

## And the winners are...

### NECA Awards of Excellence

Every building requires an electrical and telecommunications infrastructure. From the installation of lighting to the more complicated system control configurations and data wiring, electrical construction is critical to our day-to-day existence. 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. All wiremen complete a 5-year apprenticeship program and continually update their skills through ongoing education. These outstanding workers are members of the International Brotherhood of Electrical Workers (IBEW) Local 82.

We have all seen how vital electricity and communications are from the recent aftermath of hurricanes Katrina and Rita. This issue of *Connections* is dedicated to showcasing the projects and people that are pivotal in keeping us up-and-running.

#### Education

**Kastle Electric**  
[www.kastle-group.com](http://www.kastle-group.com)  
*Project: Reynolds & Reynolds University and Office; addition to the Miami Valley Research Park facility*



*Kastle Electric - Reynolds & Reynolds University*

The Dayton based Kastle Group includes Kastle Electric Company, a commercial Electric Contractor; Kastle Plus, a commercial Electrical Service provider and Kastle Technologies, providing installation of structured cabling systems. Kastle Electric has provided quality electrical installation to large commercial end users in Dayton since 1925. Their capabilities range from the 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. Their continuing education programs for both field and home office personnel keep Kastle at the forefront of

technological advances.

The Reynolds & Reynolds University is a state-of-the art national training center. The project includes

the installation of a high-end programmable dimming system and audio-visual package; Green Building energy management systems and controls; central plant tie in; substantial night site lighting; and a raised floor system for maximum flexibility.

#### Government

**Chapel Electric**  
[www.chapel.com](http://www.chapel.com)  
*Project: US Air Force Museum Hangar III Addition*

Since 1946, Chapel Electrical has grown to become one of the nation's leading electrical contractors. Their success can be attributed to their focus on

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*The new Cold War Gallery at the Air Force Museum is housed in Hangar III, a Chapel Electric project.*

### Individual Performance Awards

It goes without saying that a company is only as successful as its people. Congratulations to the following wiremen for their outstanding performance in the field.

- Alex Pfeil**  
*Technician/B – Project Lead Chapel-Romanoff Technologies (CRT)*
- Bill Melke**  
*Foreman at Parchment Paper ESI Electrical Contractors*
- Dave Walters**  
*Project General Foreman Chapel Electric*
- Brent Elhers**  
*Lightning Technician, Field Foreman Maxwell Lightning Protection*
- Darrell Rob Brown**  
*Wagner Smith Electrical Contractors Top Apprentice, 2005*

**Alex Pfeil**  
*Technician/B – Project Lead Chapel-Romanoff Technologies (CRT)*

The Alter Graduate Education Facility project at WPAFB required a level of planning, coordination and effort well beyond standard projects. With a high level of



*Alex Pfeil*

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## Awards *cont'd*

quality and extraordinary performance everyday. Chapel provides electrical, service, predictive and preventive maintenance and the latest voice/data/video technology.

Hangar III, the Eugene W. Kettering Building, houses the Cold War Gallery. The gallery explores the Air Force's vital role in defeating Soviet communism and in waging the war on terrorism. Prominent aircraft include the imposing B-36J bomber and the F-117 stealth fighter. The Air Force Museum project drew nationwide attention. The size alone is impressive, not to mention the state-of-the-art theatrical lighting method used to light the large area, Vesda fire alarm protection and cameras/door monitoring for security. The museum project encompasses over 250,000 square feet of floor space with a ceiling height of 85 feet in the center of the hangar.

### Lake Erie Electric, Inc. [www.leeinc.com](http://www.leeinc.com)

#### *Project: City of Dayton – Water Treatment and Distribution*

Lake Erie Electrical, founded in 1952, has emerged as a significant contributor in the electrical construction industry and has earned the reputation as a company that completes projects on schedule and within budget. Lake Erie provides electrical construction services that

enhance new construction, production changeovers and technological upgrading. From design through installation, each project clearly demonstrates their expertise, dedication, experience and effective communications network.

Lake Erie's project with the City of Dayton Water Treatment and Distribution facility consisted of Medium Voltage Testing and Maintenance and was completed on time and under budget. During the execution



*Oil pressure system, Area B, WPAFB. Rebuild by ESI.*

of the project, possible equipment failures were diagnosed and preventative measures were taken which saved the City of Dayton Water Department a substantial amount of money by allowing remediation during a planned outage.

### *Rebuild*

### ESI Electrical Contractors [www.esielectrical.com](http://www.esielectrical.com)

#### *Project: Design/Rebuild High Voltage Oil Pressure System at WPAFB*

ESI provides design/build services for their customers offering the complete electrical design. ESI can take a project with conceptual designs, finalize the design and provide an engineer's stamp for a complete 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.

This project consisted of the Design & Rebuild of the Insulating Oil Pressure System for the 69,000-volt feeder serving Area B. The project was competed with no outage or downtime, while the circuit remained in continual use. The original system was built around 1950 and all motors,

controls, instrumentation and devices were redesigned and replaced to current standards using in-house engineering. Oil pressure was maintained on the ¼ mile long, 3 circuit conductors,

each in its own containment vessel. Project was 100% complete in five days!

### *Voice / Data*

### CRT Technologies [www.crtechcorp.com](http://www.crtechcorp.com)

#### *Project: Alter Graduate Education Facility at Wright Patterson Air Force Base (WPAFB)*

Chapel-Romanoff Technologies provides clients access to comprehensive communication, electronic safety and security, monitoring systems, and consulting technologies; including IT services such as systems design and custom application development. CRT 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 mission of the Air Force Institute of Technology (AFIT) Graduate School of Engineering and Management is to produce graduates and engage in research activities that enable the Air Force to maintain its scientific and technological dominance. The school's mission reflects its focus on preparing students with the skills required to maintain the world's best Air Force, with the recognition of research as a critical element in quality graduate education.

CRT is responsible for installing the state-of-the-art communications infrastructure for the Alter Graduate Education facility at AFIT. The project included installation and expansion of communication closets with extensive fiber-optic, video and copper backbone cables. This implementation included over 3000 data cables, 1000 voice cables and 450 locations of fiber to the desk. A Sensitive Compartment Information Facility (SCIF) to support secure communication capability is also designed within the facility.

Research is critical to develop new technologies for our Air Force. The state-of-the-art communications installation provided by CRT will assist these students in reaching their goals.

## CONNECTIONS

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

e-mail: [wocneca@choiceonemail.com](mailto:wocneca@choiceonemail.com)  
website: [www.wocneca.org](http://www.wocneca.org)  
phone: 937-299-0384  
fax: 937-299-7322



(Voice / Data cont'd.)

**Kastle Technologies**  
[www.kastle-group.com](http://www.kastle-group.com)  
**Project: Reynolds & Reynolds Logistics Center**

Kastle Technologies, a division of the The Kastle Group, markets, designs, installs, certifies and maintains high-speed Structured Cabling systems for Voice, Data and Video networks. The Reynolds & Reynolds Logistics Center is the corporation's centralized warehouse and repair center for all clients worldwide. Located at the Dayton Airport, the Logistics Center will ship a replacement directly to the client and receive the damaged item for repair at the Center's Labs. Typical items repaired at the center include printers, circuit boards and terminal equipment.

The distribution system installed by Kastle Technologies has over 1,500 CAT 6 Data drops to support the voice and data needs of the Center. The Belden/Panduit System is certified to transmit data at a billion bits per second (Gigabit). The minimum life of the system is 25 years. According to Lyman Smith, Vice President General Manager of Kastle Technologies, "The system installed will insure the Logistics Center can provide support and services at the highest level to their clients."

**Specialty Contracting**

**Maxwell Lightning Protection**  
[www.maxwell-lp.com](http://www.maxwell-lp.com)  
**Project: Air Traffic Control Tower, Indianapolis, IN**

One of the largest and most reputable companies nationwide in the lightning protection industry is Maxwell Lightning Protection Company, located in Dayton. They

recently completed installation of all interior and exterior grounding and lightning protection on a new air traffic control tower in Indianapolis, IN. The new tower is on the existing airport grounds, and had to be built prior to construction of the new airport.

"Lightning protection is very dangerous work," says Area Supervisor Tim Spreng.



*Maxwell Lightning - Air Traffic Control Tower, Indianapolis.*

"This particular tower is 370 feet tall. We use equipment called spiders that are attached to the top of the tower, that pulls the worker up on the side so lightning cable can be attached to the tower. You definitely cannot be afraid of heights to do this kind of work!"

**Commercial**

**Wagner Smith Company**  
[www.wagnersmith.com](http://www.wagnersmith.com)  
**Project: DHL, Wilmington, OH**

Wagner Smith traces its history back to 1917. Comprised of two companies, Wagner Smith Electrical Contractors with two divisions, Industrial Electrical and Outside Electrical; and Wagner Smith Equipment Company, specializing in

powerline construction and telecommunication equipment.

The Industrial Electrical Division 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. The Outside Electrical Division specializes in the construction and maintenance of traffic signals, street lighting, and other traffic management devices.

DHL, the world's leading global express delivery and logistics company, is building a new landing system at its hub airport facility in Wilmington, OH. The new Category III Instrument Landing System (ILS) gives certified aircraft the ability to land in conditions of reduced visibility, improving on-time reliability, safety, and the timeliness of air shipments.

The installation of apron lighting and taxiway lighting fell to Wagner Smith Electrical Contractors. This was a large, fast track job worth \$2 million. The new 100-foot tower will provide lighting to the 24-hour DHL operation. Over 600 planes are loaded and unloaded every night. The job was completed on schedule and within budget.

**Aztec Electric**  
[www.aztecelectricinc.com](http://www.aztecelectricinc.com)  
**Project: IAMS (Procter & Gamble), Lewisburg, OH**

Aztec Electric 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.

IAMS, famous for their

innovative pet food products, recently built a new state-of-the-art Research Center and two kennels in Lewisburg, OH. As the electrical contractor on the project, Aztec Electric began by installing temporary electric, which is necessary to begin installation of power distribution and other systems. Aztec was responsible for the implementation of the security system, temperature controls, fire alarms, lighting and power. They also installed a back-up generator in case of an emergency. Aztec Electric was recently awarded Phase 2 for two additional dog kennels and one cat kennel. The kennel areas are quite sophisticated, complete with stereo systems, climate control and heated floors. It really is a dog's life!

**Industrial**

**ESI Electrical Contractors**  
[www.esielectrical.com](http://www.esielectrical.com)  
**Project: GM Moraine Truck & Bus Plant - Conveyor Rework**

This project involved the complete rework/addition of seven production line conveyors to allow for the future introduction of a new body style at the Moraine Facility. The work was completed over a two-week shutdown period, with 55 men working two shifts around the clock, to make all necessary changes.

The project was completed on time and on budget, with production of vehicles recommencing as scheduled. The project was a success due to the organizational skills of employees on site, at the warehouse and in the office. And by the working knowledge of conveyors provided by ESI's on site supervision.

**Performance** *cont'd*

operational risk and potential for excessive over run, Alex ensured success with detailed planning, excellent time management and positive leadership skills.

The use of CRT's pre-fabrication department to assemble, label and configure all of the termination equipment required for the project was a direct result of Alex's foresight and planning efforts. Mr. Pfeil demonstrated professionalism and dedication towards the project's success that CRT is proud to represent.

Alex ensured timelines were maintained and/or exceeded throughout the entire project while maintaining an implementation quality level beyond customer expectations. This performance has developed a long-term client from a contract opportunity.

**Darrell Rob Brown**  
*Wagner Smith Electrical Contractors*



Top Apprentice 2005  
Darrell was the top electrical apprentice in 2005. The apprenticeship program requires 5 years of on-the-job training, plus one night a week of school.

*From left: Grady Mullins, IBEW Organizer and Bill Newlin, JATC Training Director, award Rob Brown his Journeyman statue.*



*Bill Melke*

**Bill Melke**  
*Foreman at Parchment Paper  
ESI Electrical Contractors*

Bill contributes countless hours, free of charge, to Rebuilding Dayton together, aiding individuals, often handicapped, in need of electrical repairs and maintenance to their homes or dwellings. Often these items make their homes more "user friendly". Materials are donated by local NECA contractors.

As a member of the Alter High School alumni Association, Bill donates time and services to the school and its fund raising functions. A dedicated employee, Bill maintains a regimen of self education to keep abreast of current technology in the industry.



*Dave Walters*

**Dave Walters**  
*Project General Foreman  
Chapel Electric*

Dave Walters completed the five years in the IBEW Local 82 Joint Apprenticeship Training Program and has been a Journeyman Wireman for 28 years. Dave's work ethic and capability to coordinate with all the other

trades, to ensure a job is done right the first time, is by far rated at the top of his class. Dave is quality conscientious at all times and truly believes he must deliver the best possible job to the customer.



*Brent Elhers*

**Brent Elhers**  
*Lightning Technician, Field Foreman  
Maxwell Lightning Protection*

Lightning protection is a very specialized industry requiring trained technicians. Field personnel undergo an in-house three-year apprenticeship program, overseen by

Maxwell Supervisor Delbert Corn and patterned in part after the IBEW Local 82 program. Mr. Elhers, a Field Foreman with Maxwell for eleven years is a hard worker that goes the extra distance to ensure that projects are completed on time and meet all code requirements. He is a proud, caring worker and a true team player. Brent's expertise makes him an invaluable asset to every project undertaken by Maxwell.

***Congratulations to those contractors  
and individuals achieving exceptional  
performance awards for 2005!***



**The Western Ohio Chapter -  
National Electrical Contractors Association Directory:**

**NECA Members**

**Division Dayton**

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

**Contributing Contractors**

**Division Dayton**

- Automated Controls
- Integrated Control Solutions
- Justice Electric
- Luehrs Electric, Inc.
- M.B.A. Electric, Inc.
- Nitro Electric Co.
- North Hills Electric & Eqmmt.
- Power Services
- Precision Electrical Contrs.
- Productive Electric, Inc.
- Q.O.B. Electric, Inc.
- Spurling Electric Co., Inc.
- The W.G. Fairfield Co.
- Triad Electrical
- Union Lightning Protection
- Wilson Sign Company

**Western Ohio Chapter - NECA**  
**2210 Arbor Boulevard**  
**Dayton, OH 45439**