

The
**Electrical
Board** of Missouri
and Illinois



Educational Seminars

There is no charge to attend the EXPO itself.
Fees are required to attend the seminars.

SPONSORED BY



- IAEI Code Conference
- Encouraging Safe Choice
- Grounding
- LEED
- Fire Stopping
- OSHA Inspection Process
- Arc Flash
- Generators
- Ameren's Service Manual
- Security Challenges
- Trends in Construction Projects



How fast can you go?

Electrical EXPO 2008

America's Center • St. Louis, MO

SHOW HOURS

Tuesday, March 18

2:00 p.m. – 8:00 p.m.

Wednesday, March 19

11:00 a.m. – 8:00 p.m.



Visit the Ameren-Ranken Learning Center
to see tutorials on software applications, products, and industry topics.

SEMINAR 1 Function Room 130
8:00 a.m. - 9:45 a.m.
LU/PDH: 1.75 PEU: .75

AMEREN'S "SERVICE MANUAL" Modifications and Enhancements

Speakers: Bart Angeli, Ron Hefley, Dan Urbaniak, and Jim West, Ameren

The panel will present modifications and enhancements to a "consolidated" Ameren service manual. The focus will be on sections impacting customer interface and metering requirement; metering equipment and modifications to processes within Ameren.

Here's what participants will learn:

- Standard service voltages for new construction
- Customer requirements for electric service
- Modifications to metering requirements
- Approved metering equipment
- Contact points within Ameren

Target Audience: Electrical contractors, Design Engineers, and Electrical Suppliers

SEMINAR 2 Function Room 123
8:15 a.m. - 9:45 a.m.
LU/PDH: 1.5 PEU: .75

ENCOURAGING SAFE CHOICE

Speaker: Bill Dampf C.S.P.
"Let's Talk Success" Presentations

What choices will your workers make today? Will they choose the safe way of performing a job or will they place themselves at risk. The focus is on how to build within our workers the essential value that guides them towards safety. Bill travels across the country giving safety presentations.

Here's what the participants will learn:

- To better understand what drives us to make the choices we make
- To explore the value of values
- To maintain a high standard of safety performance
- To encourage workers to get involved to make a difference
- To emphasize the importance of "Safety Champions"

SEMINAR 3 Function Room 130
10:15 a.m. - 12:15 p.m.
LU/PDH: 2 PEU: 1

GROUNDING OF ELECTRICAL SYSTEMS

Speaker: Keith Cooper
McClure Engineering Associates

Grounding connections have been made over the last 78 years that are not in accordance with Code but have been tolerated because the loads were not sophisticated. The proliferation of microprocessors, computers and other electronics which have a low tolerance for poor grounding is forcing us to install the grounding systems properly. We will develop schematic connection diagrams for the grounding electrode conductor, the main bonding jumper and the equipment grounding conductors.

Here's what participants will learn:

- Understand how the system is grounded at the service entrance and at the separately derived system.
- Understand how the equipment is grounded at the service entrance, the separately derived systems and on the line side of the main services.
- Examine reasons for single point grounding.
- Identify need for proper grounding.
- Examine the grounding peculiarities of emergency generator systems.
- Review the TIA/EIA Standard for Commercial Grounding and Bonding Requirements for Telecommunications.

Target Audience: Contractors, plant maintenance, electricians, design engineers and inspectors

SEMINAR 4 Function Room 123
12:30 p.m. - 2:00 p.m.
LU/PDH: 1.5 PEU: .75

OVERVIEW OF OSHA INSPECTION PROCESS

Speaker: Julie O'Keefe
Armstrong Teasdale, LLP

The OSH Act applies to all employers with one or more employees engaged in business affecting commerce in the US and its territories. This presentation will focus on "What should you know and do when OSHA arrives at your job site or facility". What are your rights?

Participants will learn:

- How to prepare your company with pre-inspection routines (tests and policies)
- What are your rights during the inspection process? Is it an OSHA Directive or employee complaint?
- Citations with penalties. Is it beneficial to appeal or contest the citation?
- Whether to attend an informal settlement conference
- Problems that result in citations against the company
- Defenses to OSHA citations

SEMINAR 5 Function Room 130
2:30 p.m. - 4:30 p.m.
LU/PDH: 2 PEU: 1

FIRE STOPPING

All you ever needed to know about fire stopping but were afraid to ask

Speaker: Dan Flynn, DRI, HCC
Firestoppers

An in-depth presentation on the fire stopping requirements of the newly adopted codes, including the installation and inspection of UL listed systems, destructive testing requirements and the maintenance of fire stopping during the life of the building.

Here's what participants will learn:

- Selection of UL Systems
- Code requirements for fire stopping
- Electrical exceptions to requirements
- New requirements for inspection of installations
- Common mistakes made in the field

Target Audience: Contractors, inspectors, design professionals, and facility managers

SEMINAR 6 Function Room 123
3:00 p.m. - 4:30 p.m.
PDH: 1.5 PEU: .75

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PEU CREDITS

These seminars have been designed to qualify for Professional Education Units (PEU) for Jefferson County.

REGISTER

A registration form was inserted or you can REGISTER ONLINE



SEMINAR 7 Function Room 130
5:00 p.m. - 6:30 p.m.
LU/PDH: 1.5 PEU: .75

ARC FLASH HAZARD OVERVIEW

Speaker: D. Edwin Scherry, P.E.
Scherry Engineering

Arc Flash is a serious workplace hazard. This hazard will be discussed and the codes and standards that primarily address this hazard. Edwin will review means to evaluate the intensity of the hazard and discuss mitigation techniques as well as PPE to reduce and provide protection of personnel from the hazard.

Participants will learn:

- What is an Arc Flash? What are its by-products?
- Why Now? Codes and standards that address arc flash assessment: NEC, OSHA, NFPA, and IEEE.
- How does it affect me? Affect on daily work activities. De-energize!!!
- What do I need to know? Compare limitations of arc flash evaluation techniques.
- What mitigation? Personnel Protective Equipment (PPE) and protective device adjustments that can assist in reducing the arc flash hazard.

Target Audience: Anyone involved with electrical power distribution at all voltages: engineers, electricians, contractors interfacing with electrical power (electrical and mechanical), electrical inspectors, electrical equipment representatives and manufacturers.

SEMINAR 8 Function Room 123
5:00 p.m. - 6:30 p.m.
LU/PDH: 1.5 PEU: .75

BRINGING SECURITY CLOSER TO THE EDGE:

Security for Today's Designer and Contractor, Meeting Tomorrow's Security Challenges.

Speaker: Jim Gompers
Gompers, Inc.

As electronic security devices are connected to IP networks, the security solution and designs require several skill sets to effectively develop a modern security plan. This session will cover basic IP security design considerations, IP security devices requirements on the network infrastructure as well as bandwidth needs. We will discuss IP video surveillance and traditional analog surveillance and which serves as the best solution. IP security and access control will be covered as well. This will help you determine how to take advantage of the opportunities that exist in physical security design and contracting.

Target Audience: This is a must for any industry professional engaged in the security market.

SEMINAR CODE Function Room 130
1st Session: 8:30 a.m. - 11:30 a.m.
LUNCH AND VIEW EXPO EXHIBITS
2nd Session: 2:00 p.m. - 5:00 p.m.

LU/PDH: 6
CEU: .6
PEU: 3

(You MUST attend **BOTH SESSIONS (all 6 hours)** to receive certificate. Certificates will be mailed about a month or so after the seminar to all those attending the full 6 hours. You must make sure that your badge is scanned before class, after break or whenever scans are required. Certificates will not be given unless your badge is scanned, showing you attended the full 6 hours.) **Please note that you must pay the Code conference fee, which is SEPARATE from a one or two-day pass as these passes DO NOT INCLUDE this session!!!)**

NATIONAL ELECTRICAL CODE CONFERENCE 2008 Code Changes

Speaker: Michael Johnston, Director of Education, IAEI (Richardson, TX)
Q & A Panel: Mike Burgess, Jefferson County Inspection
Dennis St. Clair, St. Louis County Inspection
John Stacey, St. Louis City Inspection

The International Association of Electrical Inspectors-St. Louis Chapter Conference will include a narrated presentation of the 2008 National Electrical Code changes. This presentation will provide illustrations and explanations of changes in the National Electrical Code.

This Code Conference will fulfill the City of St. Louis' license requirement for continuing education provided the licensee attends the full six hours of the Conference. You have to attend BOTH sessions!

The fee for the Code Conference is \$150 with registrations made before March 1st and \$200 for registrations made after the March 1st deadline. This fee includes LUNCH and the book "Analysis of Changes, 2008 NEC" which each registrant will receive and can be picked up the morning of the conference. This analysis book covers almost 400 changes made in the 2008 NEC.

Here's what the participants will learn:

- Help you develop a better understanding of changes in the National Electrical Code.
- Broaden your knowledge of the N.E.C.
- Allow you to communicate with local authorities more effectively.

Target Audience: Contractors, electricians, engineers

SEMINAR 9 Function Room 123
9:00 a.m. - 11:00 a.m.
LU/PDH: 2 PEU: 1

GENERATORS

Speakers: PANEL consisting of Generator Manufacturers and Ameren

AmerenUE and various generator manufacturer representatives will discuss the latest in technology trends and advancements. AmerenUE representatives will also review the proper interface between the utility and the customer owned generator. Major aspects of generator design and specifications will be reviewed. Each representative will have time allotted to discuss a number of the issues faced by design professionals and installing contractors. Some of the major items to be reviewed are as follows:

- Utility interconnect requirements and guidelines
- Government mandated emission tier standards
- Delivery lead times for various sized units
- Control panel advancements and latest capabilities
- Review of "Standby-Prime -Continuous" ratings
- Proper load bank testing and sound attenuation design
- Factory fabricated vs. special rated outdoor enclosures.

SEMINAR 10 Function Room 260
9:00 a.m. - 11:00 a.m.
LU/PDH: 2 PEU: 1

RISKS/REWARD-"TRENDS IN CONSTRUCTION PROJECTS"

Panelists: Owner, general contractor, electrical contractor, distributor, manufacturer, commodity analyst

The buzz of the construction industry is the escalating project cost of materials and its impact on your bottom line and the project. Hear our panel discuss:

- Innovative strategies for success.
- Material cost escalations and the impact on industry segments
- Factors contributing to commodity prices and the market.
- What requirements may be essential in future contracts to ensure that financial risks or gains are shared by everyone?

PDH & LU CREDITS

These seminars have been designed to qualify for Professional Development Hours (PDH) for Professional Engineers and Learning Units (LU) for Architects.

ONLINE

Get into this brochure If the form is missing, call the EBMI Office at 636-305-6434
at www.electricalboard.org

SEMINAR 11 Function Room 123
11:30 a.m. - 1:00 p.m.
LU/PDH: 1.5 PEU: .75

USGBC LEED *Challenge for the Electrical Industry*

Speaker: Steve Andert P.E.
Wm. Tao & Associates

USGBC and the LEED certification program are transforming the market place. Steve will provide a comprehensive overview of the goals and structure of the LEED sustainable building rating system and it's impact on the electrical industries' processes, system design and equipment selections.

Participants will learn

- What is sustainability and why is it so popular
- Basic LEED Terminology
- LEED rating structure
- LEED impact on the design and selection of electrical system.
- Lessons learned from the design and certification of Missouri's first LEED Certified, LEED Silver, and LEED Gold Buildings.

Target Audience: Architects, engineers, contractors, lighting designers, electrical distribution

SEMINAR 12 Function Room 123
2:00 p.m. - 3:00 p.m.
LU/PDH: 1 PEU: .5

USING NEW LIGHTING TECHNOLOGIES TO GAIN TAX INCENTIVES AND ENERGY SAVINGS

Speaker: Warren Byrd
GE Consumer & Industrial/Lighting

We will discuss the energy policy act, EPACT, and how end users, contractors, or engineers can gain tax incentives by upgrading lighting to more energy efficient systems. We will show how end-users can save energy dollars by changing out the old technologies to new and how that will impact the bottom line.

Participants will learn:

- EPACT: What is it and how do I qualify?
- EPACT: Who receives the tax deduction?
- EPACT: How do I submit my paperwork to the IRS?
- How much in energy dollars is saved by upgrading?
- Benefits of new efficient lighting systems

Target Audience: All end-users, design engineers, contractors, and plant engineers

SEMINAR 13 Function Room 123
5:00 p.m. - 6:30 p.m.
LU/PDH: 1.5 PEU: .75

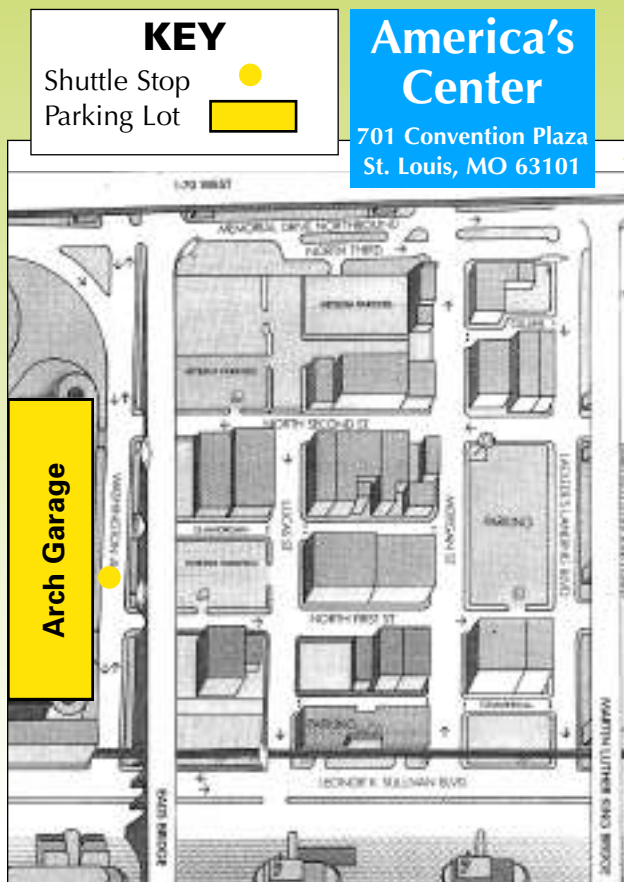
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FREE SHUTTLE SERVICE from the Arch Garage



FREE Shuttle Service from the Arch parking garage.

This service will be available Tuesday, March 18 from 7:00 a.m. to 8:30 p.m. and Wednesday, March 19 from 7:00 a.m. to 8:30 p.m.

FREE PARKING!

FREE PARKING

at the Arch Garage to the first 2008 individuals who pre-register by March 1st. EBMI will send a special coupon to individuals qualifying for free parking.

Register Online

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