Engineering & Operations Technical Conference

April 29 - May 2, 2018 • Raleigh, North Carolina

BEST PRACTICES, CASE STUDIES & TRENDS PLUS PROFESSIONAL EDUCATION CREDITS

- Communications & Control
- Environmental Issues
- Generation & Fuels
- Safety
- Supply Management
- System Planning
- Transmission & Distribution
# Breakout Sessions at a Glance

## MONDAY

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<th>Time</th>
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<td>1:30 - 3 p.m.</td>
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<td>To Cloud or Not to Cloud</td>
<td>If You Can’t Measure It, You Can’t Improve It</td>
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<td>3:15 - 4:30 p.m.</td>
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<td>What’s Hot in Solar Technology</td>
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<td>Reliability Power Hour</td>
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<td>Assessing Your OT Governance</td>
<td>Arc Flash Studies: A Modern Approach</td>
<td>Legislative and Regulatory Overview</td>
<td>How “High” is Your Load?</td>
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<td>10:45 a.m. - Noon</td>
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<td>Field Work: Go Mobile to Go Forward</td>
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<td>Cover Up! Proper Use of Protective Equipment</td>
<td>Legislative and Regulatory Overview</td>
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<td>Interconnecting Distributed Generation to the Grid</td>
<td>I Need It Now! Extreme Procurement</td>
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<td>No Disasters in a Disaster: Keeping Mutual Aid Safe</td>
<td>Legislative and Regulatory Overview</td>
<td>The High-Tech Warehouse: Track Your Success</td>
<td>Substation Maintenance Best Practices</td>
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<td>3 - 4:15 p.m.</td>
<td>Using AMI Data to Engage Customers</td>
<td>Back Off from Backfeeding</td>
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<td>Buried Alive! Stop Hoarding in Your Warehouse</td>
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<td>8:30 - 10 a.m.</td>
<td>New Connections: Communications &amp; Control Roundtable</td>
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<td>10:30 - 12:15 a.m.</td>
<td>Closing General Session: Dedication, Pride and Commitment: Leadership Lessons from Black Hawk Down</td>
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## All Tracks

- MONDAY 8:45 - 10 a.m.
- MONDAY 10:30 a.m. - Noon
- MONDAY 1:30 - 3 p.m.
- MONDAY 3:15 - 4:30 p.m.
- TUESDAY 8:30 - 9:45 a.m.
- TUESDAY 10:45 a.m. - Noon
- TUESDAY 1:30 - 2:45 p.m.
- TUESDAY 3 - 4:15 p.m.
- TUESDAY 4:30 - 5:30 p.m.
- WEDNESDAY 8:30 - 10 a.m.
- WEDNESDAY 10:30 - 12:15 a.m.
Conference Sponsors

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• Connect with other attendees
• Share your photos
• Access presentations
• Learn about sponsors
• View award winners and honorees

Search for “American Public Power” in the app store to download the app for iOS or Android.

To login to the app, please use the number on the back of your conference badge.
Sunday, April 29

8 a.m. – 6:30 p.m.  
Conference & Preconference Seminar Registration • BALLROOM FOYER

9 a.m. – 4:30 p.m.  
RP3 Review Panel Meeting • ROOM 304

5 – 6:30 p.m.  
Welcome Reception • BALLROOM C

PRECONFERENCE SEMINARS
Preconference seminars offer longer class times, smaller class sizes, interactive formats, and experienced instructors. Separate registration and fee required.

8:30 a.m. – Noon  
How to Connect Distributed Energy Resources to Transmission and Distribution
Recommended CEUs 3 / PDHs 3.25 / CPEs 3.8, Specialized Knowledge
ROOM 301A

Examine challenges and best practices in integrating distributed energy resources with transmission and distribution systems. Review NERC regulatory guidelines and IEEE 1547 standards for utility practices and policies. Explore energy storage, electric vehicles, microgrids, and other technologies and how they can be used to increase resiliency. Discuss cyber, technical, financial, and other issues associated with connecting DER systems to the grid. Analyze, mitigate, and troubleshoot issues by working through a case study on a distribution interconnected solar project with transmission and distribution impact.

Humberto Branco, PE • Senior Transmission Planning Engineer; Sridhar Chouhan, PE • Senior Power Systems Engineer, Transmission Planning; and Cory Schaeffer • Senior Consultant – Conventional and Emerging Technologies, Leidos

8:30 a.m. – Noon  
Engage and Empower for Excellence in Safety
Recommended CEUs 3 / PDHs 3.25 / CPEs 3.8, Specialized Knowledge
ROOM 301B

If utility leaders want to develop a world-class safety system, you must empower employees to identify and develop solutions for the hazards they know best. How can you encourage your crews to communicate the realities experienced in the field, give them the authority to improve processes, and build accountability into their jobs so they can influence safety in a positive way? Learn how near-miss reporting and accident investigation can be effective tools for employees to build trust with managers and supervisors.

Kevin Ellison, MBA, SSBB • Senior Customer Safety Consultant, Caterpillar, Inc.
1:30 – 5 p.m.  
**AMI: What to Know Before You Shop**  
*Recommended CEUs 3 / PDHs 3.25 / CPEs 3.8, Specialized Knowledge*

ROOM 301A

How do you choose the best AMI vendor from a crowded marketplace? Examine case studies and best practices in AMI procurement and deployment, learn how to prepare your RFPs, and benefit from an unbiased perspective on vendor differences. Review the data throughput; network latency situation; common wireless AMI transport design must-haves; outage reporting and restoration; theft and water leak alerts; metering; and integration approaches with CIS, MDM, OMS, SCADA and other systems. Hear key use cases on remote disconnect/reconnect, meter interval reporting, network administration tools, web presentment, and more. Learn about emerging field area network backhaul applications of distribution automation, street light control, DER, home automation, load management, emerging trends for IoT, and other programs.  
*Rick Schmidt • Managing Director–Infrastructure Modernization, Black & Veatch Management Consulting LLC, Overland Park, Kansas*

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1:30 – 5 p.m.  
**Be Prepared: Complete Guide to Disaster Planning and Response**  
*Recommended CEUs 3 / PDHs 3.25 / CPEs 3.8, Specialized Knowledge*

ROOM 301B

2017 brought four major back-to-back hurricanes – Harvey, Irma, Maria, and Jose. Clearly, natural disasters are increasing in frequency and severity, while customer tolerance for outages is declining. No utility, regardless of its location, can afford to remain unprepared. Join the authors and experts for an in-depth look at the new public power storm restoration guide. Share lessons learned and identify best practices in power restoration. Explore the full range of issues involved in disaster response and recovery – emergency planning, mitigation and preparedness, maintenance and engineering, damage assessment, crew staging and deployment, and the scalability of outage management systems. Learn how to estimate when power can be restored and how to communicate with customers and other stakeholders in emergencies. Understand how best you can mobilize mutual aid to supplement your restoration efforts.  
*Hal Cohen • Preparedness Program Manager, and Charlie Fisher • Senior Managing Director, Witt O'Brien's, Houston, Texas*

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5 – 6:30 p.m.  
**Welcome Reception**

BALLROOM C

Reconnect and network with your colleagues at this welcome reception. Pick up your badge and conference materials at the registration desk.
Opening Breakfast
7:30 – 8:30 a.m.  • BALLROOM C

Awards Presentation
Recipients of the following American Public Power Association awards and honors will be recognized
• Reliable Public Power Provider (RP3) designation
• Safety Awards of Excellence
• 2018 DEED Award of Continued Excellence - Silicon Valley Power

OPENING GENERAL SESSION
8:45 – 10 a.m.  • ROOM 306
Recommended CEUs 1 / PDHs 1.25 / CPEs 1.5

Presiding
Judy Visscher • Chair, APPA Engineering & Operations Section, and Environmental Regulatory Specialist, Holland Board of Public Works, Michigan

Welcome
Roy Jones • Chief Executive Officer, ElectriCities of North Carolina, Raleigh

Powering Strong Communities
As public power utilities adapt to changing business models and incorporate new technologies, it is important not to lose sight of our reason for being – the communities we serve. Public power utilities do not simply cater to ratepayers or manage load; we interact with people who want choices and outstanding service. From prioritizing customer education to bolstering strong operational, financial, and human resources – hear what part you play in ensuring the industry is community and customer focused. Learn how public power is applying the principles of community service in the Navajo Nation, to light up 18,000 homes that have never had electricity.

Wally Haase • Chair, American Public Power Association, and General Manager, Navajo Tribal Utility Authority, Fort Defiance, Arizona

Countering Change with Change: The New Normal
We continue to see new ways of living and using electricity. Even as we grapple with flat and declining load growth, electricity consumption is going up with new uses such as transportation and heating. We’re seeing a more decentralized approach to generation. Cybersecurity threats are looming large and no utility, large or small, is immune. The need for resiliency planning and creating a more efficient mutual aid network, in light of recent severe weather events, is greater than ever. Public power utilities are well-positioned to be nimble in the face of change but we need to capitalize on our strengths. We can no longer stay in our comfort zone on our side of the meter – we must diversify the menu, handle increased distributed generation, build resilience, adapt to changing loads, and serve as trusted energy advisors.

Sue Kelly • President & CEO, American Public Power Association

Break
10 – 10:30 a.m.  • SOUTH HALLWAY
RP3 and Safety Award honorees will have an opportunity to have their pictures taken at this time.
BREAKOUT SESSIONS

10:30 a.m. – Noon
Recommended CEUs .2 / PDHs 1.5 / CPEs 1.8

All roundtable discussions are limited to employees of public power utilities, state and regional associations, and joint action agencies.

Security Holes: The Red Team Approach
CLOSED TO PRESS • ROOM 301A
A red team is an independent group that challenges an organization to improve its effectiveness by assuming an adversarial point of view. It helps to challenge fixed ways of approaching problems. Learn how a red team finds holes in cyber and physical security at a utility and how the utility benefits.

Bill Rogers, CISSP, GSEC • Network and Security Administrator, Cedar Falls Utilities, Iowa, and Jeremiah Talamantes, CISSP, CCISO, CEH, CCENT • President, RedTeam Security Consulting, St. Paul, Minnesota

Supply Management Opening Roundtable
ROOM 301B
Join this roundtable to network with colleagues, hear about current projects and challenges, and discuss supply management topics of mutual interest.

Legislative and Regulatory Overview
ROOM 302B
Start the conference right by joining us for an in-depth discussion on the current regulatory climate. We will discuss key rulemakings and legislation that impacts utilities from an environmental and generation standpoint.

Kevin Culligan • Associate Division Director, Sector Policies and Programs, U.S. Environmental Protection Agency, Washington, D.C., and Melanie King • Sector Policies and Programs Division, Office of Air Quality Planning and Standards, U.S. Environmental Protection Agency, Research Triangle Park, North Carolina

How “High” is Your Load?
ROOM 302A
Legal indoor cannabis growers are moving into buildings that historically used 1-10 watts per square foot and increasing loads to 60-80 watts per square foot. Learn how one utility is working with growers to manage the load growth while reducing demand from lighting, controls, air conditioning and humidity management.

Jim Parks • Director, Energy Research & Development, Sacramento Municipal Utility District, California

Safety Training: Building a New Culture
ROOM 304
Does your utility foster a culture of safety? Are staff at every level familiar with the continuous improvement process? Get proven formulas to prevent incidents through proactive, measurable tasks that integrate safety into every part of your utility’s operations.

Kevin Ellison, MBA, SSBB • Senior Customer Safety Consultant, Caterpillar, Inc.

Noon – 1:30 p.m.
Lunch on your own

KEY TO SESSIONS

Communications & Control
Environmental
Generation & Fuels
Safety
Supply Management
System Planning
Transmission & Distribution
Which Way Are You Going? Mapping for Automation

ROOM 301A

Is your GIS mapping able to support advanced programs? How do you determine if it is ready? Explore different levels of readiness and discuss the challenges one utility faced in gearing up for new technologies.

Jim Weikert • Lead Utility Automation Engineer, Power Systems Engineering, Madison, Wisconsin

Best Practices in Emergency Communications

ROOM 304

Why and how should utility employees communicate with local emergency responders? Discover how to help first responders and utility workers educate and communicate with each other during disasters. Learn what emergency responders need to know and how to encourage clear communication among involved groups.

Dan Llewellyn • Electric Services Coordinator, Iowa Association of Municipal Utilities, Ankeny, Iowa; and Brian L. Sherrill • Battalion Chief, 2nd Battalion, Raleigh Fire Department, North Carolina

I Made My Power Plant Disappear!

ROOM 302B

Aging coal power plants are shutting down. Legacy environmental contamination is a reality for many shuttered plants and environmental conditions often prevent sites from being sold or redeveloped. Hear lessons learned from applying the Liability Risk Transfer Model for the divestiture of a 1950s era 38MW coal-fired power plant. Additionally, you will get a chance to see how some utilities, who were able to redevelop, managed to repurpose the plants for their communities.

Eric Holder, BCES • Environmental Programs Supervisor, Independence Power & Light, Missouri; Richard Jackson, PE • Manager, Capital Projects, Santee Cooper; Moncks Corner, South Carolina; Steve Mitchel • Senior Vice President, Weston Solutions, Inc. Albuquerque, New Mexico; and Mark Rothmier, PE • Utility Project Development Manager, Independence Power & Light, Missouri

Unlock Your Defenses: Physical Security Technologies

ROOM 302A

Physical threats to the grid are on the rise and your utility is not immune. You need to put a physical security program in place to protect your critical assets. Dive into a case study of one utility that installed technologies to monitor and report incidents. Get a refresher on security best practices and pitfalls to avoid.

Mark Mariotti • Vice President, Netwarch USA, Newton, Massachusetts; and Jonathan Sawicki • Senior Consultant, Witt O’Brien’s, Houston, Texas

All Hands on Deck: Why You Should Participate in GridEx

ROOM 301B

GridEx is a biennial exercise designed to simulate a cyber/physical attack on electric and other critical infrastructures across North America. Learn what GridEx is all about and why utilities of all sizes should participate. Hear how two utilities planned and executed the exercise, feedback they received, lessons learned, and areas for improvement.

Ken Lewis • Principal Analyst, Emergency Management, Salt River Project, Phoenix, Arizona; and Eric Ruskamp, PE • Manager, Regulatory Compliance, Lincoln Electric System, Nebraska

3 – 3:15 p.m.
Break
SOUTH HALLWAY

1:30 – 3 p.m.

Recommended CEUs .2 / PDHs 1.5 / CPEs 1.8

MONDAY, APRIL 30

BREAKOUT SESSIONS

1:30 – 3 p.m.

3 – 3:15 p.m.

1:30 – 4 p.m.

1:30 – 4 p.m.

EXPO PREVIEW HOURS

SOUTH HALLWAY

BALLROOM A&B

Meet industry suppliers to learn how their products and services will benefit your utility. Scan the QR code of each vendor you visit for the chance to win an Apple Watch, Amazon Echo, or a YETI Rambler 36oz Vacuum Insulated Stainless Steel Bottle. The more booths you visit, the better your chance of winning! See the conference mobile app for full game details.
**To Cloud or Not to Cloud**  
ROOM 301A  
Hosted software solutions are becoming the norm. What options does your utility have? And what are the pros and cons of cloud-based software? Join a comprehensive discussion and get the utility as well as vendor perspectives.  
*Steve Collier • Director of Smart Grid Strategies, Milsoft Utility Solutions, Abilene, Texas*

**What’s Hot in Solar Technology**  
ROOM 302B  
Over the past decade, the industry has changed drastically and technologies have come and gone. Unlike many others, solar technologies have made a new home in the electric utility industry. As customers continue to look towards these new technologies and utilities begin to embrace the challenge of renewable integration, the options in the market continue to increase. Join us to hear about new solar technologies and how your peers are using them.  
*JoDonna John • Renewable Engineer, Navajo Tribal Utility Authority, Fort Defiance, Arizona; and James Whittemore • Quality Manager, Mission Solar Energy, LLC, San Antonio, Texas*

**If You Can’t Measure It, You Can’t Improve It**  
ROOM 304  
Are you tracking safety incidents? The more you understand and analyze what occurs at your utility, the easier it will be to create a safer environment for your workers and customers. Learn how to better track your utility’s safety related events and examine current safety trends through a sneak peek of the Association’s new safety video series. Safety insights are brought to you in part by the Association’s DEED research and development program and engineering team.  
*Alex Hofmann • Director, Energy and Environmental Services, American Public Power Association; and Mike Willetts • Director of Training & Safety, Minnesota Municipal Utilities Association, Buffalo, Minnesota*

**Make it Now, Use it Later**  
ROOM 302A  
Battery storage is critical to our energy future. Have you considered your utility-scale storage options? Where do you start? What are the pros and cons? Explore the answers with other utilities that have walked the path and get the latest on lithium ion battery manufacturing and pricing.  
*Joel Danforth • Customer Service Program Manager, Platte River Power Authority, Fort Collins, Colorado; and Jules Marchesseault • Engineering and Operations Manager, Lodi Electric Utility, California*

**Cry for Help BEFORE Disaster Strikes**  
ROOM 301B  
Disaster can strike with little or no notice. Are you prepared? Do you have a comprehensive plan? Hear best practices and lessons in disaster response and recovery from the record-breaking 2017 hurricane season. Understand how best you can mobilize mutual aid to supplement your crews and materials.  
*Tyler Brown • Captain, Law Enforcement Division, Grand River Dam Authority, Langley, Oklahoma*
Expo Opening Reception
Unwind over food and drink while you network with public power colleagues. Continue talking to vendors and scanning their QR codes for the chance to win great door prizes. Learn something new at these Elite and Diamond sponsor presentations:

- **4:30 - 5 p.m.** IPS Energy: Integrate Asset Details Into GIS Systems to Improve Operations
- **5 - 5:30 p.m.** Leidos: Automation – Cheaper than an Intern
- **5:30 - 6 p.m.** PowerSecure: Success with Distributed Generation
- **6 - 6:30 p.m.** ARCOS, Inc.: Kill Your Spreadsheets and Mobilize Resources with ARCOS, Inc.

Networking Breakfast for Women in Public Power
7 – 8:15 a.m. • ROOM 302C
Grab your continental breakfast and get to know some of your fellow attendees. Enjoy a lively discussion about the growing influence of women in public power and share successes and solutions.

Networking Continental Breakfast in Expo Hall
7:30 – 8:30 a.m. • BALLROOM A&B
Power up at this informal breakfast. Visit new vendors and scan their QR codes (see the conference mobile app for game details). Door prize winners will be announced during the morning refreshment break! Hear this Diamond sponsor presentation:

- **7:30 - 8 a.m.** 8minuteenergy: The Future is Here for Solar • Storage
- **8 - 8:30 a.m.** Tantalus: The Sustainable Utility
Assessing Your OT Governance
ROOM 301A
As operational technology gets more complex, so does its governance. Hear from a public power utility that recently conducted an OT governance assessment. Discuss key findings, recommendations, and lessons learned.
Wayne Lynn • Director of T&D, Lansing Board of Water & Light, Michigan; and Loreto Sarracini • President, AESI-US, Inc., Tucker, Georgia

Arc Flash Studies: A Modern Approach
ROOM 304
Modern methods of performing and presenting arc flash studies can improve data collection, efficiency, quality control, and presentation of study results. Review lessons learned from several distribution and generating facility arc flash projects that have used these modern methods. Each method will be presented along with specific takeaways for those planning their next arc flash study.
Jeffery Burgess • Senior Electrical Engineer, and Tyler Patton • Senior Electrical Engineer, Leidos, Hendersonville, Tennessee

Contract with Care: Avoid Collusion and Fraud
ROOM 301B
Get an overview of the Antitrust Division’s enforcement operations and the crimes that it prosecutes criminally. Learn how to identify bid rigging and market allocation schemes in government contracting. Understand how procurement officials can detect, deter, and prevent, such collusion.
Heather Call • Trial Attorney, U.S. Department of Justice, Antitrust Division, Washington, D.C.

An Island in a Sea of Black: How Microgrids Build Resiliency
ROOM 302B
Microgrids are an important part of the conversation on grid resilience. Having the ability to disconnect from the grid and operate independently – especially in the event of emergencies – can benefit your utility and customers and keep essential services like hospitals powered. Explore how utilities are implementing microgrids in their communities.
Joe Eto • Strategic Advisor, Energy Storage & Demand Resources, Lawrence Berkeley Laboratories, Berkeley, California; and Eric Walters • Administrative and Fuels Operations Director, Gainesville Regional Utilities, Florida

Small Wireless Devices: Rules of Deployment
ROOM 302A
Learn about proposed state laws on rules for the deployment of small wireless devices. Hear about potential health effects associated with these installations. Understand the requirements and plan for mandated public notification and signage.
David Barnes • Chief Legal & Ethics Officer, ElectriCities of North Carolina, Raleigh; and Gerry Spinelli • North America Instrument Sales Manager, Narda Safety Test Solutions, Hauppauge, New York

Vendor Expo & Refreshment Break
BALLROOM A&B
Grab a drink, meet some new vendors, and scan QR codes until 10:15. Door prize winners will be announced at 10:30!
Field Work: Go Mobile to Go Forward

ROOM 301A

Mobile technologies are enabling public power utilities to automate and optimize field work activity. Learn how mobile workforce and asset management applications are improving efficiencies, safety, reliability and response times. Hear how one utility is leveraging a mobile work management system, mobile timekeeper, asset inspector, field data collector, and underground damage prevention forms, to support core processes.

Bob Bryant • Account Manager, Clevest, Richmond, British Columbia; Aaron Johnson • System Analyst and Kelly Mayo • Business Analyst, Greenville Utilities Commission, North Carolina

Fast and Furious: Electric Vehicles

ROOM 302B

The invasion of electric vehicles into the market is fast and furious. Is your utility ready to handle the new loads from transportation? Learn about the challenges and benefits other utilities have experienced while incorporating electric vehicle charging stations and infrastructure in their communities.

Troy Adams, PE • General Manager, Elk River Municipal Utilities, Minnesota; and Karl Popham • Manager, Electric Vehicles & Emerging Technologies, Austin Energy, Texas

Cover Up! Proper Use of Protective Equipment

ROOM 304

Creating a culture of safety is one of the most valuable assets a utility can have, both to ensure that employees are safe and to promote reliable service. Come join this practical refresher course on rubber protective equipment and proper installation. Learn how to keep your crews up to speed with changes in the public power Safety Manual and strengthen your culture of safety.

Kim Culpepper • Technical Education Manager, Tennessee Valley Public Power Association, Inc., Chattanooga

Substation Maintenance Best Practices

ROOM 302A

Old and new oil-filled power transformers lack access to install online oil monitors. Learn how a replacement Transformer Radiator Docking System for Online Monitoring solves numerous problems with a safe, flexible design and enables an industry-first, continuous oil quality online approach to track moisture effects on oil and paper.

Roger Fenton • Principal Engineer, Fenton Solutions, LLC, Upland, California; and Dave Smithberger • Field Operations Manager, FirstPowerGroup LLC, Twinsburg, Ohio

I Need It Now! Extreme Procurement

ROOM 301B

Join us for everything you may or may not want to know about procurement. Have questions ready for this informal Q&A panel of procurement managers. Topics include best practices, terms and conditions, p-cards, contracts, bids, RFP vs. RFQ, automated procurement, and more.

Todd Dlouhy • Manager, Procurement & Stores, Lincoln Electric System, Nebraska; and Russell M. Pankey, CPP, CPPB • Procurement Manager, City of Independence, Missouri

Lunch on your own
BREAKOUT SESSIONS

1:30 – 2:45 p.m.

Recommended CEUs 1 / PDHs 1.25 / CPEs 1.5

Interconnecting Distributed Generation to the Grid
ROOM 301A
As generation becomes more decentralized, utilities must contend with how to connect distributed generation arrays back to the grid. A public power utility will discuss how it interconnected 45 MW of distributed generation to a substation and the challenges and solutions along the way.

Joe Adams • Planning and Engineering Director, Shakopee Public Utilities, Minnesota; and Kevin Favero • Senior Project Manager, Leidos, Bloomington, Minnesota

No Disasters in a Disaster: Keeping Mutual Aid Safe
ROOM 304
Mutual aid – neighbors helping neighbors across the country – is vital to restoring power after a significant disaster. However, injuries and fatalities may occur when workers from outside are unfamiliar with the terrain or infrastructure and are not appropriately briefed. Learn how public power utilities perform job safety briefings for mutual aid crews. Review lessons learned from recent disasters.

Jon Beasley • Director, Training and Safety, Electric Cities of Georgia, Atlanta; Neil James • Manager, Distribution Operations, Santee Cooper, Moncks Corner, S.C.; and Mike Willetts • Director of Training & Safety, Minnesota Municipal Utilities Association, Buffalo, Minnesota

The High-Tech Warehouse: Track Your Success
ROOM 301B
How do you manage the lifecycle of materials? Explore how one utility is using Cityworks Storeroom to track all activity from purchasing to retirement. The software can help you buy, receive, and issue materials to an employee or work order; manage multiple warehouses and vehicle inventories; use barcode scanners; audit adjustments; track suppliers; establish minimum and maximum limits; and set up costing options at the item level.

Emily Brazeal • Systems Program Coordinator, Independence Power & Light, Missouri; and Mark Rytilahti • Senior Consultant, POWER Engineers, Green Bay, Wisconsin

Portfolio Planning for the Utility of the Future
ROOM 302B
What will your energy resource portfolio look like two, five, or ten years from now? What factors should drive your strategic decisions? Get insights from utilities like yours that have made changes to their portfolio due to market forces, pricing/hedging, customer demands, and other factors.

Erika Bierschbach • Interim Director, Energy & Market Operations, Austin Energy, Texas; and Brad Decker • Strategic Planning Manager, Platte River Power Authority, Fort Collins, Colorado

Flying High on Benefits with Drones
ROOM 302A
Learn from a utility that has been working with drones for over five years. Hear how they’ve used this technology for practical field applications (infrastructure inspections, rooftop surveys, insurance adjustments, communication resources, etc.) and during restoration efforts after Hurricane Harvey. Learn about potential future adaptations and the benefits of using drones on a day-to-day basis.

Greg Angst • Consulting Engineer, CenterPoint Energy, Houston, Texas

2:45 – 3 p.m.
Break

SOUTH HALLWAY
Using AMI Data to Engage Customers

ROOM 301A

How do you take the data from your AMI system to the next level for enhanced customer service? Learn how Bolivar Energy Authority has deployed innovative customer engagement programs.

*Steve Herriman* • Purchasing & IT Manager, Bolivar Energy Authority, Tennessee; and *Drue Merkle* • Solutions Architect, Honeywell, Raleigh, North Carolina

Winter is Coming: Climate Resiliency and Protecting Your Assets

ROOM 302A

Fires, storms, hurricanes, and other natural disasters are becoming all too frequent. Are your utility’s systems built to withstand the pressures of natural disasters? Discover how other public power utilities are taking extreme weather events and environmental drivers into account when planning system upgrades and maintenance.

*Therese P. McAllister* • Community Resilience Group Leader & Program Manager, National Institute of Standards and Technology, Gaithersburg, Maryland

Back Off from Backfeeding

ROOM 304

The expansion of new energy sources, from large scale solar generation to small wind turbines, are introducing new safety challenges from backfeeding lines. Hear from safety experts on their experiences with new installations. Improve your awareness of the dangers of backfeeding, and learn how to respond.

*Jon Beasley* • Director, Training and Safety, Electric Cities of Georgia, Atlanta; *Matt Hyatt* • Line Supervisor, Huntsville Utilities, Alabama; and *Bob Rumbaugh* • Manager of Technical Training, American Municipal Power, Inc., Columbus, Ohio

Buried Alive! Stop Hoarding in Your Warehouse

ROOM 301B

Is your warehouse overstocked? Do you need to clean house? Review a checklist to assess your warehouse situation. Identify the types of inventory that are potentially surplus and the disposal tools available. Discuss best practices in warehouse operations such as asset tracking, safety and risk management, optimization, and improved inventory management.

*Jeff Coleman* • Manager of Purchasing and Material Management, New Braunfels Utilities, Texas; and *Rebecca Murphy* • National Manager, State Surplus Sales, GovDeals, Inc., Montgomery, Alabama

Joint Action Agency/State and Regional Association Roundtable

ROOM 202

Meet with your peers to discuss engineering and operations hot topics for joint action agencies and state and regional associations.

*Moderator: Walter West* • Analytical Director, Electric Cities of Georgia, Atlanta
4:30 – 5:30 p.m.
Reliability Power Hour
ROOM 302C
Join the Association’s Reliability Team for an open discussion and overview of public power reliability benchmarking metrics. Discuss the latest reliability benchmarking data, share reliability stories, and help further the public power reliability discussion. Network with your peers over a drink during this informal and informative session. Cash bar provided.

Alex Hofmann • Director, Energy and Environmental Services, and Mike Hyland • Senior Vice President, Engineering Services, American Public Power Association

6 p.m.
Young Professionals Happy Hour
Meet up with other young professionals from public power utilities, affiliates, and partner organizations at a relaxing, fun, pay-your-own-way happy hour. Share a drink and discuss how to take on the future.

Meet at the following location at 6 p.m.
CRANK ARM BREWING
319 West Davie Street • Raleigh, NC 27601

KEY TO SESSIONS
Communications & Control
Environmental
Generation & Fuels
Safety
Supply Management
System Planning
Transmission & Distribution
Wednesday, May 2

Networking Breakfast
7:30 – 8:30 a.m. • SOUTH HALLWAY

ROUNDTABLES AND CLOSING GENERAL SESSION
8:30 – 11:45 a.m.
Recommended CEUs 2 / PDHs 1.5 / CPEs 1.8
All roundtable discussions are limited to employees of public power utilities, state and regional associations, and joint action agencies.

New Connections: Communications & Control Roundtable
ROOM 301A
Discuss system integration, IT/OT contracting, and the impact of distributed energy resources and storage, and more.

Customer Service vs. Employee Safety: Safety Roundtable
ROOM 304
Share stories on managing the delicate balance of customer service and employee safety.

Supply Management Closing Roundtable
ROOM 301B
Discuss supply management issues with colleagues – hear about current projects and challenges, and review takeaways from your favorite conference sessions.

Knights of the Environmental Roundtable
ROOM 302B
Join us for a short presentation on utility solid waste issues and discuss pressing issues in the environmental and generation realms.
Scott Benson • Manager, Resource & Transmission Planning, Lincoln Electric System, Nebraska; and Jim Roewer • Executive Director, Utility Solid Waste Activities Group, Washington, D.C.

Shared Solutions: T&D/System Planning Roundtable
ROOM 302A
Join your peers in an open forum to discuss critical T&D and system planning issues impacting your utility.

10 – 10:30 a.m.
Break
SOUTH HALLWAY

10:30 – 11:45 a.m.
CLOSING GENERAL SESSION
BALLROOM A
Recommended CEUs 1 / PDHs 1.25 / CPEs 1.5

Dedication, Pride and Commitment: Leadership Lessons from Black Hawk Down
As an Army Ranger deployed to Somalia in 1993, First Sergeant Matt Eversmann experienced the horrors of war when he and his fellow soldiers were trapped in a hostile district of Mogadishu and marked for death by an angry mob. His inspiring story of survival was immortalized in the epic film, “Black Hawk Down,” which recounts the harrowing experience. Eversmann will discuss the human qualities essential to survive the terrors of war. He will explain the three attributes that brought him home alive – leadership, courage, and selfless service.
First Sergeant Matt Eversmann (Ret.), Decorated War Hero and Military Leader

11:45 a.m.
Adjourn
POST-CONFERENCE SEMINAR

Thursday, May 3
9 a.m. – 5 p.m.

**DOE’s Cyber Strike Workshop**

**ROOM 302**

*Pre-registration required: limited to 60 people.*

This workshop is hosted by the U.S. Department of Energy’s Office of Electricity Delivery and Energy Reliability (and sponsored by its Infrastructure Security and Energy Restoration Division), in collaboration with the Electricity Information Sharing and Analysis Center and Idaho National Laboratory.

*Tim Conway • Under contract to DOE under Idaho National Laboratory*
# 2017 Safety Award of Excellence Winners

## Group A – for systems with less than 15,000 worker-hours of exposure

<table>
<thead>
<tr>
<th>Organization</th>
<th>State</th>
<th>Worker-Hours of Exposure</th>
<th>Incidence Rate</th>
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## Group B – for systems with 15,000 to 29,000 worker-hours of exposure

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### 2017 Safety Award of Excellence Winners

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| **Group D – for systems with 60,000 to 109,999 worker hours of exposure** |       |                           |                |                |
| Bolivar Energy Authority                   | TN    | 104073                    | 0              | First          |
| City of Gastonia                           | NC    | 82746.5                   | 0              | First          |
| Easton Utilities Commission                | MD    | 68093                     | 0              | First          |
| Heber Light & Power Co.                    | UT    | 72506                     | 0              | First          |
| Hopkinsville Electric System               | KY    | 102045                    | 0              | First          |
| Marshall Municipal Utilities               | MN    | 63399                     | 0              | First          |
| Merced Irrigation District                 | CA    | 69777                     | 0              | First          |
| New Smyrna Beach Utilities Commission      | FL    | 61996.5                   | 0              | First          |
| Tullahoma Utilities Authority              | TN    | 66009.14                  | 0              | First          |
| Carthage Water & Electric Plant            | MO    | 96628                     | 2.06           | Second         |
| Coldwater Board of Public Utilities        | MI    | 91043.65                  | 2.2            | Third          |
| Harrisonburg Electric Commission           | VA    | 79229                     | 2.52           | Honorable Mention |

| **Group E – for systems with 110,000 to 249,999 worker hours of exposure** |       |                           |                |                |
| Austin Utilities                           | MN    | 125111.03                 | 0              | First          |
| Kerrville Public Utility Board             | TX    | 132945                    | 0              | First          |
| Jackson Energy Authority                   | TN    | 211738                    | 0.94           | Second         |
| Clinton Utilities Board                    | TN    | 196645                    | 1.02           | Third          |
| Morristown Utility Systems                 | TN    | 180000                    | 1.11           | Honorable Mention |

| **Group F – for systems with 250,000 to 999,999 worker hours of exposure** |       |                           |                |                |
| Platte River Power Authority               | CO    | 450312                    | 0.43           | First          |
| American Municipal Power, Inc. #           | OH    | 296986                    | 0.67           | Second         |
| Roseville Electric                         | CA    | 251266.25                 | 0.79           | Second         |
| Guam Power Authority                       | GU    | 872338                    | 0.92           | Third          |
| Bryan Texas Utilities                      | TX    | 371148                    | 1.08           | Honorable Mention |

| **Group G – for systems with 1,000,000 to 3,999,999 worker hours of exposure** |       |                           |                |                |
| Energy Northwest #                         | WA    | 2379081                   | 0.34           | First          |
| Nebraska Public Power District             | NE    | 3674050                   | 0.87           | First          |
| Santee Cooper                              | SC    | 3604945                   | 0.887          | Second         |
| Omaha Public Power District                | NE    | 3602771                   | 1.61           | Third          |
| Navajo Tribal Utility Authority            | AZ    | 1073032                   | 2.42           | Honorable Mention |
| New York Power Authority #                 | NY    | 3526948                   | 2.21           | Honorable Mention |

| **Group H – for systems with more than 3,999,999 worker hours of exposure** |       |                           |                |                |
| Salt River Project                         | AZ    | 10632014                  | 1              | First          |
| JEA                                         | FL    | 4213235.67                | 1.85           | Second         |
## 2018 Reliable Public Power Provider Designated Utilities

The final list of designees will be available at www.PublicPower.org/RP3.

**Diamond**
- Benton PUD, WA
- Braintree Electric Light Department, MA
- Burbank Water and Power, CA
- City of Calhoun, GA
- City of College Station, TX
- City of High Point Electric Utility, NC
- City of Palo Alto Utilities, CA
- City of Rock Hill, SC
- City of Shelby, NC
- City of Tallahassee Electric Utility, FL
- Cleveland Public Power, OH
- Colorado Springs Utilities, CO
- Columbia Water and Light, MO
- Fort Pierce Utilities Authority, FL
- Freeport Electric, NY
- Greeneville Light & Power System, TN
- Greenville Utilities Commission, NC
- Hannibal Board of Public Works, MO
- Holyoke Gas & Electric Department, MA
- Hudson Public Power, OH
- Knoxville Utilities Board, TN
- Lincoln Electric System, NE
- Long Island Power Authority, NY
- Loveland Water and Power, CO
- Lowell Light and Power, MI
- Manitowoc Public Utilities, WI
- Memphis Light, Gas & Water Division, TN
- Norwich Public Utilities, CT
- Oconomowoc Utilities, WI
- Owensboro Municipal Utilities, KY
- Piqua Power System, OH
- Richland Center Electric Department, WI
- Sacramento Municipal Utility District, CA
- Shakopee Public Utilities Commission, MN
- Sterling Municipal Light District, MA
- Tillamook People’s Utility District, OR
- Town of Granite Falls, NC
- Tullahoma Utilities Authority, TN
- Two Rivers Water & Light, WI
- Waverly Utilities, IA
- Wisconsin Rapids Water Works & Lighting Commission, WI

**Platinum**
- American Samoa Power Authority, AS
- Borough of Ephrata, PA
- BrightRidge, TN
- Bristol Tennessee Essential Services, TN
- Central Lincoln People’s Utility District, OR
- City of Albemarle, NC
- City of Bowling Green, OH
- City of Cartersville Electric System, GA
- City of Clinton, SC
- City of Elizabeth City, NC
- City of Jackson Electric Operations, MO
- City of Kinston, NC
- City of Lodi Electric Utility, CA
- City of Lompoc Electric, CA
- City of Milan Department of Public Utilities, TN
- Coffeyville Municipal Light & Power, KS
- Coldwater Board of Public Utilities, MI
- Cowlitz County Public Utility District No 1, WA
- Denton Municipal Electric, TX
- Douglas County PUD, WA
- Evansville Water and Light, WI
- Glendale Water and Power, CA
- Grand Haven Board of Light & Power, MI
- Heber Light & Power, UT
- Idaho Falls Power, ID
- Kansas City Board of Public Utilities, KS
- Kirkwood Electric Department, MO
- Kissimmee Utility Authority, FL
- Macon Municipal Utilities, MO
- McMinnville Electric System, TN
- Murfreesboro Electric Department, TN
- Navajo Tribal Utility Authority, AZ
- New Martinsville Municipal Electric Utility, WV
- Northern Wasco County People’s Utility District, OR
- Opelika Power Services, AL
- Pasadena Water and Power, CA
- Richmond Power & Light, IN
- River Falls Municipal Utilities, WI
- Rock Falls Electric Department, IL
- Springfield City Electric Department, UT
- St. Clairsville Electric, OH
- Stillwater Electric Utility, OK
- Sun Prairie Utilities, WI
- Taunton Municipal Lighting Plant, MA
- Town of Clayton, NC
- Town of Smithfield, NC
- Town of Wake Forest, NC
- Traverse City Light & Power, MI
- Truckee Donner Public Utility District, CA

**Gold**
- Azusa Light & Water Department, CA
- Borough of Lansdale Electric Department, PA
- Brainerd Public Utilities, MN
- City of Fremont, NE
- City of Gastonia, NC
- City of Harrisonville Electric Department, MO
- City of Lumberton, NC
- City of Monett, MO
- City of Morganton, NC
- City of Newton, NC
- City of Ottawa, KS
- Clarksville Light and Water Co., AR
- Estes Park Light and Power, CO
- Hope Water & Light, AR
- Kaysville City Power and Light, UT
- Kerrville Public Utility Board, TX
- Kittitas PUD No 1, WA
- Lehi City Power, UT
- Lewes BPW, DE
- Lewisburg Electric System, TN
- Mansfield Municipal Electric Department, MA
- Municipal Utilities Board of the City of Albertville, AL
- New Prague Municipal Utilities, MN
- Newnan Utilities, GA
- Oak Harbor Public Power, OH
- Orrville Utilities, OH
- Paris Board of Public Utilities, TN
- Village of Westfield Electric, NY
## 2018 American Public Power Association Engineering and Operations Section

The American Public Power Association’s Engineering and Operations Section sponsors this annual meeting. The section supports seven committees organized for professional development and networking: Communications and Control, Environmental, Generation & Fuels, Safety, Supply Management, System Planning, and Transmission & Distribution.

Thank you to all the E&O planning meeting attendees who helped develop the 2018 E&O program.

### Engineering & Operations Section

<table>
<thead>
<tr>
<th>Role</th>
<th>Name</th>
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<tbody>
<tr>
<td>Chair</td>
<td>Judy Visscher</td>
</tr>
<tr>
<td>Vice Chair</td>
<td>Monte Cooper</td>
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<td>Vice Chair</td>
<td>Keith Cutshall</td>
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### Communications & Control

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<tr>
<td>Chair</td>
<td>Zach Winters</td>
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<td>Nicolas Kumm</td>
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### Environmental

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<tr>
<td>Chair</td>
<td>Kimberly Stoker</td>
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<td>Vice Chair</td>
<td>Kathleen Garrett</td>
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### Generation & Fuels

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<tr>
<td>Chair</td>
<td>Christopher Wood</td>
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<tr>
<td>Vice Chair</td>
<td>Susan Jackson</td>
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### Safety

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<tr>
<td>Chair</td>
<td>Duane Richardson</td>
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<tr>
<td>Vice Chair</td>
<td>Keith Cutshall</td>
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### Supply Management

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<tr>
<td>Chair</td>
<td>Christina Balmer</td>
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<tr>
<td>Vice Chair</td>
<td>Kathy Barsczak</td>
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### System Planning

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<td>Christopher Wood</td>
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<td>Vice Chair</td>
<td>Kenneth Stone</td>
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### Transmission & Distribution

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<tr>
<td>Chair</td>
<td>Jared Stewart</td>
</tr>
<tr>
<td>Vice Chair</td>
<td>John VanGundy</td>
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Accreditation & Certification

Attendees of the 2018 Engineering and Operations Technical Conference can earn continuing education units (CEUs), professional development hours (PDHs), and continuing professional education credits (CPEs) for attending conference sessions. Attendees must complete the Verification of Attendance form (provided on-site) to receive a certificate for educational credits earned.

Continuing Education Units
The American Public Power Association is accredited by the International Association for Continuing Education and Training (IACET) and is authorized to issue the IACET CEU.

Professional Development Hours
The Association’s educational practices are consistent with the criteria for awarding Professional Development Hours (PDHs) as established by the National Council of Examiners for Engineering and Surveying (NCEES). Course eligibility and number of PDHs may vary by state.

Continuing Professional Education Credits
The American Public Power Association is registered with the National Association of State Boards of Accountancy (NASBA) as a sponsor of continuing professional education on the National Registry of CPE Sponsors. State boards of accountancy have final authority on the acceptance of individual courses for CPE credit. Complaints regarding registered sponsors may be addressed to the National Registry of CPE Sponsors, 150 Fourth Ave. N., Suite 700, Nashville, TN 37219-2417. Website: www.nasbaregistry.org.

Earn up to 15.9 CPE credit hours for attending the conference (not including the preconference seminars). All sessions are intermediate-level, group-live offerings with no prerequisites and no advance preparation required. Areas of study are listed on the Verification of Attendance form. For more information regarding administrative policies, such as clarification of requirements, complaints, and refunds, contact EducationInfo@PublicPower.org.

Reliable Public Power Provider Designation
Participating in the Academy’s conferences and seminars is an easy way to earn points toward the American Public Power Association’s Reliable Public Power Provider (RP3) designation, which recognizes and rewards public power utilities that demonstrate proficiency in four important disciplines: reliability, safety, workforce development, and system improvement. For more information, visit www.PublicPower.org/RP3.

DEED
APPA’s Demonstration of Energy & Efficiency Developments (DEED) program is the only research and development program funded by and for public power utilities. DEED encourages activities that promote energy innovation, improve efficiencies, and lower costs of energy to public power customers. For more information, visit PublicPower.org/DEED.
Conference Evaluation:
A link to an online survey about the conference will be emailed to attendees after the conference. We appreciate your valuable feedback.

Conference Presentations:

Guest Activities
Conference registrants may bring a guest to the evening social events. Guests are welcome to attend the Sunday evening Welcome Reception and the Monday evening Vendor Expo Opening Reception.

Restricted Sessions
The American Public Power Association reserves the right to designate any Association meeting or session open only to Association regular members (public power utilities, rural electric cooperatives, joint action agencies and state/regional associations). Please inquire at the registration desk if you have any questions.

American Public Power Association Antitrust Statement
The Association reminds all those attending the Engineering and Operations Technical Conference that various state and federal laws prohibit the exchange of information among competitors regarding the matters pertaining to price, refusals to deal, markets division, tying relationships and other topics that might infringe upon antitrust laws and regulations. No such exchange or discussion will be tolerated during the meeting. A copy of the Association’s Statement of Compliance with the Antitrust Laws is available upon request.

The American Public Power Association is the voice of not-for-profit, community-owned utilities that power 2,000 towns and cities nationwide. We represent public power before the federal government to protect the interests of the more than 49 million people that public power utilities serve, and the 93,000 people they employ. Our association advocates and advises on electricity policy, technology, trends, training, and operations. Our members strengthen their communities by providing superior service, engaging citizens, and instilling pride in community-owned power.

The Academy is public power’s complete resource for professional education and certification, helping electric industry employees stay abreast of rapidly evolving technologies, regulation, and customer needs. Learn more about our conferences, webinars, special events, continuing education, and custom in-house trainings at www.PublicPower.org under Education & Events.
Mark Your Calendar
2019

The Broadmoor • Colorado Springs, Colorado

Public Power Lineworkers Rodeo • March 29-30
Engineering & Operations Technical Conference • March 31 – April 3