

October 2021
Volume 2, Issue 9

Electric League NewsLine

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SAVE THE DATE
ELECTRIC LEAGUE EXPO 2021

ELECTRIC LEAGUE EXPO 2021
NOVEMBER 11
Overland Park Convention Center

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State of the Economy: Here at Home and Nationally

*featuring Jordan Rappaport, Senior Economist,
Federal Reserve Bank of Kansas City*

Join Us:

November 18, 2021
2:00pm
Virtual Program



Jordan will provide a look at Covid-19 and the impact it has made on our economy, followed by a longer term perspective on the weak recovery of single-family home construction during the 2010s and the strong outlook for it as hybrid officing expands. This would also include predictions that larger metropolitan areas are likely to benefit most, possibly increasing electricity demand there.

Jordan Rappaport is a senior economist at the Federal Reserve Bank of Kansas City. He joined the Bank in 1999 following completing his Ph.D. in economics at Harvard University. Jordan also holds a bachelors' degree from Brown University, from which he graduated in 1990. Jordan's research focuses on issues related to local growth. His articles for the Bank's Economic Review primarily focus on U.S. metropolitan area growth and on housing. His empirical research published in peer-reviewed journals has documented the persistence and causes of long run local population growth. His published theoretical research shows that even small costs associated with moving are sufficient to cause high persistence in net population flows and that small productivity and amenity differences can cause very large differences in local population density. Jordan is an associate editor of Regional Science and Urban Economics and the Journal of Regional Science."

~ SAVE the DATE . . . A MUST ATTEND ~

Education Opportunities at the Expo - Registration Open!




REGISTER ONLINE:

www.ElectricLeague.org/Expo

NOVEMBER 11, 2021

AT A GLANCE . . . Pick & Choose Your Class(es)

BALLROOM – A1 ➡

BALLROOM – A1		BALLROOM – A2	
8:00am - 9:00am	UPS 101 <i>Robert Strong, Critical Facilities Technology</i> 1 PDH	8:00am - 10:00am	Welcome to Evergy: 2021 Service Standards Update <i>Hayden Maples, Evergy</i> .2 CEU
9:30am - 10:30am	Lithium Ion Battery Technology and Understanding Codes & Standards in Today's Data Centers <i>Steven Boyles, APC</i> 1 PDH	10:30am - 11:30am	Lighting Control 101 <i>Dan Oliva, Gibbens Drake Scott</i> 1 PDH
11:00am - 12:00pm	Smart Buildings: Harnessing Digital Technology <i>Jeff Taylor, Schneider Electric/Square D</i> 1 PDH	12:00pm - 1:00pm	LED Dimming Controls: Basic to High Level Solutions <i>Matt Seelman, Convergence</i> 1 PDH
12:30pm - 1:30pm	Surge Protective Devices <i>Mark Cowart, P3</i> 1 PDH	1:30pm - 3:30pm	1 & 2 Family Dwelling (NEC Requirements) <i>Matt Goff and Phil Burke, International Electrical Inspectors</i> .2 CEU
2:00pm - 3:00pm	Considerations for Generator Set Selection <i>Earnest Glaser, Cummins Sales & Service</i> 1 PDH	 An Attendee from Each Session will WIN \$50 CASH!	
3:30pm - 4:30pm	Automatic Transfer Switches: Design & Application <i>Daniel Barrios, ASCO</i> 1 PDH		

UPS 101

Robert Strong, Critical Facilities Technology

We will begin with an overview and history of UPS topologies and technology. Discuss UPS application considerations and sizing requirements for designing new systems; Answering the question of "How much UPS do I need?" Includes learning about battery selection and Run Time. How to calculate the minimum needed. Learn about loading, cooling requirements, and replacing existing UPS. We'll review code compliance considerations.



8:00am – 9:00am \$10 / 1 PDH

Lithium Ion Battery Technology and Understanding Codes & Standards in Today's Data Center

Steven Boyles, APC

Lithium Ion batteries are the newest and most intriguing offer for battery systems on UPS in the market today. Offering unmatched performance and resiliency, a life expectancy rivaling flooded wet cells, lithium is an exciting technology. At the end of the presentation, the user will understand performance, footprint, and operational characteristics that make this an exciting and safe alternative to more traditional styles of batteries. Recent Codes and Standards have placed what seem like severe limitations on lithium battery quantities in the data center. This presentation focuses on those standards, taking the confusion out of the language and the listings, and demonstrates solutions that overcome those restrictions placed by the recent standards adoption. At the end of this presentation, the user will understand with much greater clarity the codes and standards in the market affecting lithium batteries.



9:30am – 10:30am \$10 / 1 PDH

Smart Buildings: Harnessing Digital Technology

Jeff Taylor, Schneider Electric - Square D

In today's electrical distribution system, more and more components have a digital interface. In this class, we will explore how to COLLECT data at every level. ANALYZE data converting it into meaningful analytics. Enable you to TAKE ACTION through real-time information and business logic. All with a value proposition around safety, reliability, efficiency, sustainability, and connectivity for our customers.



11:00am – 12:00pm \$10 / 1 PDH

Surge Protective Devices

Mark Cowart, P3

The National Electric Code continues to evolve towards electrical safety and people protection. There are now a variety of code references to surge protection requirements that are often overlooked in new and existing facility designs and upgrades. As more automation and technology is pushed into the production area, the need for surge protection devices continues to increase. This class will explain the need for surge suppression as it relates to electrical safety and the NEC code. You will learn HOW to apply surge protection, WHEN to apply Surge Protection, and WHERE to apply surge protection devices throughout your electrical system for facility and equipment protection as well as meeting current code requirements.



12:30pm – 1:30pm \$10 / 1 PDH

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BALLROOM A2 ➡

Considerations for Generator Set Selection

Earnest Glaser, Cummins Sales & Service (Central Region)

This presentation's focus is an introduction into selecting generators, load attributes, and what goes into sizing generators. Many people don't realize the complexity of sizing generators. The presentation looks at both linear types of loads (induction motor, compressors pumps, etc.) and non-linear types of load (VFDs, UPSs, LED Lighting, etc.).



2:00pm – 3:00pm \$10 / 1 PDH

Automatic Transfer Switches: Design & Application

Daniel Barrios, ASCO

In this class, we will discuss ATS Construction – How does it work, What are the Transition modes: Open, Closed, Delayed and Soft Load – When to Specify, Withstand and Close ON Rating, and National Electrical Code updates.



3:30pm – 4:30pm \$10 / 1 PDH

Welcome To Evergy: 2021 Service Standards

Hayden Maples, Evergy

Evergy is the result of a merger between Kansas City Power & Light and Westar Energy. One of the tasks associated with that merger was consolidating to a single Electric Service Standards book. This class will review the process for that combination, some of the key decision points, and how the document has evolved since the initial release. The discussion will also cover the highlights of the entire book to help everyone feel more comfortable with the direction of the combined company and standards.



8:00am – 10:00am \$20 / .2 CEU

Lighting Controls: Basics from A-Z

Dan Oliva, Gibbens Drake Scott

The class will be an overview of many of the significant lighting controls topics that are affecting the electrical industry. The discussion will include a basic overview of code requirements, definitions, system components, cost reduction strategies, BMS integration and Division 25 integration.



10:30am – 11:30am \$10 / 1 PDH

LED Dimming Controls: Basic to High Level Solutions

Matt Selecman, Convergence

Lighting Controls are dramatically different today. Learn about the benefits of potential energy savings, lamp life, and creating ambiance. We will discuss advances in LED dimming performance, benefits of wireless technology, retrofits in existing buildings and design approach to new facilities.



12:00pm – 1:00pm \$10 / 1 PDH

1 & 2 Family Dwelling (NEC Requirements)

Matt Goff & Phil Burke, International Association Electrical Inspectors

IAEI One and Two-Family Electrical Systems explains the design, installation and inspection of electrical systems in new and existing one and two-family dwellings based on the 2017 National Electrical Code® (NEC). The presentation covers the subject in detail with photos and diagrams as it pertains to the appropriate residential sections of the 2017 NEC. Attendees will be able to: Define GFCI, Identify all GFCI required location, Define AFCI, Identify all AFCI required locations, Discuss AFCI exceptions with Fire Alarm Systems, Discuss AFCI and Existing Conditions and Modifications, Define Tamper-Resistant Receptacles, Identify all TR Receptacle locations, Define Branch Circuit, Branch circuits and feeders and their wiring methods including overcurrent protection, General lighting circuits, small appliance branch circuits, receptacle spacing, etc., Location requirements for luminaires, receptacles, and switches.



1:30pm – 3:30pm \$20 / .2 CEU

People Column

Best Birthday Greetings to:

- **Wes Rains**, Rains Electrical Sales
- **Nolen O'Dowd, Dan Cannon, Brett Cooper, Jeff Kimmel, Brenda Strong, and Jay Carlson** at CBM
- **Jon Garner** at C&O Sales
- **Kaylin Crain, Terrell Hill, and Enrique Perez** at Kansas City Electrical Supply
- **Ida Edmisten, Scott Bagley, and Justin Bryson** at Crescent Electric Supply.

Happy Anniversary to:

- **Craig Skinner** (3 years) at C&O Sales
- **Mike Tritle** (6 years), **Greg Hanna** (8 years), **Zach Schneider** (2 years) and **Larry Platt** (15 years) at Kansas City Electrical Supply
- **Scott Bagley** (18 years), **Jeremy Crum** (1 year), **Levar Fletcher** (2 years), **Eric Disseler** (8 years), and **Nick Montavy** (1 year) at Crescent Electric Supply Company
- **Deanna Rudd** (26 years) at Rains Electrical Sales.

Congratulations:

- Kansas City Electrical Supply congratulates **Mike Mitchell**, manager of their Troost location, on the birth of his second grandbaby. Baby **Grace** was born Sept. 15, 2021!
- Rains Electrical Sales is congratulating **Wes Rains**, and his wife, **Julie**, on becoming first time grandparents to **Hazel Marian King**. She was born on Sept. 29, 2021!



It was nice to see familiar and new faces at the EL EXPO Kick-Off Breakfast...just a few weeks until this year's Expo: Veterans' Day, Nov. 11, 2021. Hope to see all of you there.

Keep those emails coming in. This is YOUR column and we want to publish YOUR news!

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Fall Golf Results

Tournament Winners:

Flight 1:

- 1st Place – IBEW Local 124 (53)
 2nd Place – Clifford Power (56)
 3rd Place – Graybar (57)

Flight 2:

- 1st Place – Power Equipment Sales (63)
 2nd Place – Kansas City Electric Supply (64)
 3rd Place – Evergy (65)

Contest Holes (\$50 each):

- Closest to the Pin (Front Nine): Tom Mortallaro
 Closest to the Pin (2nd Shot): Steve Messina
 Longest Drive: Doug Smith
 Closest to the Pin (Back Nine): Todd Newton
 Longest Putt: Frank Mascaro

Charity Hole (\$150):

Power Equipment Sales Company

Betting Hole (\$150):

IBEW – Local 124

Ball Launcher (\$50):

Frank Mascaro

Skins Game (3 Skins Paid Out / \$80 each):

- Crescent Electric
- IBEW – Local 124
- Graybar

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 our Volunteers. We
 can't do it without
 YOU!

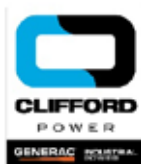
- Ryan Beaver
- Kirby Holden



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<u>DATE</u>	<u>EVENT</u>	<u>LOCATION</u>
November 11	Electric League Expo	Overland Park CC
November 18	State of the Economy Here at Home and Nationally	Virtual Program

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