



# CONNECTIONS

Western Ohio Chapter • National Electrical Contractors Association



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January, 2014

## Construction Careers

The Eighth Annual Dayton and Miami Valley Construction Career Expo was held Tuesday, October 8, 2013 at the Montgomery County Fairgrounds, Coliseum Building. Sponsored by the Miami Valley Alliance of Construction Professionals (MVACP), the event provided a unique and interactive learning experience about the Miami Valley Construction Trades. The construction industry is one of the nation's largest employers, with over 6 million workers.

Over 400 high school students, along with their instructors participated in the Expo. Students were bussed in from 9am to 1pm. Several



Students try their hand at welding.

schools, programs, and career tech centers participated, including Dayton Public High Schools: Belmont, Dunbar, Gardendale Academy,

Meadowdale and Thurgood Marshal; Kettering Fairmont; Mount St. Academy; Springfield-Clark CTC; Trotwood Madison; and more. As students arrived, they were directed to a registration and instruction meeting. Randall Fox, Executive Director of the AGC West Central Ohio Division, presented a

summary of apprenticeship training and informed the groups of the days events and rules. Students then attended the Expo where eleven apprenticeship programs set up exhibitors' booths with hands on experiences, which included: laying brick, pouring plaster molds, learning precision

leveling, welding and torch cutting, building a tool box, and trying their skills in virtual



Electrical demonstration by Dick Brooks.

equipment operating. The students were also able to discuss career opportunities with Apprenticeship Coordinators.

Exhibitors included various union construction trades: Bricklayers, Plasterers,

*Cont'd pg.2*

## Dick Brooks *moving on*

After serving as an electrician in the US Navy for four years, Dick started his apprenticeship training in Dayton in 1981. Upon completion of the program, he went to work in the field as a Journeyman Inside Wireman and Foreman; during which time, he became an Instructor for the JATC (Electrical Training Center) in 1987. Dick was appointed to the position of Assistant Training Director in January of 2001, and moved up to the Training Director's position in October of 2006.

During his tenure as a Director, Dick served on several Advisory Committees for the National Joint Apprenticeship and Training Committee. In 2007 he received a huge honor by being appointed to the National Electrical Training Director's Association's Inside Education Committee, which oversees curriculum and curriculum development for the Inside Wireman's program on a national basis.

Dick was also Chairman of the Local 82 Safety Committee for 11 years

establishing OSHA 10/30 hour training classes, confined space training, electrical safety related work practices classes, as well as CPR, First Aid, and AED. He was heavily involved in the Labor Division of the National Safety Council, serving as Chairman of the Promotion of Safety, Training and Education Committee.

Dick graduated from the National Training Institute in 1996, and received his Associate's Degree from Sinclair in 2005.

Dick, married 33 years to wife Cherylann, has two daughters; Sarah and Rachel with sons-in-law Terry and

Tommy. There are four grandchildren; Nicholas, Chloe, Ethan, and Zachary.

Dick's contribution to the electrical trades is immeasurable. The Dayton Apprenticeship Program is the best in the state. We wish him well in his retirement.



Training Director Dick Brooks.

## Expo *cont'd.*

Carpenters, Electricians, Ironworkers, Plumbers & Pipefitters, Sheet Metal Workers, Operating Engineers, and Laborers.

The International Brotherhood of Electrical Workers (IBEW) Local 82 and the Dayton, Ohio JATC (Apprenticeship Program)

teamed up to showcase both Commercial and Residential wiring samples. Students also had an opportunity to bend conduit to use as a putter to try their luck on a putting green. Those with a “hole-in-one” were given a free IBEW T-shirt. The Expo concluded with lunch service and a door prize raffle.



*Brick laying.*



*Operating Engineers back hoe simulator.*

## DID YOU KNOW!

- Electricity travels at the speed of light, more than 186,000 miles per second! If you had a light bulb on the moon connected to a switch in your bedroom, it would take only 1.26 seconds for that bulb to light up, 238,857 miles away.
- A spark of static electricity can measure up to three thousand (3,000) volts.
- In the past decade scientists developed the laser, an electronic appliance that emits a beam of light so powerful that it can vaporize a bulldozer 2,000 yards away, yet so precise that doctors can use it to perform delicate operations on the human eyeball.

## URS Telethon

The United Rehabilitation Services (URS) held their twelfth annual telethon at WDTN TV Channel 2 studios on Sunday, December 8, 2013. The presenting sponsors this year was the Western Ohio Chapter of the National Electrical Contractors Association (NECA) and International Brotherhood of Electrical Workers

(IBEW) Local 82. Several volunteers were on hand to



*WDTN Anchor Mark Allan (left) with IBEW Local 82 Business Manager Nick Comstock.*

and the amount of contributions collected.

For over 50 years, United Rehabilitation Services has been providing hope for families around the Miami Valley. The URS began in the 1940s as an informal support group created by parents advocating for their children with cerebral palsy. The URS offers a wide variety

home-based personal care, in-home respite care, latch key program for youths 10 to 18 years old, physical therapy, senior daycare, speech pathology and vocational training.



*WDTN Co-Anchor Katie Ussin and client Trinity Douglas (left) present a wreath to Nick Comstock. URS Executive Director Dennis Grant looks on (far right).*

take calls from donors. This is one of the biggest fundraisers for the URS and was a huge success! They set a new record of collecting over \$121,000! Executive Director Dennis Grant was elated with the number of volunteers that participated in the telethon,

of services for people with disabilities and their families, including: adult daycare, adult latch key, augmentative communications, the Berry Hearing Center, childcare for six weeks to nine years, community employment, hearing aid sales and service,

IBEW Local 82 Business Manager Nick Comstock opened the telethon. “The work URS does with the children they help is phenomenal. It is a great partnership,” says Nick.



*January, 2014*

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

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# LED vs Incandescent vs CFL

**Sometimes it's a mystery. Which light bulb is the most energy efficient? What's the cost difference?** To put it simply, LED light bulbs will eventually be what we use to replace incandescent bulbs – CFLs are merely a stopgap measure. LED bulbs are made out of clusters of light emitting diodes – you've seen them in use in countless places, but perhaps most commonly as the small indicator lights on electronic devices. LEDs use very little energy for the amount of light they produce.

The problems with using LEDs for normal light bulbs are many. For one, the light they produce is directional, meaning that they work great for things like flashlights where you want to point the light in one direction, but they don't work nearly as well for general room lighting. For another, individual LEDs generally aren't all that bright – individual ones don't produce a great deal of light, certainly not enough to light up a room.

LEDs produce a much smaller amount of heat than both incandescent and CFLs. LED bulbs perform really well in cold temperatures, are very durable, and good all year



round outside. The cost of LEDs is significantly higher than both incandescent and CFLs, so look at your LED bulbs as an investment and use them in the parts of your home that will yield the best return. Another problem is that the process for making truly white LEDs pushes the very limits of technology. In short, LED light bulbs are just barely at the edge of being commercially viable. But they are the future.

Compact fluorescent light bulbs (CFLs) use up to 75 percent less energy than traditional incandescent bulbs and last about six times longer. Users have criticized these energy-saving bulbs for a host of reasons – from harsh light to humming noises to health concerns. CFLs require a small amount of mercury (about 4 milligrams per bulb on average) to produce light. To put that figure in perspective, the mercury content of a CFL is less than one percent of the amount present in the mercury thermometers of years past. That said, many users still express concern about trace levels of mercury, which may be a factor in your decision to go with LEDs instead.

The best way to compare the three types of bulbs is to calculate their costs over 30,000 hours of usage – the lifespan of a single LED bulb. (This amounts to 1250 days or 3.5 years).

The CFL has a lifetime of 8,000 hours, so you would need 3.75 bulbs over a period of 30,000 hours. A CFL can be purchased for \$1.24, so the total cost for bulbs would be \$4.65, and it would use 390 kilowatt hours. At the current approximate price of \$0.10 per kilowatt hour, you would have to pay \$39.00 to run a CFL bulb over this period. Total cost: \$43.65.

It would take 23, 60-watt incandescent bulbs to last 30,000 hours. A single bulb can be purchased for \$0.34, so the total cost for bulbs would be \$7.82. It uses 1,800 kilowatt hours over a period of 30,000 hours. So you would pay \$180.00 to run an incandescent bulb over this period. Total cost: \$187.82.

The LED bulb has a lifetime of 30,000 hours, so you would only need one bulb to cover the period. Unfortunately, that single bulb has a cost of \$119.99. As it uses 7.5 watts over a period of 30,000 hours, the price to run the LED bulb would be \$24.50. Total cost: \$144.49. So now it's up to you!

## GE EPISCENTER: Best in State

### Dayton GE dubbed best in Ohio: A Chapel Electric Project

The GE Aviation EPISCENTER on the University of Dayton's campus is the best economic development project in the state. So says the Ohio Economic Development Association.

As Dayton works to increase its prominence in the aviation industry, the EPISCENTER has been a major success. It comes as GE Aviation has staffed up its six Ohio facilities and looks to double its jet engine production over the next 10

years. GE Aviation employs 9,000 people in Ohio, and the state has the third-largest number of aircraft-related jobs in the U.S.

The EPISCENTER, a \$53 million, 138,000 square foot facility with labs and office space, allows GE Aviation engineers, UD researchers and graduate students to research aircraft power systems.

"The project represents the university's long-term commitment and collaboration with the city and many other stakeholders to return this gateway area to being a thriving economic engine of

the city," said former Dayton Mayor Gary Leitzell in a letter, terming the project a "signature development for the city, if not the entire state."

The EPISCENTER sits on eight of the 50 acres of land UD

acquired from NCR Corp. in 2005, along River Park Drive.

That land has seen significant investment, including \$10 million from the Clean Ohio

Revitalization Fund and other federal agencies for cleanup and infrastructure, and another \$7.6 million from Ohio Third Frontier Funds and the University of Dayton Research Institute to support the

EPISCENTER.

In all, 50 workers will be employed at the site by the end of the year, with long-term employment

expected to be 150 or 200 within five years.





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It's a new year....and some of us have been successful, and some not quite so fortunate. Let our New Year's resolution be this: we will be there for one another as fellow members of humanity, in the finest sense of the word.

- Goran Persson

