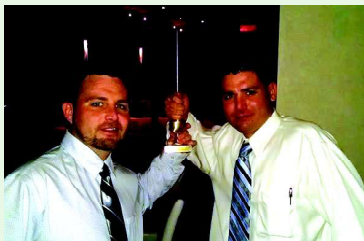
Members of the lightning protection industry gathered the final week of February in Singer Island, Florida for the annual joint conference of the Lightning Protection Institute and the United Lightning Protection Association. A highlight of the conference each year is the competition to win the coveted Harvest, Promethean and Promotional Awards. The 2014 competition was particularly challenging, with more than 29 entries. Adam and Lee Maxwell were presented with the 2014 Harvest Award for their presentation of two safety products that are convenient, safe, and are very useful for anyone in the lightning protection industry. Adam and Lee Maxwell are now two time Harvest award recipients. Congratulations!



Lance Beck



Dave Walters



Adam and Lee Maxwell

Mark Cohea with Chapel-Romanoff Technologies (CRT)

Mark Cohea has been in the AV/Communication Industry for over 15 years, providing a wide-range of technology solutions for customers in Southwestern Ohio. Systems include Pro Audio, Audio Visual, VoIP Telephony, Commercial/Emergency Paging, Streaming Video, Access Control, IP CCTV, Security, Network Electronics Infrastructure, WLAN Infrastructure and many more. Certifications include: Extron Certified AV Associate, Valcom – Distributed Amplified and VoIP Technology, ElectroVoice System Design and Product Application, Mitel/InterTel Digital and VoIP Training, and Crestron Digital Media Designer. He has been a Certified Technology Specialist (CTS) for three years, and has just recently earned CTS-D certification.



Mark Cohea

Chad Prewitt with ESI Electrical Contractors

As a Project Foreman for ESI Electrical contractors, Chad is responsible for overseeing the construction phase of projects. He has held positions at many levels in the electrical construction industry. Chad began in the field as an electrician and elevated to a Foreman over his seventeen-year career. He has held his current position for over six years and oversees and coordinates the installation phases of projects. Chad's attention to detail and many years of industry experience ensures a project is done right the first time through planning and coordination. He attends all progress meetings, reviews schedules and tracks material shipments.

Recent projects he has managed include Miami Valley Hospital Comprehensive Cancer Center, Dural Drive Project at WPAFB, and replacement of the Fire Suppression System Hanger 206 project at WPAFB. Chad is a true asset to ESI.



Chad Prewitt

The Western Ohio Chapter - National Electrical Contractors Association Directory:

NECA Members

Aztec Electric, Inc.
Chapel Electric Company
Chapel-Romanoff Technologies
ESI Electrical Contractors
High Voltage Maintenance
Kastle Electric Company
Kastle Technologies
Maxwell Lightning Protection
Mutual Electric Company
RMF Nooter
Sidney Electric Company
Studebaker Electric
Wagner Industrial Electric
York Electric, Inc.

Associate Contractors

Automated Controls
Capital Electric
Cougar Electric, Inc.
DeBra-Kuempel, Inc.
DEC, LLC
Glenwood Electric
Justice Electric
Lake Erie Electric
Mid City Electric
Power Services
Spurling Electric Co., Inc.
Triad Electrical
Wave Electrical Services
Wilson Sign Company

To contact a NECA Contractor visit www.wocneca.org.

