All buildings require an electrical and voice/data infrastructure. From the installation of lighting to the more complicated structured cabling systems, electrical construction is critical to our daily lives. The most qualified electrical contractors in the Dayton area are members of the Western Ohio Chapter, National Electrical Contractors Association (NECA). The quality of their work is unsurpassed because their employees are the best trained, drug free, work force in the country. These outstanding workers are members of the International Brotherhood of Electrical Workers (IBEW) Local 82.

This issue of Connections is dedicated to showcasing the projects and people that are essential to keeping us up-and-running.

**NeCA Awards of Excellence**

Individual Performance Awards

We all know that a company is only as successful as its people. Congratulations to the following wiremen for their outstanding performance in their field.

**Jeff Carr**

General Foreman
Chapel Electric

**Bill Root**

Project General Foreman
ESI Electrical Contractors

**Kevin Wieneke**

Project Foreman
Chapel Romanoff Technologies (CRT)

Jeff Carr has been working in the electrical industry for 27 years, with 23 years at Chapel Electric. He completed the NIATC Electrical Apprentice and training in Dayton and has taken several ongoing education courses including 30-hour OSHA Training, Fire Alarm systems and Project Management. Jeff’s recent project experience includes: Greene Town Center, WPAFB cable replacement, Air Force Museum Hanger 3, VA Medical Center, and the Schuster Performing Arts Center theatrical lighting.

**CRT Technologies**

**www.crtechcorp.com**

**Project: The Greene Wide Area Network**

Chapel Romanoff Technologies provides a complete line of systems integration including design, install and service of voice/data, audio and video systems, security, life safety, and monitoring systems. CRT’s clients include leading corporations and institutions in technology-dependent markets, including defense, financial services, data management centers, biotech/healthcare, and institutional industries.

The Greene Wide Area Network was awarded to CRT on June 1st with completion scheduled for July 30th. The project provides a fiber-optic backbone for data communication between key facilities located throughout the Greene retail campus. The common network infrastructure provides a communication medium for Steiner and Associates tenants across campus for site amenities such as Internet access, CCTV, security, life safety and building management network communication.

The project includes the installation of: backbone fiber-optic cable between buildings, network electronics, equipment cabinets, UPS systems and advanced fiber-optic splicing.

Completion within schedule was essential to obtain occupancy permits. CRT Project Lead Kevin Wieneke, Project Foreman Addam Wood and many other key installers worked to ensure timelines were not only met, but also exceeded.

CRT provided a functional network to Messer two weeks earlier than anticipated.

**Kastle Technologies**

**www.kastle-group.com**

**Project: Duke Energy Center Cincinnati, Ohio**

Kastle Technologies, a division of The Kastle Group, markets, designs, installs, certifies, and maintains high speed structured cabling systems for voice, data and video networks. Kastle Technologies, headquartered in Greater Cincinnati (Union Center) with a branch office in Dayton Ohio is an industry leader in the installation of large and complex copper/fiber distribution systems and data center projects. They recently completed a high-speed voice/data/video distribution system for the newly renovated WPAFB cable replacement, Air Force Museum Hanger 3, VA Medical Center, and the Schuster Performing Arts Center theatrical lighting.

**Voice/Data**

**The Greene**

Duke Energy Center

(Cont’d. page 2)
Cincinnati Convention Center (Duke Energy Center).

The Duke Energy Center completed a $135 million dollar expansion, renovation and reconfiguration. The project began in April of 2004 and officially opened to the public on June 22, 2006. The Center has more than 750,000 gross sq. ft. with nearly 200,000 sq. ft. of contiguous exhibition space. The renovation includes all administration support offices as well as a complete and total upgrade of the voice/data/video distribution system. To give you an idea of the scope of the project: the voice/data/video distribution system has over 750,000 feet (142 miles) of CAT 6 data cable; 300,000 feet (56.8 miles) of multi-mode and single-mode fiber optic cable; 65,000 feet (12.3 miles) of CAT 5e 25 pair copper feeder cable and 226,000 feet (42.8 miles) of coaxial cable.

The project faced many challenges:

• There were multiple renovation phases (10) over a two-year period.
• Material storage and staging was extremely difficult with no on-site space available.
• The Convention Center was still in business, with shows and exhibitions. A visit by the Vice President of the United States posed some scheduling difficulties.
• Working from a catwalk sixty feet above the Exhibition Floor, was difficult due to lighting.

limited space and height from the floors.

“...The Convention Center was a high profile installation, similar to our installation of the Great American Ballpark,” says Lyman Smith, Vice President General Manager of Kastle Technologies. “It was in the public eye, high security, depended on taxpayer money, and was very important economically to Hamilton County and the City of Cincinnati. The end user and Hunt Construction (GC) are extremely happy with the quality of the installation and its performance. A special thanks to Project Manager Pete Schuster and On-Site Superintendent Lee Vogelgesang for all their hard work.”

Education

Wagner Smith Electrical Contractors
www.wagnersmith.com
Project: University of Dayton RecPlex

Wagner Smith traces its history back to 1917. Services include: high-voltage and low-voltage power distribution and testing; energy management; emergency power services; fire alarm and security systems; control and instrumentation; and fiber optic installations for voice, data and video. Wagner Smith’s scope of work includes all markets with nationwide projects.

The University of Dayton Fitness and Recreation Complex (RecPlex) opened in January, 2006. The $25 million complex is state-of-the-art and one of few such fitness centers in the country. It houses a main gym with four basketball courts, the MAC gym with two courts and a synthetic surface, three racquetball courts, a 30-foot climbing wall, a juice bar, locker rooms, and an Olympic-sized swimming pool in the Aquatic Center. The second floor has a Fitness Center with 60 pieces of various cardio equipment, a free weight area and a Wellness Assessment Office where personal training and massage therapy are offered. In addition, there is a 1/8-mile indoor track with a rubberized surface along the mezzanine.

As the prime Electrical Contractor for the entire complex, Wagner Smith was responsible for installation of all lighting, power, telecommunications, the fire alarm system and emergency backup power. According to Project Manager John O’Meara, “This was an exciting project to work on simply because it is such a unique facility. A special thanks to General Foreman Rick Brunner for all his efforts.”

Healthcare

ESI Electrical Contractors
www.esielectrical.com
Project: Miami Valley Hospital Shaw ETC
Emergency Lock Down, Design/Build

ESI provides design/build services for their customers, offering complete electrical design. ESI can take a project with conceptual designs, finalize the design and provide an engineer’s stamp for the project. Other services include installation, wiring and terminations for control systems (HVAC); voice/data/video/fiber optic cabling and terminations; and expert service and repair with 24/7 availability.

Miami Valley Hospital’s Shaw Emergency and Trauma Center is touted as one of the region’s most modern emergency care facilities.

New security protocols were put into place over the summer at Miami Valley Hospital combining bullet-proof glass and hurricane doors to ensure patient security. MVH also wanted to be able to secure the entire ER, allow for personnel to respond to the emergency, and still allow egress to bystanders in case the emergency spreads, all from one dispatch location. ESI Electrical installed cameras, card readers, motion sensors, and magnetic hardware to devise a system that was installed throughout the ER that will lock down all doors and still comply with fire regulations for egress. The system also allows for individual doors to be unlocked to allow MVH personnel to respond to the emergency.

“The system has worked great from the beginning, ”
Awards (cont’d.)

says Miami Valley Hospitals’ Craig Anderson. “We believe this is the only system in the state set up like this.” Other hospitals in the area are looking at this system to see if it is something that would benefit their facilities.

Aztec Electric
www.aztecelectricinc.com
Project: Dayton VA Medical Center

Aztec Electric’s services include power wiring, high voltage, lighting, grounding, motor controls, fire alarm, security, telephone/data, fiber optics and emergency generators. Aztec is a certified Minority Business Enterprise.

The Dayton VA is the third oldest VA Medical Center in the country, having accepted its first patient in 1867. The Dayton VA provides a wide range of inpatient and outpatient services, including medicine, surgery, neurology, physical medicine, rehabilitation and mental health. They have recently been upgrading the facility.

Aztec installed a new nurse call system in the 650-bed hospital, while keeping the existing critical system operation. They also installed 75 wireless access point “hot spots” for nurses and doctors, which allows them to download patient information more efficiently. “The biggest challenge working in a hospital environment, is keeping all systems up and running while performing upgrades,” says Project Supervisor Frank Roddy.

Commercial

Kastle Electric
www.kastle-group.com
Project: GE Consumer Finance

The Dayton based Kastle Group includes Kastle Electric Company, a commercial electrical contractor; Kastle Plus, a commercial electrical service provider; and Kastle Technologies. The commercial electrical division of the Kastle Group has provided quality electrical installation to large commercial end users in Dayton, Ohio since 1925. Their capabilities range from installation of complete industrial power and control systems to providing power for sophisticated computer and data processing systems. Kastle is experienced in new construction, repairs, maintenance and preventive maintenance.

GE Consumer Finance is a state-of-the-art regional call center that is being expanded to meet increased consumer financing needs. The building is located in the Kettering Business Park. “The biggest challenge of this project,” says President Greg Brush, “is the accelerated schedule to meet customer requirements.” Kastle installed emergency and UPS power requirements for increased reliability and 24/7 operations. In addition, they installed a DDC energy management system for lighting and HVAC requirements; state-of-the-art fire alarm and security systems; and audio-visual systems for training and technology requirements.

Kastle Technologies also worked on this project, extending the existing redundant fiber optic backbone to support the expansion. They also installed a “Systemax” structured cabling system to support voice and data requirements for the new workstations.

Chapel Electric Company
www.chapel.com
Project: The Greene

Since 1956, Chapel Electric has grown to become one of the nation’s leading electrical contractors. Their success can be attributed to their focus on quality and extraordinary performance every day. Chapel provides all industrial/commercial electrical needs, including service and predictive and preventive maintenance.

This Greene Site Amenities project was awarded to Chapel Electric on May 9, 2006; with a scheduled completion date of August 24, 2006. The scope of this project primarily revolves around the installation of 265 pole bases and the associated, customer furnished decorative light poles / fixtures. Other major project activities include the installation of 253 tree receptacles, 262 parking meters, the rough-in for the Central Fountain, the Muzak system, along with numerous security cameras and “call for assistance” stations.

With a total project value of $2 million and a 15-week duration coupled with the uncertain weather conditions, restricted site access and a constantly changing project scope, this fast track project was surrounded by challenges. “In the field, General Foreman Jeff Carr and Steve Beck did an exceptional job of planning and organizing the project to keep it moving along under adverse conditions,” says Project Manager Bob Shaffer.

Pre-fab played a key role in the project’s success. Chapel prefabricated parking meter poles, light pole base grounding and the tree receptacles and set up an on-site fab shop in the lower level of the South Parking Garage to assemble the light poles and fixtures.


In addition to the Site Amenities package, Chapel Electric completed the following projects: Buildings F, G & H, the West & South Parking Garages, several retail establishments and the Enerswise (project wide) utility metering project, all managed by Bob Galpin and directed in the field by Jeff Carr.

The Greene is Dayton’s first open-air, mixed-use town center. It’s being developed by Steiner + Associates, with Messer Construction acting as Construction Managers. Upon completion The Greene will offer 800,000 square feet of retail, restaurant and office space along with 136 residential units.

(Cont’d. page 4)
Individual Performance Awards (Jeff Carr cont’d.)

“Working on The Greene is a unique experience,” says Jeff. “We received over 50 bulletins that created additional work, with no additional time. So we staffed up to over 45 electricians to handle all the projects. There were over 2000 workers at the site creating first-rate quality work. It was impressive to see it all come together in such a short time frame.”

According to Vice President of Contract Operations Bob Shaffer, “Jeff is an excellent Project Superintendent, experienced in all facets of electrical construction. He has total project responsibility for the labor, safety, equipment, tools and the proper installation methods of all materials and systems. In addition, he maintains responsibility for all on-site coordination, scheduling, phasing and quality control. He is a true asset to our company.”

Jeff will be celebrating his 25th wedding anniversary next year and has two sons attending the University of Cincinnati.

Bill Root
Project General Foreman
ESI Electrical Contractors

Bill Root is a graduate of the five-year NJATC Apprenticeship program and an IBEW Local 82 member since 1997. Bill is currently the project General Foreman at the Montgomery County Juvenile Justice Center located at 385 West Second Street. His management skills have been a driving force in the success of this two and a half year long project. The Juvenile Justice Center started at the end of 2004 and is scheduled for completion in July of 2007.

Bill leads a crew of nearly 30 electricians with the help of two other project Foremen, Ralph McCoy and Dave Shoup. In his daily activities Bill coordinates with other construction trades (mechanical, plumbing, masonry, carpentry, etc.) as well as the security systems, fire alarm, and phone data subcontractors in order to assure a well-coordinated and timely installation.

Managing a project of this size and complexity is a difficult task, requiring well-balanced consideration for safety, productivity, tool and material logistics, and document control. Bill’s knowledge, skill, and attitude have led him to success in leadership and will serve him well in the future.

Kevin Wiencke
Project Foreman
Chapel Romanoff Technologies (CRT)

Kevin began his career as a teledata specialist in Florida. He worked for a cable company for a while, and then moved into installation of structured cabling. Kevin returned to the Dayton area in 1999 and joined CRT (Chapel Romanoff Technologies) in 2004. He performs all types of installations: structured cabling, data and voice communications and electronic access control and security systems. Currently, he is the Foreman on a job at WPAFB, pulling 1200 pair phone cable through manholes as part of an expansion and upgrade. “Kevin attacks every project with a “can do” attitude,” says V.P. of Operations Dennis Severance. “He will do whatever it takes to get the job completed on time.” Kevin is married with a two-year old son.

Awards (cont’d.)

Maxwell Lightning Protection
www.maxwell-lp.com
Project: C-5 Hangars, WPAFB

Established in 1963, Maxwell Lightning Protection is one of the largest and most reputable companies nationwide in the lightning protection industry. In addition to lightning protection, they are specialists in cathodic protection, both sacrificial and impressed current, and sophisticated high explosive area grounding systems. Maxwell’s services include estimating, design and engineering.

Maxwell is installing static grounding systems and lightning protection to all the C-5 Hangars at WPAFB including the Multi-Purpose Hangar, the Maintenance Hangar, and the Squad Ops Hangar. A lightning protection system does not prevent lightning from striking; it provides a means for controlling it and preventing damage by providing a low resistance path for the discharge of lightning energy. Grounding consists of a system of loops and rods surrounding a facility to help protect equipment inside of a building.

A very real issue for contractors, and especially Maxwell, is the price of copper, which has recently tripled. “When materials escalate in price during a project,” says President Wayne Maxwell, “your only recourse is to make sure you have the very best people working on the project. Project Foreman Scott Funderburg and Supervisor Delbert Corn have produced outstanding results due to their expertise and the training of quality workers.”

The Western Ohio Chapter - National Electrical Contractors Association Directory:

NECA Members

Aztec Electric, Inc.
Chapel Electric Company
Chapel-Romanoff Technologies
Complete Electrical Service
D.R. Electric, Inc.
ESI Electrical Contractors
Freedom Electrical Contractors
High Voltage Maintenance
Kastle Electric Company
Kastle Technologies
Lake Erie Electric, Inc.
Maxwell Lightning Protection
Mutual Electric Company
Reliable Electrical Mechanical
Studebaker Electric
Wagner Smith Company
York Electric, Inc.

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