



# CONNECTIONS

Western Ohio Chapter • National Electrical Contractors Association



Published for members of NECA, Western Ohio Chapter • IBEW Local 82 • Miami Valley Business Community

July, 2011

## Cookout for Boy Scouts at RiverScape

The Miami Valley Council, Boy Scouts of America recently held the 12<sup>th</sup> annual Cookout for Scouting at RiverScape on Friday, June 10<sup>th</sup> in downtown Dayton. Boy Scouts from around the Miami Valley served up lunch to hundreds of downtown workers.

Along with lunch, the Miami Valley Council showed off the great things that Scouts are doing throughout the year to develop strong leadership skills and values.

The event benefits the Campership Fund of the Miami Valley Council which allows Boy Scouts to attend camp this summer, regardless of their ability to pay. The Cookout this

year proved to be yet another successful fundraiser and the Council will be able to send an



*Dayton Mayor Gary Leitzell lends his support to the Boy Scout Cookout.*

additional 220 boys to camp. The goal of these camps is to "instill values in young people to prepare them to make ethical choices over their lifetime and achieve their full potential."

The primary sponsor for the cookout is the Labor Management Cooperation Committee (LMCC) of the Western Ohio Chapter of the National Electrical Contractors

Association (NECA) and the International Brotherhood of Electrical Workers (IBEW) Local 82. Both NECA contractors and members of IBEW Local 82 work together as a team to increase market share, oversee continuing education for Journeymen and support community projects.

A special thanks to Orbit Outdoor Network HD, LLC who

contributed a free week of advertising on their new digital billboard on I-75; and to Clear Channel for promoting the event on the air. As always, the event could not



*The Scouts construct a Monkey Bridge at the Cookout.*

to all who pitched in to make this a great event!

## Counselors Breakfast / Expo

High school graduates are in a particularly difficult situation in today's economy. Perhaps they have seen their older brother or sister graduate from college and search for hard-to-find employment. An often overlooked choice for continuing education is apprenticeship training in the building trades.

Apprenticeship programs consist of a combination of on-the-job training (earning while you

learn) and classroom instruction.

Every year, the Miami Valley Building Trades Apprenticeship Group hosts a breakfast for area high-school counselors to showcase their programs. This year's event took place in April. Several of the trades had exhibitor tables set up and shared information about their particular program with the attendees. In addition, tours were given of Local 24's Sheet Metal Apprenticeship and the International Brotherhood of Electrical

Workers Local 82 training facilities, both housed at 6550 Poe Ave. in Dayton.

There were several speakers at the breakfast



*Steve Lipster, Ohio State Apprenticeship Council Chairman.*

including Steve Lipster, Ohio State Apprenticeship Council Chair and Training Director of the Electrical Trades Center in Columbus. He noted that historically, most of the trades... from candle making to printing to blacksmithing were all learned through on-the-job training. Apprentice programs in the U.S. were largely unregulated until 1937 when Congress passed the National Apprenticeship Act, also known as "the Fitzgerald Act." The Act established a national advisory committee whose task was to research and draft

*Cont'd pg.2*

## **Breakfast cont'd**

regulations to establish minimum standards for apprenticeship programs. The Act was later amended to permit the United States Department of Labor to issue regulations protecting the health, safety and general welfare of

apprentices, and to encourage the use of contracts in the hiring and employment of them.

Fifty years ago there were 1,150 sponsored apprenticeship programs with 19,000 apprentices. Today there are 965 sponsors, with 20,000 apprentices, with 75% in the construction trades. When it comes to the building trades,

the best avenue for learning is an apprenticeship.

Presenter Buck Ross, President of Chapel Electric, indicated that about 50% of the building trade contractors



*Patricia Pietrarroia, Program Coordinator for Cuyahoga Community College.*

came up through the ranks. And in today's world, many Journeymen continue their education to become estimators and managers. "The changing technology and strategies, like the prefab construction at the Miami Valley Hospital addition and renewable energy installations, require that our workers

receive ongoing education," says Buck.

Roofters JATC instructor Justin Hayes spoke about his experience as an apprentice. Justin graduated from both the apprenticeship program and Wright State University. "One of the best things about being in a trade," says Justin, "is the friendships you develop. It's like one big family. And the benefits are top notch."

The building trades apprenticeship programs also have articulation agreements with Sinclair Community College and Cuyahoga Community College, where some of their classroom instruction earns them college credit toward an Associate's Degree. Patricia Pietrarroia, the Program Coordinator for Cuyahoga noted that they also

have an articulation agreement with Kent State University so earned credits apply towards a BA in Construction Management.

A drawing was held for two \$500 scholarships for seniors who plan to pursue a future in the Construction Industry. Congratulations to Dayton Ponitz Center and Fairborn High School for



*Counselors learn about the various building trades apprenticeship programs.*

winning the scholarships, sponsored by the Miami Valley Building Trades Apprenticeship Group.

*For more information, visit [www.daytonapprenticeships.org](http://www.daytonapprenticeships.org).*

## **Graduation Day!**

**O**n May 25, the Dayton Ohio Area Electrical Joint Apprenticeship Training Committee (JATC) held the Class of 2011 graduation banquet. Twenty two apprentices moved up the ranks to Journeymen Inside Wiremen.

The JATC offers the best electrical worker training in the area. For the last seven years, their grade point

average of 90%, has been well above the national average. Training is sponsored by the Western Ohio Chapter, National Electrical Contractors Association (NECA) and the International Brotherhood of Electrical Workers (IBEW) Local 82. The state-of-the-art training facility is located in the IBEW Local 82 building on Poe Ave.

It's an arduous journey, but well worth it. The fifth year curriculum for an Inside Wireman includes 216 hours of classroom training, 4 Saturday classes, 30-hour OSHA training, State of Ohio Fire Alarm certification, and Electrical Project Supervisor I Training.

Instructors for the electrical Training Center

include Journeymen, Contractors, and Electrical Inspectors. The Training Center offers two programs. The Inside Wireman is a five-year training program and requires a minimum of 8,000 hours of on-the-job training in the electrical construction industry with the supervision of a journeyman wireman. In addition 900 hours of classroom instruction are required. Upon completion of the 5-year program, the apprentice graduate has earned 45 free credit hours towards an Associate Degree.

The Teledata Installer Technician program is a three year training program. It requires a minimum of 4,800 hours of on-the-job training and 480 hours of classroom related instruction. Teledata installers work on various systems including LANs, fire

alarms, nurse call, HVAC control, and security systems.

Congratulations to the Top Graduates: Daniel Watkins (95.7% GPA) and Geoffrey Lumnah (95.2% GPA)!



*Daniel Watkins*



*Geoffrey Lumnah*

**CONNECTIONS**  
Source: Ohio Chapter of National Electrical Contractors Association

**July, 2011**

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

# Electric Vehicles are here to stay!

Experts expect there will be over one million electric vehicles on the road by 2015. There are several good reasons why. There are government incentives (right now, you can get a \$7500 Federal rebate); the escalating price of gas; improved battery technology; a growing infrastructure of charging stations; the focus on buying Green and American; and the development of smart grids.

So, beyond the Chevy Volt, Nissan Leaf and Ford Focus Electric, who else is putting out the product? Well, there is the Tesla Roadster, BMW Active E, Fisker Karma, Smith Newton, Ford Transit Connect, Mitsubishi i-MiEV, Honda Fit, Toyota Prius, and the Dodge Circuit.

The infrastructure to power EVs is under development as we speak.

Charging locations will be available in your home (for overnight charging), at the workplace, and in public facilities. Automakers and utility companies are hiring



Program Management Companies to manage the customer installation process. In addition, companies such as Cracker Barrel and Macy's have both committed to installing charging stations at their facilities nationwide.

To this end, a not-for-profit, collaborative training program called the Electric Vehicle Infrastructure Training Program (EVITP) has been developed that addresses the technical requirements, safety imperatives and performance integrity of industry partners. The partner advisors include General Motors, Aero Vironment,

General Electric, the International Assoc. of Electrical Inspectors (IAEI), Schneider Electric, DTE Energy (Michigan Utility), PEP Stations, Exergonix (Battery Storage), the National Joint Apprenticeship Training committee (NJATC), the

National Electrical Contractors Association (NECA) and others.

The obvious goal of the EVITP is to create a workforce that is knowledgeable not only about the installation of electric storage devices, but understanding utility interconnect policies and requirements; utility grid stress precautions; charging station fundamentals like brand/model specific installation instructions; integration of EV infrastructure with distributed generation; knowing the National Electrical Code (NEC) standards and requirements; understanding the Internet Protocol (KP) networking of charging stations; and learning first responder safety and fire hazard measures.

The manufacturers are producing vehicles. The infrastructure is being built. NECA/IBEW members have the installation expertise...EVs are here to stay!

## History of Electrical Vehicles

1891 – William Morrison builds an electric six-passenger wagon  
1897 – First commercial EV application, fleet of New York City taxis built by the Electric Carriage and Wagon Company of Philadelphia.  
1916 – Woods Motor Vehicle Company of Chicago invents a hybrid car with both an internal combustion engine and an electric motor. Electric cars were preferred because they did not have the vibration, smell, and noise associated with gasoline cars. The only good roads of the period were in town, perfect for electric vehicles. And they did not require a manual effort to start, as with the hand crank on gasoline vehicles.

1920's – Electric car declines in popularity. A better system of roads to connect cities. Discovery of Texas crude oil reduced the price of gasoline. Charles Kettering invented the electric starter. Mass production of internal combustion engine vehicles by Henry Ford made vehicles widely available and affordable.

1964 – Battronic Truck Company delivers an electric truck to Potomac Edison Co. and in 1972, with GE, produced 175 electric utility vans.

1975 – USPS purchased 350 electric delivery jeeps from the American Motor Company.

1990 – Clean Air Act Amendment and 1992 Energy Policy Act required reductions in gasoline use.

1990's – Chevrolet S-10 pickup truck converted by U.S. Electricar. Geo Metro, was an electric-powered 4-passenger sedan powered by an alternating current motor and lead-acid batteries. Ford offered an electric version of its Ford Ranger pickup. GM designed the EV1, a 2-passenger sports car.

## 2011 Motor Trend Car of the Year, *Chevy Volt*

**V**olt is Chevrolet's ground-breaking electric vehicle that was voted the 2011 Car of the Year. Plug it in, let it charge overnight, and it's ready to run on a pure electric charge for up to 40 miles — gas and emissions free.

According to Chris Theodory, a consultant judge for this year's COTY panel, the Chevy Volt "is a fully developed vehicle with seamlessly integrated systems and software, a real car that provides a unique driving experience." Recharging is easy, via a 110-volt portable charger or with an installed 220-volt charger which cuts recharging time from 11 hours to 4 hours.

### Distance

Touted as the "world's first mass-produced electric vehicle with extended range capability," Chevy's Volt has a total driving distance of about 350 miles. For the first 25 to 50 miles, the Volt utilizes electricity stored in the 16-kWh lithium-ion battery. When the battery runs low, the gas-powered generator kicks in, providing an additional 300 miles to the extended-range electric vehicle (E-REV). Besides its all electric mode, with a range of up to 40 miles, the Volt uses a three-cylinder turbo charged one-liter engine with 160 horsepower and 236 foot-pounds of torque. This means, in theory, the driver could go to work and back and never spend a dime on gas.



Our friend and colleague, Julie Bernard, passed away on Wednesday, July 13, 2011. As the Office Manager at WOCNECA for nearly a decade, she was the “go to” person for action on countless long-term projects and day-to-day functions.

Julie had the joy of being close to her daughters and grandchildren, all in the Dayton area. She was generous and thoughtful and always ready with an understanding ear. She is greatly missed.

Presorted  
Standard  
U.S. Postage  
PAID  
Dayton, OH  
Permit 644



## SAFETY EXPO 2011

Thursday, September 15, 2011, 3pm - 9pm

IBEW Local 82 Union Hall, 6550 Poe Ave.

- Speakers include National NECA Safety Director Jerry Rivera and Drake Drobnick from e.Hazard.com.
- Demonstrations from DP&L and MSA Fall Protection
- See the latest in PPE at the Trade Show

Visit [www.ibew82.org](http://www.ibew82.org) for more information

## OHIO ENERGY SOLUTIONS SUMMIT

OHIO ELECTRICAL LABOR / MGMT. COOPERATION COMMITTEE

- **Trade Show** with manufacturers of Renewable Energy and Energy Management technology and products
- **General Session / Key Note Speakers**
- **Breakout Sessions** including demonstrations
- **Women in Construction**
- **Photovoltaics, Smart Grid Technology and Smart Meters**
- **Electric Vehicle Charging Stations**, demo and presentation

Visit [www.oelmcc.org](http://www.oelmcc.org) for more information.

### 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  
Sidney Electric Company  
Studebaker Electric  
Wagner Industrial Electric  
York Electric, Inc.

#### Contributing Contractors

Automated Controls  
Bright Street Electric  
Cougar Electric, Inc.  
DeBra-Kuempel, Inc.  
Glenwood Electric  
Lake Erie Electric  
M.B.A. Electric, Inc.  
Power Services  
Productive Electric, Inc.  
Spurling Electric Co., Inc.  
Triad Electrical  
Wave Electrical Services  
Wilson Sign Company

#### Affiliate Members NECA

Battelle & Battelle  
Becker Electrical Supply  
Copp Systems Integrator  
FD Lawrence Electric Company  
Graybar Electric Co., Inc.  
Heapy Engineering LLC  
Riffle & Associates  
Square D / Schneider Electric  
Uptime Solutions

*Western Ohio Chapter - NECA  
3131 South Dixie Hwy. Ste. 415  
Dayton, OH 45439*