

ELECTRIC EXPO[⚡] 2011

THE BEST ELECTRICAL SHOW IN THE EAST!

Electric Expo 2011 will be held October 12th and October 13th at the Valley Forge Convention Center. You can view the exhibition from 2:00 p.m. – 8:00 p.m. on Wednesday and 2:00 p.m. – 7:00 p.m. on Thursday.

Entrance to the show floor is FREE! Parking is FREE! Educational seminars including lunch and providing Pennsylvania CEUs are available!

COME SEE ALL THAT'S NEW IN ELECTRICAL:

- SUSTAINABILITY
- EFFICIENCY
- FACILITIES
- LIGHTING
- SAFETY

To register for the Expo, visit the official Expo 2011 website, www.electricexpo.org.

Register by Wednesday, October 5th and enter to win \$1,000! To make reservations for your stay during Electric Expo, you may call the hotel directly at (610) 337-2000. Be sure to mention you are with the Electric Expo to qualify for the special convention rate!

Come to Electric Expo 2011

Who Attends the Expo?

- Electricians • Facilities Managers
- Electrical and Energy Engineers • Electrical Distributors • Utilities, Maintenance and Facilities Engineers • H & A/C Contractors • Purchasing Agents • Architects • Financial Officers and Managers • Specifiers • OEM Customers • Voice and Data Contractors • Building Owners and Managers

Who Exhibits at the Expo?

Electrical and lighting manufacturers serving the commercial, industrial, residential, institutional, healthcare, hospitality, government, transportation, retail and warehousing sectors.

Why attend?

Keep your competitive edge - view the latest technologies, products and services.

See your industry colleagues - everyone gets together at the Electric Expo.

Valuable seminars to sharpen your professional skills.

CEUs available! Numerous giveaways.

We'll Get You There!

Participating distributors offer their customers transportation to the Expo! Here is an excellent opportunity to enjoy transportation to Electric Expo 2011. (Attention Distributors: there are only 30 slots for buses available and **you get money back after the show**). **Don't miss THIS bus!**

Need Information 24/7?

Visit the official Expo 2011 website, www.electricexpo.org to get connected to the latest information about the Expo. You can register online, see who is exhibiting, get directions and hotel information, and more just with a click of a button.

How To Register for Seminars

This year's "Lunch and Learn" Pass is

only \$30 for each day if you pre-register, and \$40 if not pre-registered by

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Come to Electric Expo 2011

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Wednesday, October 5, 2011, or if you register onsite.

Two (2) Continuing Education Units (CEUs) are available for Professional Engineers (PEs), electricians, and electrical inspectors (Pennsylvania-based only). Please visit [www.elec-](http://www.elec-tricexpo.org)

tricexpo.org for seminar details and to register.

Buffet lunch (included) from 11:30 a.m. to 1 p.m. each day. All seminars are two (2) hours each, from 1 p.m. to 3 p.m.

Wednesday, October 12th “Lunch and Learn” Seminars - 3 Tracks:

Sustainability	Safe Facilities	NEC
<p>PV Solar: Renewable Energy Interconnection Requirements</p> <p>Barry Hornberger, PE Electrical Engineer, PECO Energy</p>	<p>Hazard Recognition and Control: NFPA 70E, NEC and OSHA</p> <p>John Kaldon, President Broad Run Consultants</p>	<p>2011 Update: Commercial, Industrial and Institutional</p> <p>Rich Van Wert, President, Electric Education Center & Mike Hofkin, Senior Electrical Inspector, Middle Department Inspection Agency</p>

Thursday, October 13th “Lunch and Learn” Seminars - 3 Tracks:

Sustainability	Safe Facilities	Lighting
<p>Sustainable Building Case Studies - Profiting from Energy Efficient Projects (non-residential)</p> <p>Michael O’Leary, CEM Manager, Energy Efficient Programs PECO Energy</p>	<p>Preventing Catastrophic Losses: Eliminating Gaps in Your Lockout/Tagout Program</p> <p>Colin J. Brigham, CIH, CSP, CPE, CPEA VP, Safety Management and Ergonomics, 1Source Safety and Health, Inc.</p>	<p>Solid State Lighting: Fact and Fiction About LEDs, OLEDs and PLEDs</p> <p>Craig A. Bernecker, Ph.D., FIESNA, LC Founder and Director, The Lighting Education Institute</p>

2011 Educational Foundation Scholarship Winners Head to College

Congratulations to four recipients of the 2011 EAP Educational Foundation Scholarship. Each student received \$3,000 scholarship to assist with tuition. We wish them the best of luck in their endeavors.

Kaitlyn Grando,

Daughter of Danielle Grando
Scott A. Martin Services
Kaitlyn will be attending
Messiah College

Emma Lagan

Daughter of James Lagan
Colonial Electric Supply Company
Emma will be attending
Hofstra University

Vincensa Mucaj

Son of Agim Mucaj
David Brandolph Electric Company
Vincensa will be attending
Northeastern University

Brian Pinder

Son of Joe Pinder
C & C Heating & Air
Brian will be attending
Villanova University

Debt Collection

BOTTOM LINE “Q & A”

Q: How Have EAP Members Collected Over \$50,000?

A: EAP Debt Collection Program

Have your overdue payables reviewed for possible collection at no charge. This EAP program enables members to begin collection proceedings through a professional.

Contact Bill Scotese to discuss your collectible:
Graphic Arts Credit Bureau,
1210 Northbrook Drive
Trevose, PA 19053 (215) 396-2300
Email: bscotese@gaa1900.com

Carnivals, Circuses, Fairs, & Similar Events

NEC Article 525

By: *Michal Hofkin,*
Middle Department Inspection Agency, Inc.
IECA, IAEL, EAP, NFPA, UL STP 719

Welcome back to the Code Corner©! In this edition we will review the requirements for safely wiring those come-in-for-a-week-and-leave Carnivals and Fairs. For the purposes of this article, the term 'carnival' will be as an example of any similar installation.

Section 525.3(A) tells us that in the case of a conflict between the rules in this Article and other Articles in the NEC, the requirements in THIS Article take precedence for these types of installations.

In 525.3(B) we are informed that Article 518, Assembly Occupancies, and Article 520, Theaters, Motion Picture and Television Studios, and similar locations, apply to the permanent structures at a carnival. This means that metal raceways, flexible metal raceways, nonmetallic raceways encased in not less than 2 in. of concrete, MI, MC, or AC Cable are the allowed wiring methods for general structures. In structures or portions thereof that are not required to be of fire-rated construction, other wiring methods, including Type NM cable, are permitted. Sections 525.3(C) and (D) inform us that Articles 640 and 680 may also apply.

The requirements for overhead conductor clearances are found in Section 525.5. In the case of overhead conductors that under 600 volts, portable structures must be at least 15 feet, in any direction, from the overhead conductors. Portable structures are not permitted in the area below conductors over 600 volts, or in the space that extends 15 feet horizontally and extends vertically to grade. The latter requirement was modified to be more stringent in the 2011 NEC.

Section 525.10 indicates that a service shall be installed so as to prevent access by unqualified persons unless it is lockable, and that the equipment shall be securely mounted to a solid backing. Indoor equipment may be installed in a 'shed' enclosure to protect it from the weather, or the equipment shall be weather resistant.

In the event that there are multiple power sources at the site, such as generators and/or services or any combination thereof, Section 525.11 requires us to bond together the equipment grounding conductors of all sources that supply any structures that are separated by less than 12 feet.

Flexible cords and cables are used extensively in these installations. The code guidance is found in Section 525.20, Wiring Methods. Cords shall be listed for extra-hard usage unless they are not subject to physical damage. Additionally, if they are used outdoors, they shall be listed for wet locations. Extra-hard usage cords are permitted as the permanent wiring on portable amusement rides and attractions where not subject to physical damage. Single-conductor cable is only permitted in size 2 AWG or larger. Open conductors, except as part of a listed assembly or for festoon lighting, are prohibited.

Splices for cords and cables shall be made in a box. Cord connectors shall not be laid on the ground unless listed for wet locations. Connectors and cable connections shall be guarded if in audience traffic paths or in areas accessible to the public. There are several products that allow cables to be recessed with-

in them and can be walked over, or in some cases, driven over. The installer is also permitted to bury the cables to provide protection from damage and to prevent a tripping hazard. Interestingly, the requirements of Section 300.5 do not apply. This allows for a shallow trench to serve as the protection means.

All rides, tents, and concessions shall have a disconnecting means, as per Section 525.21(A). The disconnecting means shall be located within sight and within 6 feet of the operator's station. Alternately, a shunt-trip device that operates when the operator closes a circuit via a switch on a control panel is permitted.

Portable wiring within tents, etc., shall be securely installed and be provided with mechanical protection if subject to physical damage. See Section 525.21(B).

Section 525.22 provides a laundry list of requirements for portable distribution or termination boxes. The construction criteria, busbar and terminal requirements, and the receptacle and overcurrent protection rules are found here. Noteworthy are the requirement for outdoor boxes to be constructed so that the bottom is at least 6 inches above the ground, and the need for overcurrent protection for the receptacles within the distribution box.

The GFCI requirements for these events are provided in Section 525.23. All receptacles used during set-up and disassembly, those accessible to the general public, and any equipment supplied by a 125-volt, single phase, 15- or 20-ampere branch circuit that is accessible to the general public shall have GFCI protection. GFCI protection is not required for receptacles that are not accessible from grade and that are used for quick connection or disconnection of equipment. These receptacles shall of the locking type. Egress lighting is not permitted to have GFCI protection.

Part IV of Article 525, beginning with Section 525.30, deals with the bonding and grounding rules for carnivals. Other than the allowance for the equipment grounding conductor of the circuit most likely to energize the equipment to serve as the bonding conductor for that equipment, the requirements here are typical of most installations. An additional noteworthy stipulation is that the continuity of the grounding conductor system must be verified each time that portable electric equipment is connected.

The above is not a formal interpretation of the National Electrical Code. All references, duplicated code language, and paraphrasing is from the National Electrical Code (NFPA-70) 2011 edition.

About the author: Michal Hofkin is a Senior Electrical Inspector for Middle Department Inspection Agency, Inc. He is a Past President and the current Secretary of the Benjamin Franklin Chapter of the IAEL. In 2009 he was appointed to UL Standards Technical Panel 719. Mr. Hofkin has been teaching NEC and electrical courses for over 20 years and is a seminar leader/instructor for several professional and educational organizations. To schedule training or to ask questions please contact him at 215-244-1919 or mhofkin88@comcast.net.

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H & A/C Contractors

FALL PROGRAM IS UNDERWAY!

Fall 2011 program in full swing with 92 EAP participating contractors.

Need to replace your heating system, thinking about maybe it is time to replace your central air?

Select members of The Electrical Association of Philadelphia's Heating and Air Conditioning Section are participating in our Fall Rebate Program to make it easier for you to benefit from a heat pump or high-efficiency central air conditioning system. Here's how the rebate works:

To qualify, you must work with an EAP participating contractor & manufacturer to install one of the following, see below

* ENERGY STAR® Residential High Efficiency Equipment (Manufacturer Approved Matches)

\$300 on a 14.5 to 14.99 SEER, 8.2 HSPF, 12.0 EER (or higher) heat pump

\$300 on a 14.5 to 14.99 SEER, 12.0 EER (or higher) central air conditioning

\$500 on a 15.0 to 16.99 SEER, 8.2 HSPF, 12.0 EER (or higher) heat pump

\$500 on a 15.0 to 16.99 SEER, 12.0 EER (or higher) central air conditioning

\$700 on a 17.0 or higher SEER, 8.2 HSPF, 12.0 EER (or higher) heat pump

\$700 on a 17.0 or higher SEER, 12.0 EER (or higher) central air conditioning

\$800 on an 18 EER geothermal heat pump system (or higher)

* Additional \$100 on a dual fuel heat pump (hybrid) - Minimum 14.5 SEER, with manufacturer recommended controller. This is NOT a separate rebate.

* ENERGY STAR® Small Commercial (1-5 ton) High Efficiency Equipment

\$300 on a 14.0* SEER, 11 EER, 8.0 HSPF or higher heat pump or A/C packaged

\$300 on a 14.5* SEER, 12 EER, 8.2 HSPF or higher heat pump or A/C split system (11.0 EER for systems 6 tons and up)

An EAP contractor will subtract the rebate from your contract and final invoice, dependant upon the equipment you choose.

• Rebates will be offered on *full heat pump or central air conditioning systems*. For **heat pump systems**, this means that both the outdoor unit and indoor air handler must be replaced. For **central air conditioning systems**, this means that the outdoor unit, indoor fan-bearing unit/furnace, and coil must be replaced. *Add-on coils only are not eligible for a rebate.*

• This offer is only valid from Sunday, August 14, 2011 - Saturday, November 12, 2011. All work must be completed during this time frame. Contracts must be signed Saturday, November 12, 2011. All systems must be installed by Saturday, December 3, 2011.

• **Monthly Payment** - Financing or "Energy Loan" Financing may be available. Ask your EAP contractor.

PECO Smart house rebates can be combined with this rebate. Participating EAP Contractors:

Steve Borell
Aaron Air LLC
(215) 704-5613

James Brewer
AccuTech Mechanical Services
(215) 822-9115

Joe Devine
AQM
(610) 363-3940

Joseph Ashenbrenner
J. L. Ash, Inc.
(215) 379-2463

Chuck Bowman
B & B Mechanical Services
(215) 945-4560

Carmen Battavio
Battavio Plumbing, Heating & Cooling
(610) 692-7960

Talmage P. Stewart, III
Blue Bell Heating & A/C, Inc.
(610) 631-9611

Matt Borden
Matthew R. Borden Heating & Cooling
(610) 325-9966

Ed Boyle
Boyle's Heating & A/C, LLC
(215) 953-7500

Mark Ronayne
Brandywine Valley Htg & A/C, Inc.
(610) 692-3900

Robert Brewer
Brewer Heating & Air Conditioning
(610) 692-5252

Mike Kerrigan
Brinker's Energy
(215) 534-5748

Darin McCaul
C & C Heating & Air Conditioning
(215) 799-0515

Taylor Caldwell
Caldwell Heating & Air Conditioning
(610) 240-7840

Kevin Carney
Carney Plumbing Heating & Cooling
(215) 822-9029

Bob Cermignano
Bob Cermignano A/C & Htg., Inc.
(610) 642-6323

Richard Scheibe, Sr.
Chester County Fuel Oil, Inc.
(610) 344-7234

David A. Peppelman
Christian Heating & A/C, Inc.
(215) 357-5012

John Cipollone
John Cipollone, Inc.
(610) 446-7877

Daniel D'Amico
Comfort Control Corp.
(215) 938-1991

Rick Holland
Comfort Systems, Inc.
(215) 322-9400

Paul Compton
Compton Mechanical Services
(215) 663-8690

Rocky Condino
Condino Heating & A/C, Inc.
(215) 468-8116

Bill Sweeney
Cool It, LLC
(610) 534-8771

- Scott McGonigal**
Cool Rite A/C & Htg., Inc.
(215) 750-0577
- Stanley W. Cooper**
Stanley W. Cooper
(215) 675-8100
- Harvey J. Crossan**
Richard M. Crossan, Inc.
(610) 268-8548
- Paul Steffanelli**
Custom Cooling Services, LLC
(609) 397-4422
- Scott Schneider**
Custom-Aire, Inc.
(215) 638-1800
- Michael Jordan**
Michall Daimion Heating & Cooling
(610) 644-0537
- Jim Reese**
Davis Modern Heating & Cooling
(610) 277-2656
- Fred Berger**
Design Air, LLC
(267) 391-9639
- Mike Kerrigan**
Diamond/Delchester/Major Energy
(215) 534-5748
- Vince DiFilippo**
DiFilippo's Service Company
(610) 240-4789
- Thomas G. Donnelly**
Donnelly Htg. & Air Cond., Inc.
(610) 399-1998
- John Musser**
Energy Concepts, Inc.
(215) 245-3200
- Dave Jackson**
Engel Air Conditioning & Heating
(215) 364-3522
- James Moser**
Ervin-Moser Service, Inc.
(610) 430-0606
- Tom Raulinavich**
Farm & Home Energy
(215) 943-0772
- Gene Babichenko**
G & B Comfort Design
(267) 334-7474
- Dave Matonti**
Gallelli Mechanical
(215) 752-3106
- Joseph Giannone, Jr.**
Joseph Giannone Htg. & A/C
(215) 389-3600
- Larry Good, II**
Good Air Conditioning & Htg.
(215) 757-7505
- Michael J. Hoke**
H & H Htg. & Air Conditioning
(610) 532-8744
- Charles Bateman**
J. Halligan & Sons, Inc.
(610) 449-9001
- Thomas Gillaspay**
Hannabery HVAC
(800) 544-4328
- David M. Harris**
Harris Comfort
(215) 788-4596
- John H. Cameron Jr.**
Horizon Services, Inc.
(610) 644-1025
- John DeLiberati**
J & B Comfort Systems, Inc.
(610) 738-9260
- Bill Landis**
J. K. Mechanical, Inc.
(717) 464-0111
- Aaron Kanze**
Marvin E. Kanze, Inc.
(610) 449-9677
- Ray Litwin**
Ray Litwin's HVAC
(215) 945-1598
- Scott Martin**
Scott A. Martin Services, Inc.
(610) 933-4484
- Bill McLoughlin**
McLoughlin Plmb. & Htg. Co., Inc.
(610) 449-2704
- Michael J. McShea**
M. J. McShea Mechanical, Inc.
(215) 674-9995
- Paul Traviline**
Meade Appliance Service, Inc.
(610) 458-8706
- Joseph Michalski**
J. R. Michalski Heating & A/C, Inc.
(215) 752-1442
- Marco Giancroce**
Morvent's One Hour A/C & Heating
(610) 444-3333
- Paul Mourar**
Mourar's Heating & Cooling, Inc.
(610) 933-5845
- John Haley, III**
Moyer Indoor/Outdoor
(215) 799-2000
- Darren Zychal**
National Air, Inc.
(215) 676-2489
- Larry Rosenthal**
Nu-Temp Associates
(215) 702-3970
- Russ deFuria**
O'Brien Heating & Air Conditioning
(610) 626-2540
- Bernie Sweeney**
Oliver Heating & Cooling
(800) 522-4884
- James L. Pompetti**
Pompetti's Heating & A/C, Inc.
(610) 565-4778
- Mike Stipa**
Precision Air Heating & Cooling
(610) 918-9344
- Rob Martin**
Prestige Heating & Cooling, Inc.
(215) 297-0811
- Martin Drumheller**
R & D Construction Co. Htg., & A/C
(610) 444-6421
- Ray Shadle**
Ray's HVAC Service Corporation
(215) 493-3012
- Rich Crivaro**
RC Heating & Air Conditioning
(856) 751-1475
- Robert L. Wehrmann, Jr.**
Region Service Co., Inc.
(215) 639-0424
- Craig D. Reynolds**
Craig D. Reynolds Plumbing & Htg., Inc.
(610) 380-8984
- Edward Riley**
Riley Mechanical Contrs., Inc.
(215) 357-2222
- Patrick Kane**
Rossi Mechanical/Hot Water Express
(215) 657-4577
- Edward Smith**
S & S Heating & Air Conditioning
(610) 637-0622
- Paul Pujol**
Saintco Mechanical
(610) 558-8167
- James P. Sankey, Jr.**
James Sankey & Associates, LLC
(215) 343-9500
- Mike Detwiler**
Scatton's Htg. & Cooling, Inc.
(215) 855-6144
- Curt Kredon**
Scott Air Conditioning Co., Inc.
(215) 364-8420
- Robert Taurino**
K. E. Seifert, Inc.
(215) 752-9080
- Al McDevitt**
Self Heating & Cooling, Inc.
(267) 803-4840
- Elyse Little**
ServiceMark
(610) 344-3545
- Bob Gress**
Signature HVAC, Inc.
(610) 738-8310
- William R. Sinton**
Sinton A/C & Heating, Inc.
(610) 444-6002
- Jeffrey A. Smith**
J. A. Smith Heating, & Air Conditioning
(215) 956-9400
- David Smith**
W. F. Smith, Inc.
(215) 624-1313
- Steven Berman**
Stevens Heating & A/C, Inc.
(215) 332-5111
- Joe Zimmerman**
Summers & Zim's
(610) 593-5129
- Jeff Frantz**
Tru-Comfort, Inc.
(610) 691-1889
- Joseph Wallace**
Wallace Electric, Inc.
(610) 287-9838
- Joseph J. Walsh**
Walsh Brothers, Inc.
(610) 623-2789
- Chris Walton**
Clyde S. Walton, Inc.
(215) 855-6893

For additional information on the program, 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

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

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

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

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

Looking Ahead

Electrical Industry Trends and Forecasts

Annual Economic Symposium and Annual Meeting/Holiday Gathering will be held at The Electrical Association of Philadelphia on Tuesday, December 6, 2011. The symposium will begin at 4:00 p.m. and followed by a holiday reception. Our speaker is Michael Eby, Chief Editor, Electrical Construction & Maintenance Magazine.

Come join us for an afternoon that is sure to be informative as well as festive.

Welcome New Members!

Five New Members Join the EAP Ranks

Cooper Mechanical

Heating and Air Conditioning
Mr. Jeff Zeleny
7696 Easton Road
Ottsville, PA 18942
(610) 847-2441
(610) 847-2048 Fax
jeff@coopermech.com - Email
www.coopermech.com - Web
*Special thanks to **Jeff Maag** of HVAC Distributors and **Paul Tipton** of WaterFurnace for sponsoring Cooper Mechanical*

Creative Energy Distributors

Distributor
Mr. Scott Martin
150 Jalynd Drive
New Holland, PA 17557
(717) 354-6090
(717) 355-0438 Fax
Scott@cedgeo.com - Email
*Special thanks to **Bob Gress** of Signature Heating & Cooling and **Ed Smith** of S & S Heating & Air Conditioning for sponsoring Creative Energy Distributors*

Exelon Energy

Electric Generation Supplier
Mr. Michael Palumbo
300 Exelon Way
Kennet Square, PA 19348
(610) 765-6936
(610) 765-7936 - Fax
michael.palumbo@exeloncorp.com - Email
www.exelonenergy.com - Web
*Special thanks to **Fod Vick** of Philadelphia Lighting Maintenance and **Bob Makim** of Diversified Energy Associates for sponsoring Exelon Energy*

J & M Heating and Cooling

Heating and Air Conditioning
Mr. Phil Melito
3300 Highland Ave.
Drexel Hill, PA 19026
(610) 259-9788
philmelito@aol.com - Email
www.jmheatingandcooling.com - Web
*Special thanks to **Tom Morgan** of Pierce-Phelps, Inc. for sponsoring J & M Heating and Cooling*

Nu-Temp Associates

Heating and Air Conditioning
Mr. Larry Rosenthal
2560 W. Maple Ave.
Trevose, PA 19053
(215) 702-3970
(215) 702-3973 Fax
nutemp11@aol.com - Email
http://nutempheatingandcooling.com - Web
*Special thanks to **Phil Debes** of P & N Distribution and **Matt Sebrani** of Peirce-Phelps, Inc. for sponsoring Nu-Temp Associates*

Expo ATTENDEE Registration Form

(Or register online at www.electricexpo.org)

Register in advance by Wednesday, October 5, 2011, attend the Expo, and be eligible to win a cash prize of \$1,000! (Confirmations will be emailed* to attendees who have PRE-registered by Wednesday, October 5, 2011.) WALK INS WELCOME TOO!

REGISTER ME FOR FREE ADMISSION TO EXPO SHOW FLOOR:

Name: _____ Title: _____
(First) (Last)

Company: _____

Address: _____

City: _____ State: _____ Zip: _____

Email*: _____ Phone: _____ Fax: _____

*An email address is necessary to receive an email confirmation.

REGISTER ME FOR THE FOLLOWING SEMINAR(S):

Lunch and Learn pass allows for attendance at lunch and one seminar on ONE DAY.

Payment must accompany form. No refunds.

\$30 if pre-registered by Wednesday, October 5, 2011

\$40 after October 5, 2011 and onsite.

Wednesday, October 12, 2011

- PV Solar: Renewable Energy
- Hazard Recognition and Control
- NEC 2011 Update

Thursday, October 13, 2011

- Sustainable Building Case Studies
- Preventing Catastrophic Losses
- Solid State Lighting

CHOOSE ONE:

\$30 for One Pass (check one above) \$60 for Two Passes (check 2 above)

Payment Information: Check Enclosed - payable: The Electrical Association of Philadelphia

Credit Card Number: _____ CVV Code: _____

Name on Card: _____ Card Type: Visa MC Amex DC

Signature: _____

Register on-line www.electricexpo.org.
or submit your completed form to:

The Electrical Association of Philadelphia

527 Plymouth Road, Suite 408

Plymouth Meeting, PA 19462-1641

Phone: 610-825-1600

Fax: 610-825-1603

Email: electric@eap.org

Website: www.electricexpo.org

Stay Connected with the EAP!

2011 Calendar Highlights

September 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	

September

- 6 Labor Day – EAP Offices Closed
- 12 The EAP “All Industry Golf Outing”, Plymouth Country Club
- 13 Board of Governors Meeting, Noon at EAP offices
- 16 Transformers, EAP offices, 7:00 a.m. – 4:00 p.m
- 22 One & Two Family Dwellings, EAP offices, 7:00 a.m. – 4:00 p.m

October 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					

October

- 6 Grounding & Bonding, EAP offices, 7:00 a.m. – 4:00 p.m
- 12-13 Electric Expo, Valley Forge Convention Center, King of Prussia, PA

November 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			

November

- 3 Delaware County Section Meeting, Franklin Electric Company, IR/ Thermal Imaging, Lazaretto Ballroom
- 4 Electrical Blue Print Reading, EAP offices, 7:00 a.m. – 4:00 p.m.
- 10 Bucks-Montgomery County Section Meeting, Franklin Electric Company, Lutron Lighting Controls, Sandy Run Country Club
- 15 Education Foundation Meeting, Noon at EAP offices
- 18 Fire Alarms, EAP offices, 7:00 a.m. – 4:00 p.m.
- 24-25 Thanksgiving Holiday – EAP Offices Closed

December 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

December

- 6 Annual Economic Symposium & Holiday Gathering, Michael Eby, Electrical Trends and Forecasts, EAP Offices – 4:00 p.m.
- 23-26 Christmas Holiday – EAP Offices Closed

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.



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