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Vol. 114 No. 6

June 19, 2023

ANALYSIS OF CHANGES, 2023 NEC CODE CONFERENCE August 24th

at St. Charles Convention Center

This Code Conference will fulfill the 8 hour-code <u>City of St. Louis' and Jefferson County</u> license requirement for continuing education provided <u>THE LICENSEE</u> attends the full eight hours of the Conference. You MUST attend BOTH sessions AND make sure your badge is scanned each time!

Please register on-line at www.electricalboard.org.

Look for the <u>attendee registration link</u> to start your registration. Once you are registered, you will be emailed a confirmation letter with a QR Code. Bring this QR code (printed or digital) to the registration area to scan QR code and get your badge. You will also receive a ticket for the Analysis Book and ticket enter seminar for the afternoon session. <u>WE WILL NOT TAKE REGISTRATIONS OVER THE PHONE!</u>

7:20 a.m. – IAEI Eastern Missouri Chapter Mtg. 7:30 – 11:30 a.m. (1ST SESSION) 2:00 – 6:00 p.m. (2ND SESSION) Attendees must attend BOTH sessions to receive certificate.

PDH: 8 and Jefferson County/City of St. Louis: 8- Code related

Speaker: Thomas Domitrovich, IAEI

O & A Panel:

Rick Hill, St. Louis County Inspection Brian DeCarlo, St. Louis City Inspection

This presentation reviews and analyzes key changes to the 2023 National Electrical Code by highlighting and explaining revisions to residential, commercial and industrial design and installation requirements. This seminar helps professionals learn the significant changes on topics such as conductors, grounding, surge protection and outdoor emergency disconnects for dwelling units.

The fee for the Code Conference is \$275 with registrations made before 8-1-23 and \$335 for registrations made after the 8-1-23 deadline. This fee includes <u>LUNCH</u> and the book "Analysis of Changes, 2023 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 2023 NEC. <u>A PHOTO ID</u> IS REQUIRED TO RECEIVE THE ANALYSIS BOOK AT INSPECTORS TABLE.

The revised 2023 Analysis now concisely answers three critical questions:

- What is the Change?
- Why was it made?
- How the change impacts the electrical industry?

SEE ENTIRE LIST OF SEMINARS ON OUR WEBSITE



LET'S TALK...

Bill Regan

The Electrical Expo is just over 60 days away. It will be here before you know it. NOW is the time to register for the Expo and/or the 20 seminars if you have not done so.

When you go to our website to register, there are two options — an attendee on the left or an exhibitor on the right. Those with a booth in the show are exhibitors, everyone else is an attendee.

EVERYONE HAS TO SIGN UP ON-LINE AT

www.electricalboard.org.

Once you register and are confirmed, you will receive an emailed confirmation letter. Look for the QR code in this confirmation (you may need to download pictures to see it), bring this QR code (digital or printed) to the registration area to scan and print your badge. This process will be much faster if you are registered before August 22nd. You either register ahead of August 22nd or you stand in line to complete the same information.

Register before August 1st and attend the Expo to be eligible for drawing of 48 - \$50 gift cards.

The website also provides an Exhibitor list with booth #s, seminar details, seminar speaker bios, Floor layout of booths, and hotel information (register by July 12th at the Embassy or Ameristar).

Room availability is limited and filling up fast, so don't delay!

Our 24-page Pre-Show brochure is available for distribution to your associates and customers. This brochure includes a list of exhibitors, schedule of Expo events, seminar information, new products thus far and advertising from member companies that help us pay for the brochure. We certainly thank all our advertisers in the Pre-Show brochure.

We are sold out of booth space, seminars are starting to fill up and I know exhibitors are anxiously awaiting to show their products to attendees.

WE ARE ASKING ALL MEMBERS TO HELP US PROMOTE ATTENDANCE AT THE EXPO.

CALENDAR OF EVENTS

See calendar on www.electricalboard.org

AUGUST 23-24

SAVE THE DATE ELECTRICAL EXPO

August 23-24, <u>2023</u>
At St. Charles Convention Center

Sept. 18 GOLFfest

At Crescent Farms Golf Course

NOV. 30 CHRISTMAS MIXER

at St. Charles Convention Center

Call EBMI at 636-305-6434 for more information or to gain more information on any of our events or visit our website at www.electricalboard.org. You can also send an email to annie@electricalboard.org or bill@electricalboard.org.

CONNECT-4-SUCCESS

WANT TO SERVE AS AN ADVOCATE?

For the past several years, C4S has been working with Ritenour High School to allow some seniors to go to school in the morning and work at one of our partner companies. This program will continue for 2023-24 school year.

But this past year, we started the **Ritenour Advocacy Program (RAP)** which is an advocacy program with several C4S Board members and Ritenour students. We learned a lot during this first try at mentoring and have decided to expand the number of advocates participating in this program.

Before you say YES, and we hope you do, we need to send you the criteria for being a mentor. You must obtain a fingerprint background check, a volunteer registration with the state of Missouri, complete Ritenour Volunteer application and attend a 1-hour training session with Ritenour personnel. We use in-person and zoom meetings (about 30 minutes) during the morning hours (not sure of the time period just yet) and everyone must have a gmail account. Must attend 2 in-person meetings at Ritenour as aweel as 4-5 meetings with student (either zoom or in-person).

There is a fee to participate of about \$55 for background checks. IF you are still interested, please email annie@electricalboard.org prior to July 10th and she will send our RAP flyer to you. It is a very rewarding experience, but there is a considerable time commitment.

ELECTRICAL EXPO SEMINARS 1-10

11-19 will be printed in the July FLASH
But you can see all 20 seminars on our website –
www.electricalboard.org and click on seminar brochure
or email bill@electricalboard.org to receive seminar
brochure.

Seminar Fees for Seminars 1-19 before August 1st ...

1-Day pass – Wed or Thurs. - **\$110** (\$170 after 8-1)

2-day pass - Wed. & Thurs. - \$160 (\$220 After 8-1)

Seminar fee for the Code Conference on Thurs – 8-24 **\$275** (\$335 after 8-1)

Must attend both sessions – see front page of FLASH For more details



Room ABC 7:30 - 9:30 a.m.

PDH: 2 JC and City Code: 2
Grounding of Electrical Systems

GROUNDING OF ELECTRICAL SYSTEMS

Speakers: Phil Wentz – McClure Engineering Associates
National Electrical Code, Article 250 – Grounding and Bonding continues to be cited as the most confusing or difficult to understand article in the Code. He will review the purposes for and the basic tenets of grounding and bonding. Then he will examine various topics that have raised the most questions and confusion.

Participants will:

- Understand why electrical systems are grounded.
- Understand how electrical systems are grounded at the service entrance and at the separately derived system.
- Understand how equipment is grounded (or bonded).
- Examine questions that arise
- Review 2023 NEC changes to Article 250.



Room D

8:00 - 9:30 a.m.

PDH: 1.5 JC-Elective: 1.5

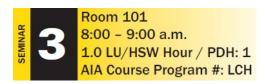
IMPACT OF LARGE SCALE EV CHARGING ON ELECTRIC DISTRIBUTION SYSTEMS AND AMEREN MISSOURI TIME OF USE RATES EXPLAINED

Speakers: Jim Huss and Steve Wills – Ameren Missouri The Impact of Large Scale EV Charging on the Ameren Distribution System

Jim will discuss this impact from a home or business up through the distribution system. Auto manufacturers project that 52% of new car sales will be all electric by 2030. How is Ameren accounting for this potential load growth in new connections today?

Ameren Missouri Time of Use Rates Explained

Steve will discuss how these rates will benefit customers, especially those considering electric vehicles. How will an EV impact your electric bill, and how will time of use help your residential or small commercial bill? Target Audience: Developers, business owners, facility managers, engineers, EV owners, EV retailers and electrical contractors



LIGHTING AND CONTROLS FOR THE HEALTHCARE ENVIRONMENTS

Speaker: Michelle Prew – Cooper Lighting Solutions

Effective lighting in healthcare environments can, and does, contribute to improved patient outcomes, as well as improved facility safety. Lighting solutions for healthcare facilities must maximize energy efficiency, occupy less space, be flexible and adaptable to different environments, meet life safety requirements, and meet the needs of medical staff, patients and visitors. This seminar discusses current lighting trends, energy management and smart hospital requirements, and current legislation affecting lighting design considerations for healthcare facilities.



DESIGNING A DAYLIGHT SYSTEM – FINDING THE RIGHT SHADING SOLUTION

Speaker: Scott Hussar - Lutron Electronics Co., Inc.

This presentation discusses the opportunities and obstacles presented by daylight, and how the use of automated dynamic fenestration systems and using the appropriate fabrics can help designers meet the goals of their project by placing the right fabric in the right place at the right time.



ELECTRIFICATION (1ST SEGMENT)

Speakers: Dan Bowermaster – EPRI Barry Frazier – Ameren Illinois Becky Whitman – Ameren Missouri

State of the Electric Vehicle Market — Customer Solutions Plus Industry Successes and Challenges for Today and the Future Dan will outline the electric vehicles coming to market, benefits, user experience thus far, charging requirements, and what it means for residential customers, fleets, electric utilities, and society in general. Participants will:

- Learn the state of the EV market.
- Learn what's coming.
- Learn successes.
- Learn challenges and lessons learned.
- Learn what work is going on to address current and future challenges.

Future Trends on EVs and Charging in the Ameren Territory
Barry and Becky will explain the current number and types of EVs and
Chargers operating in Illinois and Missouri (and within the Ameren service
territory) along with adoption trends and future projections.
Participants will learn:

- Status of on road EVs in the State of Illinois and Missouri and within Ameren service territory.
- Status of charging facilities in the State of Illinois and Missouri and within the Ameren service territory.
- Growth projections for Illinois and Missouri EVs and charging facilities.
- Illinois and Missouri impact from the National Electric Vehicle Infrastructure Program (NEVI).
- Illinois impact from VW funding and Clean School Bus Program.
 Target Audience: Residential, fleet, commercial, government, contractors, non-profit and general interest

VFD APPLICATIONS, BENEFITS, DETRIMENTS, AND INSTALLATION BEST PRACTICES

Speaker: Charles Hummer – Agilix Solutions

VFDs (variable frequency drives) have become prevalent across many industries for precise motor speed and torque control. Understanding how VFDs work and how best to apply them are critical for optimizing processes and improving overall productivity for you or your customer's facility. This presentation will give a high-level overview of how VFDs operate, their benefits and determinants, best applications for their use and best practices for proper installation for long-term success.

Participants will learn:

- Basic understanding how VFDs work.
- How VFDs can improve processes when replacing other motor control technology.
- Best applications to utilize VFD technology.
- The problems that can occur when utilizing VFD technology.
- Installation best practices to ensure proper operation an protection of VFDs and the motor the control.

Target Audience: Specification engineers, maintenance staff, project managers and automation technicians in all industries that utilize motors for production processes

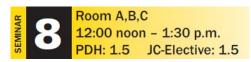
Industry segments of particular interest: Food/beverage; pharmaceutical, mining/metals, energy, household & petcare, automotive, chemicals/plastics, oil & gas and HVAC

Room 101 11:00 a.m. - 12:00 noon AB2307 1 AIA LU HSW PDH: 1

EMERGENCY LIGHTING CODES AND STANDARDS

Speaker: Anita Majumdar - Acuity Brands

Emergency Lighting Codes and Standards prescribing the performance requirements for illuminating the path of egress have existed for many years without change... until recently. We will revisit the requirements for life safety illumination that have been around for a long time, as well as discuss the implications of newly adopted language and technologies and how we address these changes to maintain and enhance public safety.



ELECTRIFICATION (2ND SEGMENT)

Speakers: Sacoyya Davis – Ameren Missouri Kenneth Kresyman – Ameren Missouri Bill Reany – Ameren Illinois John Maue – Ameren Missouri Jeff Brinker – Ameren Missouri

Drive Savings and Sustainability

Sacoyya and Kenneth will provide an overview of EV Charging incentive program and other EV related resources to help customers on their EV journey. Topics also include Fleet Electrification and EV Dealer Partnership. This seminar will include:

- An overview of EV Charge Ahead Incentive Program for Business Customers
- An overview of fleet electrification and planning process
- How Ameren Missouri is working with auto dealerships to navigate their charging installation projects and partnering to bring more EVs on the road in Missouri

Ameren Illinois Electric Transportation Programs

Bill will provide an overview of existing programs and incentives supporting the adoption of EVs, by customer type, in Illinois.

This seminar will discuss:

- Residential charging programs.
- Multifamily charging programs.
- Charging programs for educational and public transit facilities.

- Public charging programs.
- Programs assisting communities with charging strategies.

Transition from Combustion to Electric in the Off-road World John will compare and contrast combustibles to electric. Why is industry trending toward electrification? Do you have the necessary electrical infrastructure? What does a typical ROI look like and the debunking of false claims. Should I lease or purchase?

What the participants will learn:

- Three things that make electric the right choice.
- The most important choice isn't the lift truck.
- Should I lease or purchase?
- Understanding the typical load profile.
- How can you get a demo experience?

Electrifying and De-Carbonizing Cooking

Jeff will discuss the direction of foodservice industry and trends that make electric power the clear choice in the commercial kitchen.

Participants will learn:

- Why some chefs believe that gas is better and why it isn't.
- Why dining trends are leading us toward re-thermalization vs. actual cooking and why electric is better.
- The equipment that "fast casual" restaurants use to feed you.
- How electric cooking eliminates building infrastructure.
- How electric cooking equipment can help solve the kitchen labor shortage.
 Target Audience: Residential, fleet, commercial, government, contractors, non-profit and general interest



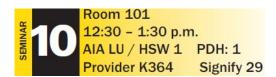
SOLAR OPPORTUNITIES FOR YOUR COMMERCIAL FACILITY

Speaker: Craig Pals – Tick Tock Energy, Inc.

Solar is HOT! More commercial facility owners and managers are investing in solar more than ever as a strategy for reducing electricity costs and tapping lucrative incentives. This presentation will review how to assess if solar is right for you, understand possible mounting options, available incentives in Illinois and Missouri markets and illustrate project financial examples as well as financing considerations.

The participants will learn:

- Solar fundamentals and steps to assess if solar is right for you.
- Popular solar mounting options.
- Example cashflow / payback for commercial systems.



ENERGY CODES – A FACILITIES PERSPECTIVE

Speaker: Greg Quintero – Signify The participants will learn to:

- Recognize the key code requirements that apply to offices.
- Modify interior lighting design to comply with new code provisions.
- Identify new lighting technologies that facilitate code compliance.
- Communicate code terminology using every-day lighting and controls terms.
- Provide provisions of current energy codes with particular emphasis on controls requirements and tenant fit-out in office applications.



QR code takes you to our website to register

www.electricalboard.org

RECAP OF June 5th Sportsman's Holiday

The 84th Annual Sportsman's Holiday was held on Monday June 5th did not look good. Thankfully we had a very nice day for the 148 golfers and volunteers judging the contests on the course. Some enjoyed it more than others as the event recap will show. Overall, it was a good day for a golf outing for our members and guests. We thank Kurt Schulz and Ed Rhomberg, Chairs of the 2023 Sportsman's Holiday for helping us coordinate this event.

Special thanks to <u>FEDERATED INSURANCE</u> for donating tees, koozies and sunscreen for our golfers.

CONTEST RECAP FORMAT THIS YEAR

Shamble – 4-person best ball

Congratulations to the TEAM winners in our three flights.

Flight A – Bruce Erickson's team - 59 Flight B – Garret Dunn's Team - 66 Flight C – Lee Hopper's team – 70

PAR 3 CONTEST WINNERS

Dogwood Hole #2 – **Ryan Kurwicki** - 5' – 8" Dogwood Hole #5 – **Brendan Schwarz** – 3' - 6" Dogwood Hole #8 – **Mike Leonard** – 18" Hawthorn Hole #2 – **Alex Ciaramitaro** – 1' - 8" Hawthorn Hole #4 – **Matt Schnieders** – 4' - 9"

Each Par 3 winner received \$80 cash prize.

EBMI VETS CHARITY HOLE

Winner of the Foursome to Forest Park Hawthorn #9 – **Mike House** – 4' 1"

We raised \$640 for our EBMI Vets and their continuing efforts for the Veterans at VA Hospital. We thank our golfers for their participation at the VETS Charity Hole.

PUTTING CONTEST BENEFITTED CONNECT-4-SUCCESS.

This special event raised \$480 for their mission. There were 235 entries into the drawing. Joe Burns won the Putting Contest drawing for the foursome donated by Forest Park.

We thank FOREST Park Golf Course for providing the prizes of golf for four at Forest Park.

We also thank the following hole and attendance prize sponsors.



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Attendance Prizes provided by:

Aggreko, Ameren Illinois, Ameren Missouri, Archkey Solutions/Sachs Electric, Archway Electrical Sales/Eaton, AZCO, A Burns & McDonnell Co., BHMG Engineers, Birkel Electric, Butler Supply, Eaton Crouse-Hinds & B-Line Series, EDF Group, Frost Supply, Graybar Electric, Guarantee Electrical, Leviton, Metro Electric Supply, Milwaukee Tool, The Okonite Co., Power Grid Engineering, Priority Wire, S&C Electric, Schaeffer Marketing Group, Siemens Smart Infrastructure and Vector Sales.

We thank all of our wonderful volunteers who help the staff at the Sportsman's Holiday!

POSITION AVAILABLE

4223 - ELECTRICAL SALES REPRESENTATIVE

Location: Missouri, Kansas, Iowa, Nebraska

We are seeking an experienced Electrical Sales Representative to join our team and call on current, and new, customers in the states of NO, KS, IA and NE. The ideal candidate will have a proven track record of successful sales in the electrical industry, a deep understanding of electrical products and services, and excellent communication skills.

Full details at www.electricalboard.org . If you are interested in this opportunity and meet the qualifications, please submit your resume and cover letter to Mike Skovran at

mskovran@emspartnersinc.com. We look forward to hearing from you!

5123 - ESTIMATOR AND PROJECT MANAGER

Pyramid Electrical Contractors is seeking an estimator and project manager, each with a minimum five years experience for the St. Louis/Metro East area. A strong understanding of McCormick estimating software and commercial experience are preferred. Please send your resume to Mike Kemper at mkemper@pyramidelectrical.com.

6123 – ASSOCIATION PRESIDENT

The Electrical Board of Missouri and Illinois (EBMI) was founded in 1909 representing the many segments of the Electrical Industry. The staff consists of two full-time employees: President and Executive Assistant. Our mission is to provide programs and services that educate, communicate and connect our members, the community and our evolving industry.

EBMI is eager to identify a hands-on association executive who is prepared to build upon the current successes of the Association. The successful candidate will serve as EBMI President, overseeing the operations and activities of the Association. Reporting directly to the Board of Directors, this position administers and implements Board policy and maintains an effective staff and volunteer-base to assure attainment of the Association's goals. With a staff size of two, the President will be intimately involved in the day-to-day operations of the Association.

The ideal candidate for this position is a highly motivated, resultsdriven executive who exudes passion for our mission. Working in a small office, this is a very hands-on position requiring a candidate who is self-directed and willing to get the job done. Interested in applying?

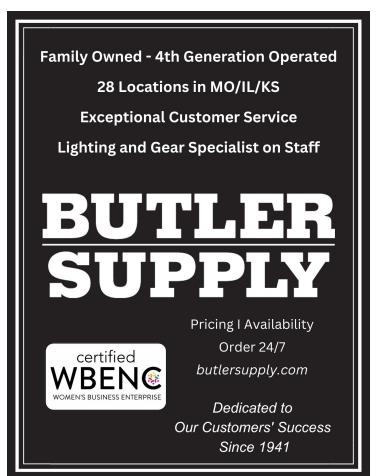
Please send your resume to resumes@electricalboard.org.

An Equal Opportunity Employer

POSITION WANTED

6A23- IT POSITION

Individual seeking a full-time position in Information Science and Technology where my education and skills will benefit the company and contribute to its long-term growth and success. Skills include SAP Analytics Cloud; SAS Viva; Eclipse; Java; Word, Excel and Powerpoint. Call EBMI for resume.







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Our 2023 Scholarship Recipients



FRONT ROW (LtoR)— Monica Kerkemeyer, Alyssa Geithman, Alyssa Rodgers, Abigail Lamb; BACK ROW (LtoR) - Abigail Meyer, Gabrielle Mattli, Grace Wilke, Avery Cummins; UNABLE TO ATTEND JUNE 14TH AWARDS PROGRAM: Claire Crook and Logan Ringstaff.

If you are a EBMI member and have son/daughter as senior in high school or in college, email annie@electricalboard.org to receive application for 2024 scholarship.

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