

Electric Expo 2011 "Green" Energy and Safety

Electric Expo 2011 will be held Wednesday, October 12 and, Thursday, October 13 at the Valley Forge Convention Center. With more than 200 exhibitors, the Expo will run from 2:00 p.m. - 8:00 p.m. on Wednesday and from 2:00 p.m. - 7:00 p.m. on Thursday. Entrance to the Expo floor is FREE!

This year, the EAP extends a special welcome to facilities electricians, engineers and managers to attend. While they have always been welcome, this year there will be specific products, services and education focusing on their needs. Of course, our entire industry is welcome as always, and as they have been over the last 62 EAP expositions, dating back to the 1920's!

Also, we are offering continuing education units (CEUs) for contractors, PEs, and inspectors through seminars available at a very low cost. Our seminars this year will target these subjects:

- (1) Green Engineering (PV Solar Interconnection Requirements; LEDs - Myths, Realities and Future)
- (2) Electrical Safety Issues (Lockout-Tagout; Arc Flash; Personal Protective Equipment)
- (3) National Electrical Code (NEC) 2011 Updates

Watch your mail for details about upcoming attendee registration information, too!

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\$67.4 Million
in
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Energy Efficient
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your projects?
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See page 6

Kevin Lane Elected New EAP President

Kevin Lane assumed the office of EAP President as of January 1, 2011. He was interviewed recently by the EA Extra (EAX) about beginning his two year term:

EAX: What are your priorities as incoming president of the EAP?

First, I would like to say that I am honored to be elected President of the EAP. It is an organization with a great history and a very promising future. Some of the very best people in our industry continue to be involved.

That said, I have three priorities as your new President:

- (1) Find ways to get more involvement from younger people within our industry.
- (2) Keep the synergy going between



EAP President Kevin Lane

all segments of our membership.

- (3) Look for ways to reach out and bring into the mix "green" companies (solar, wind, etc.). Enlist them to be part of our EAP membership.

EAX: What challenges do you see for associations generally, and for the EAP specifically?

Growing and maintaining membership for all associations is tough in the given economic climate. The EAP is not exempt from that.

In general, associations and their members aren't getting any younger. Finding ways to bring younger people into the mix should be a priority for all associations, including the EAP.

(Continued on page 2)

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Kevin Lane Interview

(Continued from page 1)

EAX: How do you think we can make the EAP even more valuable to its membership?

I think we need to continue to offer educational opportunities at a discounted rate to all members. We also need to continue to look for new benefits which will help members in their everyday business. And we need to look for ways to bring all segments of our membership together.

To do all of these things, we will need each of our members to become involved. I thank all of those who are currently participating. To those who are not involved, I say, "try us out." I think you will be surprised at how rewarding it can be to get involved in this regional community we have created through the EAP. I welcome your participation, and I am sure you will find it worthwhile.

Kevin Lane is Branch Manager in both Langhorne and Huntingdon Valley, Pennsylvania for United Electric Supply, Inc.



July 1, 2011 is fast approaching....

As of July 1, 2009, consumers in Pennsylvania were able to verify your registration by visiting the List of Registered Contractors or by calling a toll-free hotline, 1-888-520-6680.

Home improvement contractor registrations are valid for two years, and must be renewed biennially.

Most common questions that are asked by members:

Do contractors need to show their registration to their customers or display the registration in their business?

The law does not require contractors to show copies of their registration. After registering, a home improvement contractor registration certificate will be issued to the contractor. If contractors wish to display it, they may but they are not required to do so. However, contractors must include their registration number in their advertisements, contracts, estimates and proposals.

Do contractors need to display their registration number on their vehicles? **The law requires registration numbers in any advertisements used by contractors.** If a contractor has an ad for their business on their vehicle, the ad must include their registration number. **If the vehicle does not have advertising promoting the business, then the contractor is not required to display their registration number on the vehicle.**

Contractors with questions about the law can call, 717-772-2425.

Final Dues Invoices - April 2011

Final Invoices for 2011 will be mailed in April. If you have not paid your dues for this year, **you will be dropped from EAP membership.** If you have questions, please contact Mair at mair@eap.org or by calling (610) 825-1600, ext. 12.

Come to Electric Expo 2011

Who Attends the Expo?

Facilities Electricians and Engineers, Building Owners and Facility Managers, Design and Consulting Engineers, Electrical Contractors, Distributors, Utilities, Purchasing Agents, and Electrical Inspectors come to see what new products the exhibitors will introduce at the Expo. This is a unique opportunity to see the latest and greatest the industry has to offer!

Who Exhibits at the Expo?

The Electric Expo exhibitor base is comprised of manufacturers of commercial, industrial, residential, institutional, government, transportation, utilities, HVAC, and voice/data products. We also have a number of exhibitors who provide services related to the electrical industry, such as testing and computer software products. Exhibitors travel to the Expo from across the United States and Canada. They realize that the Expo is great place to meet potential customers face to face and offer new product demonstrations! Call for a prospectus.

We'll Get You There!

Participating distributors offer their customers transportation to the Expo! Ask your distributor if they are bringing a bus to the Expo from your area. Don't miss this bus!

How To Register for the Seminars

Registering will be simple and inexpensive! Watch your mail for registration information.



EAP Website Advertising

WWW.EAP.ORG

COST: Only \$500 per Ad for the entire year!

WHAT does \$500 Buy Your Company?

An Ad placement on eight (8) of The EAP's pages:

- Membership Opportunities • Educational Opportunities • Meetings, Events and Shows
- Municipal Contact List • Heating and Air Rebates
- Industry Resource • Educational Foundation and • PECO Rebate pages .

FEEDING A SEPARATE STRUCTURE (Part I)

By: Michal Hofkin,
Middle Atlantic Inspections, Inc.
IECA, IAEE, EAP, NFPA, UL STP 719

Welcome back to the Code Corner®. This month our focus is on providing power and communications circuits to a separate structure on a property that does not have its own electrical service or communications utility service.

Article 225 of the 2011 National Electrical Code (NEC) contains the requirements for outside feeders. We are immediately directed to Article 220, as we need to perform a load calculation in order to properly size our feeder, as per Section 225.5 and 225.8(B).

Sections 225.10 through 225.22 provide the rules for installing the conductors and raceways between the structures, attaching them to structures, required clearances, masts as supports, and other information related to the exterior portion of the feeder. Many of these requirements mirror those that we are already familiar with regarding service installations. Section 225.26 prohibits the use of trees and other vegetation as supports for overhead conductors.

Part II of Article 225, beginning with Section 225.30, provides the requirements for feeding a separate structure. The general rule is that each building shall be supplied with only one service, feeder, or branch circuit. There are exceptions and a careful reading of 225.30(A)-(E) is warranted.

Section 225.31 requires a disconnecting means for all conductors that supply or pass through a structure, and Section 225.32 tells us that this disconnecting means is to be located at the structure served, either outside or inside nearest the point of entry. The parameters of Section 230.6, which define conductors that are considered outside the building, also apply.

Sections 225.33 through 225.37 inform us that the six-disconnect rule that we are familiar with applies, and that the disconnecting means shall be grouped, marked, and accessible to occupants. Section 225.36 is notable as it mandates that the disconnecting means be suitable for use as service equip-

ment. The exception for garages and outbuildings at dwelling units that allows for the use of snap switches is located here. The installer must realize that even if he is using this exception, the first device at the garage/outbuilding must be a switch. It is illegal to feed a receptacle first as this does not provide a disconnecting means as required in 225.31.

Section 225.39 provides the rules for the rating of the disconnecting means. First and foremost it must be large enough for the calculated load. The last sentence in 225.39 states that there are certain minimum ratings and that we must never install a disconnect that is below this rating. For one-circuit installations the minimum rating is 15 amperes, and for two-circuit installations the minimum rating is 30 amperes for the feeder. In Section 225.39(C) the code mandates that the feeder disconnect rating for a garage or outbuilding at a one-family dwelling be 100 amperes minimum. This means that even if you are running a smaller feeder, the disconnect must have a 100 ampere rating. This rule does not apply if installing a single circuit or a feeder that supplies not more than two circuits. All other installations require a minimum disconnect rating of 60 amperes.

GROUNDING

Sections 250.32(A) and (B) require us to install a grounding electrode or electrode system at the structure supplied, and we must provide an equipment grounding conductor (EGC) with the feeder or branch circuit that supplies the structure. In the case of a one-circuit installation, the grounding electrode/electrode system is not required. In the past, it was possible to omit the EGC if there were no metallic paths between the structures. This option has been removed from the code.

Section 250.94 requires that an intersystem bonding termination (IBT) be provided at the separate structure. There are exceptions to this rule, which we will cover in Part II of this article. The IBT will play a significant role in the installation of communication wiring to the structure.

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H & A/C Contractors Rebate Program SPRING PROGRAM IS UNDERWAY!

Spring 2011 program in full swing with 93 EAP participating contractors. Dates are:

Spring 2011 Program dates are:

Contracts cannot be signed before:	Friday, May 13, 2011
Contracts must be signed by:	Tuesday, February 1, 2011
Deadline for installation:	Friday, May 27, 2011
Paperwork due date:	Friday, June 10, 2011

For additional information on the program, log onto: www.eap.org

2011 Spring Educational Opportunities

Presented by: The Electrical Association of Philadelphia

Solar Photovoltaic Systems Installation & Design - (1 Week Course)

CEUs: 32 hours for Phila.,
32 hours NJ & 10 hours DE
Date: Monday, May 2 - Friday, May 6, 2011
Time: 7:00 a.m. - 4:30 p.m.
Cost: \$2,050 per EAP member
\$2,295 per non-member
Location: EAP Offices, Plymouth Meeting
Instructor: Rich Van Wert

Commercial Electric Wire Systems

CEUs: 8 hours for Phila., NJ & DE
Date: Thursday, May 19, 2011
Time: 7:00 a.m. - 4:30 p.m.
Cost: \$265 per EAP member
\$360 per non-member
Location: EAP Offices, Plymouth Meeting
Instructor: Rich Van Wert

For detailed information, contact Lisa Cacia at 610-825-1600 ext. 14, lisa@eap.org or log onto: www.eap.org

2011 Fall Educational Courses

Presented by: The Electrical Association of Philadelphia

Transformers

CEUs: 8 hours for Phila., NJ & DE
Date: Friday, September 16, 2011
Time: 7:00 a.m. - 4:00 p.m.
Cost: \$250 per EAP member
\$375 per non-member
Location: EAP Offices, Plymouth Meeting
Instructor: Rich Van Wert

Electrical Blue Print Reading

CEUs: 8 hours for Phila., 8 hours for New Jersey
5 hours for Delaware
Date: Friday, November 4, 2011
Time: 7:00 a.m. - 4:00 p.m.
Cost: \$250 per EAP member
\$375 per non-member
Location: EAP Offices, Plymouth Meeting
Instructor: Rich Van Wert

One & Two Family Dwellings

CEUs: 8 hours for Phila., NJ & DE
Date: Thursday, September 22, 2011
Time: 7:00 a.m. - 4:00 p.m.
Cost: \$250 per EAP member
\$375 per non-member
Location: EAP Offices, Plymouth Meeting
Instructor: Michal Hofkin

Fire Alarms

CEUs: 8 hours for Phila., NJ & DE
Date: Friday, November 18, 2011
Time: 7:00 a.m. - 4:00 p.m.
Cost: \$250 per EAP member
\$375 per non-member
Location: EAP Offices, Plymouth Meeting
Instructor: Rich Van Wert

Grounding & Bonding

CEUs: 8 hours for Phila., NJ & DE
Date: Thursday, October 6, 2011
Time: 7:00 a.m. - 4:00 p.m.
Cost: \$250 per EAP member
\$375 per non-member
Location: EAP Offices, Plymouth Meeting
Instructor: Michal Hofkin

*Checked Out Our
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Welcome New Members!

Please Join The EAP in Welcoming Ten New Members!

EMC2 Development Company, LLC

Engineer - Consulting Firm

Mr. Timothy J. Seelaus

1925 Lombard Street
Philadelphia, PA 19146-1411

(410) 531-2480

tseelaus@emc2devco.com - Email

*Special thanks to **Fod Vick** of Philadelphia Lighting Maintenance and **Bob Makim** of Diversified Energy Associates for sponsoring EMC2 Development Company, LLC.*

Okeefe Electric

Electrical Contractor

Mr. Michael Okeefe

313 Summit Avenue
Norwood, PA 19074

484-686-7402

484-494-6049 Fax

mikeok@rcn.com - Email

*Special thanks to **Don Kaut** of Natale Electric and **Len Warren** of United Inspections for sponsoring Okeefe Electric.*

Comfort Systems, Inc.

Air Conditioning & Heating

Mr. Rick Holland

372 Fairhill Drive
Southampton, PA 18966

(215) 322-9400

info@yourcomfortsystem.com - Email

www.yourcomfortsystem.com - Web

*Special thanks to **Tim Grable** of Peirce-Phelps, Inc. and **Dan D'Amico** of Comfort Control for sponsoring Comfort Systems, Inc.*

Good Air Conditioning & Heating

Air Conditioning & Heating

Mr. Larry Good, II

1956 West Maple Avenue
Langhorne, PA 19047

(215) 757-7505

(215) 757-7569 Fax

goodac@goodac.com - Email

*Special thanks to **Pete Thornburn** of Lyon Conklin & co., Inc. and **Deb Ott** of Riley Sales for sponsoring Good Air Conditioning & Heating*

Universal Electric, LLC

Electrical Contractor

Mr. Scott Hall

19 Castlewood Drive
Chalfont, PA 18914

(215) 822-6151

universalelectricllc@comcast.net

*Special thanks to **Mark Funk** of Mark Funk Electric Co. and **Kim Schneider** of Kim Schneider Electrical Contracting for sponsoring Universal Electric, LLC.*

B & B Mechanical Services

Air Conditioning & Heating Contractor

Mr. Chuck Bowman

1408 Elkins Avenue
Levittown, PA 19057

(215) 945-4560

(215) 945-6255 - Fax

Cbowman@bandbmech.com - Email

www.bandbmech.com - Web

*Special thanks to **Carl Ippoliti** of Peirce-Phelps, Inc. and **Frank Fiore** of York International for sponsoring B & B Mechanical Services*

G & B Comfort Design

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Mr. Gene Babichenko

625 Fairhill Avenue
Langhorne, PA 19047

(267) 741-7474

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gbcomfortdesign@yahoo.com - Email

*Special thanks to **Tina of Lennox** and **John Petruskievich** of Peirce-Phelps, Inc. for sponsoring G & B Comfort Design*

Hutchinson Plumbing Heating Cooling

Air Conditioning & Heating Contractor

Mr. Matt Humphries

621 Chapel Avenue
Cherry Hill, NJ 08034

(856) 429-8911

MattHumphries@HutchBiz.com - Email

http://hutchbiz.com - Web

*Special thanks to **Diane Camburn** of Peirce-Phelps, Inc. and **David Delancett** of York International for sponsoring Hutchinson Plumbing Heating Cooling*

Polar Air Conditioning & Heating

Air Conditioning & Heating Contractor

Mr. Richard Thal

600 Park Avenue
Media, PA 19063

(610) 565-2756

polarair@comcast.net - Email

www.polarairconditioning.com - Web

*Special thanks to **Dominic Amabile** of Aire Pro Heating & AC, Inc. and **Dave Scott** of Peirce-Phelps, Inc. for sponsoring Polar Air Conditioning & Heating*

RC Heating & Air Conditioning

Air Conditioning & Heating Contractor

Mr. Rich Crivaro

1260 Marlcrest Road
Cherry Hill, NJ 08003

(856) 751-1475

(856) 751-1483 - Fax

rchvac52@yahoo.com - Email

http://rchvac.com - Web

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Discover new measures and recent changes to the PECO Smart Equipment Incentives program, the PECO Smart Construction Incentives Program, and hear about the new tools for Trade Allies. Join us for one of our valuable information sessions with networking opportunities:

April 27, 2011

McCall Golf & Country Club
201 N. Lynn Blvd.
Upper Darby, PA 19083

Presentation

PECO Incentive Programs
3:00 - 5:00 p.m.

Reception

Drinks and hors d'oeuvres
5:00 - 6:30 p.m.

OR

April 28, 2011

Williamson Restaurant
500 Blair Mill Road
Horsham, Pennsylvania 19044

Presentation

PECO Incentive Programs
2:30 - 4:30 p.m.

Reception

Drinks and hors d'oeuvres
4:30 - 6:00 p.m.

Register Now: www.pecoeventapril.eventbrite.com

Find out what's new

- New Measures including lighting and HVAC
- New Programs including Smart Construction Incentives
- New Tools including project examples and marketing materials

Network with your peers

- Join us for drinks and hors d'oeuvres
- Enter to win fun door prizes
- Find out how to maximize your benefits with the PECO Trade Ally Program

Questions?

If you have any questions please call Jennifer Andus at 215-996-3981 or email at Jennifer.andus@kema.com. For more information on PECO Smart Ideas, please visit our website at www.peco.com/SmartIdeas or call us at 1-888-5-PECO-SAVE (1-888-573-2672).

Shopping For Electricity – PAPowerSwitch.com

PAPowerSwitch
Pennsylvania Public Utility Commission

The screenshot shows the PAPowerSwitch.com website. At the top is a navigation bar with links: Home, About Switching Power, Shop For Electricity, Help Paying Your Bill, Ways to Save Energy, and Frequently Asked Questions. Below the navigation bar is a large banner area. On the left, there is a graphic of a power outlet with a cord. To the right of the graphic, the text reads: "1,034,799 Pennsylvanians have already switched electric suppliers" with a link to "View detailed report (PDF)". To the right of this banner is a vertical menu with links: "About Switching Power", "How to Choose", "Find Suppliers", and "What to Ask". Below the banner is a text block: "Rate caps on electric generation are expiring and could mean an increase in your electric bill. But you may be able to save money by switching electric suppliers." Below this are four columns of content, each with a header, an image, a short paragraph, and a call-to-action link. The columns are: "Shop for Electric Suppliers" (image of two men talking), "Tell a Neighbor" (image of a group of people), "Help Paying Your Bill" (image of a man and woman), and "Ways to Save Energy" (image of wind turbines). At the bottom left of the page is a link: "Can't find what you are looking for? Check out our Frequently Asked Questions". At the bottom right is the PUC logo.

“Fellow Associates in the Electrical Industry”

If you could use a tax deduction in your business, I'd sincerely appreciate your support of my 12th consecutive involvement in the M/S150 Event. This is a 160 mile bicycle ride. It goes from Cherry Hill to Ocean City and back to draw attention to the debilitating illness Multiple Sclerosis. The people less fortunate than we who are afflicted with this illness would appreciate your kindness. Some can't stand; some can't walk; some can't feed themselves; others go blind, or die prematurely. Primarily their ages are between 21 and 45. In the prime of their lives.

You can buy a Road Sign with your company message

on it for \$300 for the 2 days of the ride. All 7,000 riders plus all who drive along the bike route over the 2 days will see your sign and hopefully it will cause them to want to do business with your firm.

For road signs or just to make a contribution, please send your check payable to: Multiple Sclerosis, but mail it to me: Jack Beiter, 201 Hermitage Drive, Radnor, Pa. 19087 in order that I can hand deliver it to M/S HQ and my Team will be credited with the contributions.

Thank you so much for your support.

Best Personal Regards,

Jack Beiter

Stay Connected with the EAP!

2011 Calendar Highlights

April 2011

SUNDAY	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
					1	2
3	4	5	6	7	8	9
10	11	12	13	14	15	16
17	18	19	20	21	22	23
24	25	26	27	28	29	30

May 2011

SUNDAY	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
1	2	3	4	5	6	7
8	9	10	11	12	13	14
15	16	17	18	19	20	21
22	23	24	25	26	27	28
29	30	31				

April 2011

- 14 Bucks Montgomery Electrical Contractors Section presents: "Grounding & Bonding" presented by: Erico sponsored by United Electric Supply - Sandy Run Country Club, 6:30 p.m.

May 2011

- 2-6 Solar Photovoltaic Systems, Installation & Design Training Program, Electrical Association of Philadelphia offices
- 5 Delaware County Electrical Contractors Section sponsored by Arlington Industries, "New Arlington Products", Pica's Restaurant, 6:30 p.m.
- 12 Bucks Montgomery County Electrical Contractors Section sponsored by Arlington Industries, "New Arlington Products", Sandy Run Country Club, 6:30 p.m.
- 19 Commercial Electric Wire Systems, Electrical Association of Philadelphia offices

June/July/August 2011

Have a great Summer!

For a more extensive calendar listing, please see our website, www.eap.org. For more information regarding the meetings or courses listed, please contact (610) 825-1600, or email electric@eap.org.



Extra

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of Philadelphia**

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