



Southeastern Distribution Apparatus School and Conference

September 18th - 21st, 2017

The Hotel at Auburn University
and Dixon Conference Center
Auburn, Alabama

Utility Technology Association is a 501c(6) non-profit organization dedicated to the delivery of high quality, practical and comprehensive training designed to meet the needs and challenges of today's electric utility industry. The organization is referenced as Utility Technology Education in all event promotional and program advertising medium.

General Information

The 2017 Southeastern Distribution Apparatus School and Conference is sponsored by **Utility Technology Education**. The conference will be held September 18th - 21st. The conference provides a forum for electric utility technicians and engineers involved in distribution, telecommunication, substation and apparatus departments to obtain high quality, practical, and comprehensive training.

The conference is divided into concurrent modules to better provide instruction for utility professionals at all levels of experience. The courses are designed for participants to select topics they require or have an interest in.

Utility Technology Education programs are unique because they are designed and taught by experts in the utility field. Instructors come from a wide-range of backgrounds including electric utilities, equipment manufacturers and consulting engineering firms.

Exhibit Hall

The Exhibit Hall will be open **Monday, September 18th through Wednesday, September 20th**. All the suppliers you need to meet will be in one place to answer your questions and demonstrate their products.

One Day Participant Program

This provides an opportunity for management (general managers, purchasing agents, operation managers, engineers, etc.) to **attend one day for a reduced charge**. Come on any day and attend a few classes, then enjoy an evening of hospitality in the Exhibit Hall.

Professional Development Hours

The Southeastern Distribution Apparatus School and Conference will award **18 professional development hours** to participants attending the entire school.

Location

The **Hotel at Auburn University and Dixon Conference Center** is centrally located three miles from Interstate 85. The Hotel at Auburn University is situated in a charming university campus environment within easy walking distance to many shops and restaurants in the quaint, historical downtown **Auburn, Alabama**. Find out more about the hotel and location at www.auhcc.com.

Hotel Accommodations

A block of rooms has been reserved for attendees at the **Hotel at Auburn University**, 241 South College Street, Auburn, Alabama 36830. Reservations can be made through the hotel by phone at **(800) 228-2876**.

Since rooms are limited, please make your reservations by September 5th, 2017 to insure availability. **The special room rate is \$134.00 plus tax**. Be sure to identify yourself as being with the Southeastern Distribution Apparatus School for the group rate.

Group Code: 170917APPA

Directions

Atlanta to Auburn (110 miles)

Take I-85 South towards Montgomery. Take the Auburn exit (exit 51.) The Auburn University Hotel and Dixon Conference Center is located approximately 3.5 miles on US 29, directly across from Draughton Library.

Birmingham to Auburn (120 miles)

From Birmingham, take US Highway 280 East approximately 110 miles. Take a right onto Highway 147 and follow it 5 miles to Auburn. The Auburn University Hotel and Dixon Conference Center is located on the left directly across from the Draughton Library, at 241 South College Street.

Registration

The registration to the Southeastern Distribution Apparatus School & Conference can be sent by mail, fax or on-line. **Payment can be made with check, purchase order, or credit card**. Invoicing available upon request. **Credit Card payment is only accepted with on-line registration**. Exhibitor Registration Information available on school website.

www.utilitytech.org

Registration Fee

Student	\$ 395
One Day Only Student	\$ 195
Displaying Exhibitor	\$ 525
Hosting Exhibitor	\$ 325
Additional Exhibitor	\$ 195
Presenters	No Charge

Annual Dinner & Casino Royale

There will be a School Dinner on Wednesday evening. After dinner, enjoy an evening at Casino Royale in the Ballroom. Network with your peers while playing blackjack, craps, roulette or Texas hold'em.

Four Modules of Classes

Module 100: Fundamentals of Distribution System Apparatus*

Coordinators: Freddy Morgan, Marietta Power; Lonnie Whitley, Satilla REMC; John Moore, Coweta-Fayette EMC

This module provides instruction in basic distribution apparatus theory and application. Students will learn electrical fundamentals and power theory along with how the equipment works. This session should be attended by those who need to gain a better understanding of the components in an electrical distribution system. This module will help the student establish a good foundation for future classes.

Module 200: Principles & Applications of Distribution System Apparatus*

Coordinators: Greg Seagraves, Independent; Scott Johnson, Georgia Power Company

Module providing a more in-depth look of the individual distribution apparatus equipment used in the substation and on the distribution feeders. The sessions will emphasize why the equipment is used and how the equipment functions. Distribution equipment included in sessions will be regulators, breakers, transformers, capacitors, arresters, and reclosers along with classes on system protection.

**Module 100 & 200 will be combined for this school year.*

Module 300: SCADA and Communications

Coordinators: Mary Hester, Intelligent System Solutions; Nicole Sullivan, Patterson & Dewar Engineers; Robbie Young, Snapping Shoals EMC

This module provides instruction on the principles and equipment of a SCADA system used for the monitoring and control of an electrical distribution system. Includes session in Cybersecurity, DNP3 Applications, NERC CIP-014 Requirements, Feeder Automation, Fiber Optics, MPLS and Tetra for Utilities.

Module 400: Engineering Topics & Emerging Technology

Coordinators: Brian Chandler, City of Troy Utilities; Joe Schatz, Southern Company Services; Darren Crews, Okefenoke REMC

This module will examine the initiatives and engineering applications of electric utilities. Session topics will include Grid Architecture, Stray Voltage, Multi-Utility GIS, Grid Resiliency, Reliability & Restoration, Sensors & Analytics, MicroGrid Projects and Transformer Testing. You will be able to learn about new field technologies such as Augmented and Virtual Reality. Also will be an in-depth discussion on Power Quality issues and solutions of the electrical distribution system.

Exhibit Hall

Coordinators: Jack Kelley, Tri-State Utility Products; Chip Kanour, Utility Specialists, Inc.; Chris Crawford, Superior Power Products

Contact Information

Utility Technology Education

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Southeastern Distribution Apparatus School & Conference

Module 100	Module 200	Module 300	Module 400
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Monday

10:00 - 4:00	Registration
1:30 - 1:45	General Session
1:45 - 2:30	<i>Keynote Speaker</i> Ron Chebra, <i>EnerNex</i> Advanced Technologies Tailored for the Field Personnel
2:30 - 3:00	Networking Refreshment Break
3:00- 4:00	Jeremiah Talmantes, <i>Red Team Security</i> White Hat Hacking: Full-Force Red Teaming & Tradecraft
4:00 - 5:30	Hospitality / Exhibit Hall

Tuesday

8:30 - 10:00	Protective Grounding	SCADA Principles	Grid Architecture: Discipline, Insights, and Recent Results
10:00 - 10:30	Networking Refreshment Break in Exhibit Hall		
10:30 - 12:00	Protective Grounding - Continued	Cybersecurity and the Role of the Alabama Fusion Center	Understanding Stray Voltage
	Lunch		
1:00 - 2:30	Application of Voltage Regulators & Capacitors	Protocols, Standards & DNP3 Applications	Multi-Utility GIS - Huntsville Utilities
			Feeder Automation - Self Healing
2:30 - 3:00	Networking Refreshment Break in Exhibit Hall		
3:00 - 4:00	Substation Breakers	Gateways, RTU's and IED's	Grid Resiliency, Reliability, and Restoration
4:00 - 5:30	Hospitality / Exhibit Hall		

Classes are open to all attendees and exhibitors

Southeastern Distribution Apparatus School & Conference

Module 100	Module 200	Module 300	Module 400
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Wednesday

8:30 - 10:00	Recloser & Fuse Coordination	Communication Trends in Utility Operations	NREL Project INTEGRATE
		MPLS Applications	
10:00 - 10:30	Networking Refreshment Break in Exhibit Hall		
10:30 - 12:00	Distribution Transformer Connections	TETRA for Utilities	EPRI Data Mining Initiative
		Utility Security - Understanding NERC CIP-014 Requirements	
	Lunch		
1:00 - 2:30	System Protection	Fiber Optics Theory & Hands-On Applications	Mobile Computing Devices in Distribution Engineering
			Value of Electrical Testing of Power Transformers
2:30 - 3:00	Networking Refreshment Break		
3:00 - 4:00	Overvoltage Protection	Fiber Optics Theory & Hands-On Applications - Continued	Georgia Tech - Center of Distributed Energy
5:00 - 6:00	Annual Dinner		

Thursday

8:30 - 10:00	Power Quality Issues and Solutions
10:00- 10:30	Networking Refreshment Break
10:30 - 12:00	Power Quality Issues and Solutions - Continued
12:00	Closing Session



Advancing utility technology
through educational
schools and conferences

Opening Session

Ron Chebra
Enernex

Advanced Technologies Tailored for the Field Personnel

Technology innovations are now taking foothold, utility field personnel are equipped with advanced tools that can bring greater access to information, improve safety and empower the worker with knowledge to better do their job. Laptop computers have been a mainstay for the mobile workforce, but now hardened tablets and smartphones equipped with creative applications are able to directly access real-time data, giving personnel timely and accurate knowledge that can help them assess situations, diagnose root cause problems and to even allocate and order replacement assets with greater speed. These standard work tools are now being adapted to include “Augmented Reality” devices such as see-through glasses, heads-up display units, and other visualization tools that will enable workers to overlay image information while looking at the physical assets. These are unlike “Virtual Reality” headsets that only allow a user to see computer generated images. These AR tools are now being tested and used by leading utilities to help field crews rapidly assess conditions especially when they are facing areas with significant damage. Imagine being able to see images of pre-damage conditions superimposed over the live current state, accurately identify replacement assets and being able to rapidly access inventory to allocate them automatically.

Many utilities are also incorporating drones to assist in field inspections. Staff can now fly over lines, poles and other areas to gain a new perspective. Using trained and qualified staff to operate these unmanned aerial vehicles (UAV) to do close up inspection of insulators, switches and transformers can save time, reduce risks and improve the ability to diagnose and resolve problems.

The technology tools that are being used will be covered; case studies of utilities who are using these tools will be presented and areas where they have proven these benefits will be discussed.

White Hat Hacking: Full-Force Red Teaming & Tradecraft

Instructor: Jeremiah Talmantes, Red Team Security

What is Full-Force Red Teaming? Why does it make sense for many organizations, in any industry, large or small? This presentation is intended to show the process, tools, tricks and techniques that go into a full Full-Force Red Team Operation. Please join us for an interactive presentation while we walk through an Operation showing and in some cases demonstrating: door breach tools, lock picking, surveillance drones, RFID cloners, USB tools, persistent backdoor hardware, social engineering props/tactics and whatever else we can fit in the door.

Module 100 / 200: Principles & Applications of Distribution System Apparatus

Protective Grounding

Instructor: Steve Blume, Applied Professional Training

This class gives a comprehensive understanding of the theory and practice of safe electrical grounding principles as it relates to the individual. There will be discussion on the OSHA requirements, understanding ground potential rise, touch and step potential, and vehicle safety along with applications, principles and procedures related to grounding.

Application of Voltage Regulators & Capacitors

Instructor: Bob McFetridge, AMSC

Explanation of why voltage regulators are needed and how they work. Topics include the placement of regulators, settings, and effects on the distribution system. Class will cover safety considerations of voltage regulators. Also a discussion on why capacitors are used in the distribution system and how they work. Defines terms such as working power, non-working power and power factor. Also, how they work in conjunction with regulators which also affect system voltage.

Substation Breakers

Instructor: Amir Zalloun, ABB

This class will include common functions, types, how breakers work and why the equipment is used. Learn about protection schemes, protective relays and how to bypass breakers. Learn about the different interruption mediums such as oil, SF6 or vacuum. Discusses testing, inspection & sampling practices. Students will learn about the components of dissolved gas analysis testing.

Recloser Coordination

Instructor: Vincent Marec, G&W Electric Company

Covered in this class will be single and three phase reclosers. How they operate and how they are used on the distribution system. Understand how they coordinate with other devices for overcurrent protection along with key differences between electronic reclosers and hydraulic, and the pros and cons of both. Session will cover modern recloser design and controls.

Transformers Connections

Instructor: Jason Waters, Georgia Power

Discussion in this class will include components and internal workings of a transformer. Covers how a transformer works and how it is used on the distribution system. Learn the meaning of transformer polarity and how to easily hook up transformer banks using the Arrow System.

System Protection

Instructor: Keith Hardt, Pungo Engineering Services

Study of power system faults and application of relays for power system protection. Covered in this class will be station protection, feeder protection

and some distribution automation schemes. Also the coordination between devices with isolation and restoration techniques.

Overvoltage Protection

Instructor: Joe Hall, Georgia Power

Covers how arresters work and their use in the distribution system. It introduces the student to how lightning and other causes create overvoltage on the system. We also introduce the student to the concepts of BIL (Basic Insulation Level) ratings of equipment / hardware. We discuss the importance of properly grounding the system to make arresters operate properly.

Module 300: SCADA and Communications

SCADA Principles

Instructor: Michael Thesing, Patterson & Dewar Engineers

A Supervisory Control and Data Acquisition (SCADA) system is a proven step toward greater reliability and situational awareness of an electrical network – big or small. It also provides a firm foundation from which both basic and complex applications can grow to enable more efficient grid operation and faster recovery from problems. This session will cover the fundamental components of a modern electric utility SCADA system, industry best practices, and how the SCADA system forms the basis for Smart Grid functions.

Cybersecurity and the Role of the Alabama Fusion Center

Instructor: Mike Trotter, ALEA - Alabama Fusion Center

This session will include an overview of the Alabama Fusion Center, its various roles within the homeland security sector and specifically, what it is doing to promote proper cybersecurity practices and combat cybercrime. Mike Trotter, a criminal investigator with the Alabama Law Enforcement Agency – Alabama Fusion Center, will be presenting this block of instruction. Mike has been in law enforcement for over 25 years and is a member of the United States Secret Service, Electronic Crimes Task Force and the Federal Bureau of Investigation, Cybercrime Task Force.

Protocols, Standards, and DNP3 Applications

Instructor: Jake Brodsky, Jacobs

Protocols define the rules by which devices talk with each other, and DNP3 is a protocol for transmission of data from point A to point B using serial and IP communications. It has been used primarily by utilities such as the electric and water companies, but it functions well for other areas. This session will cover many aspects of the DNP3 protocol. Topics include certification efforts, setting timeouts, coordinating address space, counting accurately and synchronously, statistics, static vs. event polling. This session will also include a discussion on the future of the DNP3 protocol. Jake Brodsky is the current chair of the DNP3 Users Group.

RTU's, IED's, and Gateways

Instructor: TBD

The class will discuss in depth the functions and applications of remote terminal units (RTU), Intelligent Electronic Devices (IED) and substation gateways.

Communication Trends in Utility Operations

Instructors: Chuck Newton, Newton-Evans

Research

Since 1978, Newton-Evans has been conducting business-to-business survey research for both multi-client and proprietary studies focused on energy industry automation, information technology, and infrastructure topics such as Smart Grid, or more appropriately, grid modernization. The latest findings from the Newton-Evans Research Company study of control systems used in the electric power industry point to heavy reliance on IP/MPLS networks for wide area communications from substations and other field locations to central site control systems. The results of this survey will be discussed in this session.

MPLS Application

Instructor: Daniel Bertovic, Georgia

Transmission Corporation

Learn about how Georgia Transmission converted their frame relay communication network to a multi-protocol label switching (MPLS) network. Topics will include the project details, challenges, and best practices.

TETRA for Utilities

Instructor: Randy Shepard, Diverse Power

The presentation would include a discussion of the TETRA (Terrestrial Trunked Radio) standard. The regional radio network currently deployed in Georgia will be presented. Topics would include the use of TETRA for push to talk radio in the utility industry. Other applications include: SCADA, AVL, SMS, and email. The network has grown from a public-private partnership and currently covers approximately 50% of the state of Georgia and portions of Alabama.

Utility Security - Understanding NERC CIP-014 Requirements

Instructor: Bruce Berman, ComNet

In March of 2014, the Federal Energy Regulatory Commission (FERC) mandated the North American Energy Reliability Corporation (NERC) to create a series of Critical Infrastructure Standards (CIP) that would define "physical security risks and vulnerabilities related to the reliable operation" of the bulk power supply system. NERC-CIP-014 is intended as a model, or best practices blueprint for the guidance of not only bulk electric power providers/utilities, but also for physical security professionals to provide the most effective protection of vital outdoor-located electrical transmission and distribution assets. NERC-CIP-014 was largely created as a guideline for the protection of North American electric power substations from physical attack.

Fiber Optics Communication Theory & Hands-On Applications

Instructor: David Little, North Georgia Network; Robbie Young, Snapping Shoals EMC

Learn how electric utilities take advantage of the broadband capabilities of fiber optic communications to benefit electrical operation. Topics in this session will include the history of fiber optics, waveguides, types of fiber, cables, safety, splicing, designing fiber systems, testing and troubleshooting fiber. Learn how to splice and terminate fiber optic connections. This class will provide instruction on the proper techniques and tools used while allowing the students hands on experience in splicing and terminating fiber optics.

Module 400:

Engineering Topics & Emerging Technology

Grid Architecture: Discipline, Insights, and Recent Results

Instructor: Jeffrey Taft, Pacific Northwest National Laboratory

Grid Architecture is the application of systems architecture, network, theory and control engineering to the electric power grid. It provides the top level view of the whole grid; it enables reasoning about the grid's properties, behavior, and performance by focusing on structure., which sets the essential limits on what complex systems like the grid can and cannot do. Grid Architecture identifies legacy structural constraints, determines the structural changes needed to relieve these constraints and enable new capabilities, identifies platforms, informs interfaces, and shapes everything from grid communications and control to industry interactions and market products and even convergence with other infrastructure networks.

This presentation will introduce the basic concepts and approaches of Grid Architecture, followed by discussion of how it is being applied today. Finally, the presentation will describe some of the practical results of recent work and how they are being applied to deal with the issues of grid modernization, operational communications, DER integration, resilience, and cyber security, especially at the distribution level.

Understanding Stray Voltage

Instructor: Jerry Josken, UC Synergetic

This presentation will provide a thorough understanding of stray voltage. Topics will include electrical fundamentals, effects of electricity on biological objects, grounding, causes of stray voltage along with mitigating stray voltage.

Multi-Utility GIS - Huntsville Utilities

Instructor: Bill Dailey, Huntsville Utilities

Huntsville Utilities has built and maintains a multi-participant GIS system that serves the Gas, Water, Electric and Fibers departments within the company (both engineering and operations). The utility also perform in-house orthophoto base mapping

conversions with the actual costs being shared with other government entities within the county. Discussion will also include how the utility will be providing fiber to the home.

Feeder Automation - Self Healing

Instructor: James Layton, Carroll EMC

Carroll EMC began deploying a feeder automation system in 2013. This presentation will provide an overview of the project to date and will cover best practices found by the utility.

Grid Resiliency, Reliability, and Restoration

Instructor: John Eddins, Theorem Geo

Associates

This session will be discussing Theorem Geo's Storm Suite tool. Theorem Geo has developed a software suite that will help utilities more quickly, safely and efficiently predict, plan and manage storm preparation and response. They have a desktop platform that can do weather analytics and modeling that a utility management team would use along with various apps to help the utility select the best staging sites, get the right people to their places and coordinate the activities once they begin the restoration efforts. Based on actions on the desktop, responders with the storm cell applications can more safely and efficiently get the right people to the right places while analyzing their environments in real time to best ensure their safety.

NREL Project INTEGRATE

Instructor: Shailendra Grover, OMNETRIC Group

The U.S. Energy Department's National Renewable Energy Laboratory's (NREL) Project INTEGRATE is an initiative aimed at resolving the current constraints utilities face when integrating distributed general assets including renewable energy sources into the grid. NREL's Project INTEGRATE brings together CPS Energy, Duke Energy and The University of Texas at San Antonio with OMNETRIC Group and Siemens to advance the integration of large-scale, renewable, clean energy resources into the grid. Working with OMNETRIC Group and Siemens, CPS Energy installed a microgrid solution at the Joint Base San Antonio's Fort Sam Houston military post consisting of a 20 kilowatt solar PV array, 48 kilowatt hour battery, a weather station, and a Siemens microgrid controller. Demonstration tests at CPS Energy showed improved control of the new microgrid under live conditions, which enables renewable resources to be integrated more predictably.

EPRI Distribution Modernization

Demonstration Data Mining Initiative

Instructor: Doug Door, EPRI

The Distribution Data Mining Initiative is intended to validate solutions to some of the key data challenges faced by distribution system and power delivery service providers. Its purpose is to leverage collaboration between EPRI, electric service providers, and data solutions providers, including both academia and data analytics companies. The initiative members will provide real power system

datasets and supporting information to the data repository. The enhanced partnerships established as part of this initiative will foster a better understanding of industry needs, capture leading data analytic practices, transfer knowledge from industry experts, and accelerate ideas (solutions) to the market.

Applications of Mobile Computing Devices in Distribution Engineering

Instructor: Brad Baugh, *Alabama Power*

Covering the basics of the current generation of mobile computing devices, with an emphasis on Apple iPads, and their potential applications for engineers. Discussion of apps and accessories that are available commercially, as well as the current state of the development of business apps for power distribution.

Understanding the Value of Electrical Testing for Power Transformers

Instructor: Charles Sweetser, *OMICRON*

This presentation focuses on how diagnostic techniques can be applied to power transformers as part of the standard condition assessment protocol. The audience will be provided with an understanding, application, and analysis of these tests, supported by specially selected case studies validating the value that these diagnostic tests bring to testing, and finally assessing, power transformers.

Georgia Tech - Center for Distributed Energy

Instructor: Deepak Divan, *Georgia Tech*

The Center for Distributed Energy (CDE) has been established at Georgia Tech to do advanced research and to develop technologies and holistic solutions that can transform electricity delivery and utilization. Research areas include power conversion, industrial applications, energy conservation, distributed energy resources, distributed control of the grid, security and communications in energy, as well as microgrids, dc nanogrids and energy access for emerging markets. CDE partners include utilities, industry, manufacturers, research organizations, start-ups, VCs and other academic institutions with interests in aligned areas. In addition to doing traditional forward-looking cutting-edge academic research, CDE is uniquely focused on accelerating and de-risking technologies so that they can see faster adoption and higher impact.

Closing Session

Power Quality Issues and Solutions

Instructors: Pat Coleman, Don Chancy, *Alabama Power*

This class will provide an introduction to power quality. We will focus on typical problems that are associated with low power quality. Also in this module, we will separate “power quality” from “bad engineering” while providing numerous examples of each. Power quality topics discussed include voltage drop, harmonics, capacitor switching, grounding, and others.

Student & Presenter Registration Form

About Utility Technology Education

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Cancellations

Notification of cancellation must be submitted in writing to:

Utility Technology Education
4711 Peachtree Industrial Blvd
Suite 100
Lake Berkeley, Georgia 30092

Refunds, less a \$50 administrative fee, will be made for all cancellations received in writing before September 4th, 2017. No refunds will be made after that date. A substitution of attendees may be made by notifying Utility Technology Education prior to the conference.

Southeastern Distribution Apparatus School & Conference September 18th - 21st, 2017 The Hotel at Auburn University, Auburn, Alabama

First Name Last Name

Badge Name (if different from above)

Title

Company

Address

City State Postal / Zip

Work Phone Mobile Phone

Email

Registration Fees

_____ \$395 **Student** - Fee includes Conference Notebook, Lunch on Tuesday and Wednesday, Dinner on Wednesday, Networking / Hospitality Breaks, and Admission to Exhibit Hall.

_____ \$195 **One Day Student** - Fee includes Conference Notebook, Lunch on one day, Networking / Hospitality Breaks, and Admission to Exhibit Hall.

_____ N/C **Presenter** - No Charge - All Presenters Must Register

\$ _____ Total Payment

Register by September 4th, 2017

Late and Onsite Registration are subject to an additional charge of \$50.

Register On-Line at

www.utilitytech.org

Payment

Check payable to **Utility Technology Association** enclosed for \$ _____

Please Invoice _____ Purchase Order Number _____

Credit Card Payments accepted only with On-Line Registration (VISA, MasterCard, and American Express)

Return Registration Form To

Utility Technology Education
Suzanne Powell
4711 Peachtree Industrial Blvd, Suite 100
Lake Berkeley, Georgia 30092

or

Fax Registration Form To
Fax (770) 662-0277

Please email questions to suzanne@utilitytech.org or contact **Suzanne Powell** at (770) 519-1676