



CONFERENCE PROGRAM



17TH ANNUAL

# Electrical Safety, Reliability and Sustainability

CONFERENCE & EXHIBITION



May 3–5, 2014

Arizona Grand Resort & Spa  
Phoenix, Arizona

- Learn about the latest electrical market trends and opportunities at the **ONLY** electrical conference that focuses on safety, reliability and sustainability
- Meet the industry's experts in reconditioning electrical equipment
- Fine tune your management skills
- Hear about the importance of maintenance in keeping equipment safe and operational
- Expert technician training offered for Low and Medium Voltage Disconnect Switches

SPONSORED BY:



877-287-3275 ■ [www.electricalsafetyandreliability.com](http://www.electricalsafetyandreliability.com)

## 2014 CONFERENCE AGENDA *(subject to change)*



### SATURDAY, May 3, 2014

9:45 am – 11:45 am	<b>SITE TOUR ▪ Western Electrical Services</b> Bus departs Arizona Grand Resort & Spa at 9:45 am ▪ Bus returns to Arizona Grand Resort & Spa by around 11:45 am	
1:00 pm – 6:00 pm	<b>GOLF TOURNAMENT</b> Arizona Grand Golf Course – tee times start at 1:00 pm	
1:00 pm – 6:00 pm	<b>TOMCAR TOUR</b> Bus departs Arizona Grand Resort & Spa at 1:00 pm ▪ Bus returns to Arizona Grand Resort & Spa by around 6:00 pm	
7:00 pm – 8:00 pm	<b>MEET &amp; GREET AT RUSTLER'S ROOSTE</b> ▪ <i>sponsored by RS Electrical Supply, Inc.</i> Rustler's Rooste is a 10 minute uphill walk from the Arizona Grand Resort & Spa. Courtesy van service is provided, based on availability, by Arizona Grand Resort & Spa	

### SUNDAY, May 4, 2014

8:00 am – 9:00 am	BREAKFAST – <i>sponsored by Astro Controls, Inc.</i>	
8:00 am – 6:00 pm	<b>EXHIBITS OPEN</b> ▪ Visit all exhibitors and be eligible for \$500 cash prize	
9:00 am - 9:15 am	<b>WELCOMING REMARKS</b> Stephen Reames, Oregon Breakers, Inc., PEARL President	<b>PEARL Training</b> (classroom 9:00am-4:00pm at Arizona Grand Resort & Spa) <i>Low-Voltage Circuit Breaker Retrofitting</i>
9:15 am - 10:15 am	<b>KEYNOTE: 70E and Fuses</b> Mike Lang, Mersen	
10:15 am – 10:45 am	BREAK – <i>sponsored by The Electrical Advertiser</i>	
10:45 am - 12:00 pm	<b>Commanding Respect</b> Leanne Edwards, Leadership Management International, The Renaissance Group	<b>PEARL Training</b> (continued)
12:00 pm – 1:00 pm	LUNCH	
1:00 pm – 2:15 pm	<b>Gaining Accountability</b> Leanne Edwards, Leadership Management International, The Renaissance Group	<b>PEARL Training</b> (continued)
2:15 pm – 2:45 pm	BREAK – <i>sponsored by Instel Power Products, Inc.</i>	
2:45 pm – 3:45 pm	<b>Strategic Planning</b> Norm Wolstein, The Hayes Group International	<b>PEARL Training</b> (continued)
4:30 pm – 6:00 pm	<b>OPENING RECEPTION</b> – <i>sponsored by ROMAC</i> Hors D'oeuvres & Beverages ▪ Cash Prize Giveaway ▪ Appearance by Arizona Cardinals Cheerleaders	

### MONDAY, May 5, 2014

8:00 am – 9:00 am	BREAKFAST	
9:00 am – 10:00 am	<b>Electronic Communications and Contractual Implications</b> Alan M. Mirman, Esq. Mirman, Bubman & Nahmias LLP	<b>PEARL Training</b> (hands-on 9:00am – 4:00pm at Western Electrical Services, Inc.) <i>Low-Voltage Circuit Breaker Retrofitting</i> Shuttle departs Arizona Grand Resort & Spa at 8:45 am Shuttle returns to Arizona Grand Resort & Spa around 4:15 pm
10:00 am – 11:00 am	<b>Guideline on Maintenance of Electrical Systems</b> Dave Shanahan, CSA Group	<b>PEARL Training</b> (continued)
11:00 am – 11:15 am	BREAK – <i>sponsored by P&amp;F Supply Co.</i>	
11:15 am - 12:00 pm	<b>PEARL Technician Certification</b> Doug Powell, National Switchgear Systems, Inc.	<b>PEARL Training</b> (continued)
12:00 pm – 1:00 pm	LUNCH	
1:00 pm – 2:00 pm	<b>Standards Use by Electrical Contractors</b> Howard Herndon, SouthWest Electritech, Inc.	<b>PEARL Training</b> (continued)
2:00 pm – 2:15 pm	BREAK	
2:15 pm – 3:15 pm	<b>Circuit Breaker Vibration Analysis</b> John Cadick, Cadick Corporation	<b>PEARL Training</b> (continued)
3:15 pm – 4:30 pm	<b>PEARL MEMBERSHIP MEETING</b>	
4:30 pm – 6:00 pm	<b>CLOSING RECEPTION AND AWARDS PRESENTATION</b> – <i>sponsored by Circuit Breaker Sales, Inc.</i> Hors D'oeuvres & Beverages ▪ Raffle Drawing ▪ PEARL Member of the Year Award ▪ Introduction of Board of Directors	



MAY 3-5, 2014 ■ ARIZONA GRAND RESORT & SPA ■ PHOENIX, ARIZONA



**KEYNOTE**

*Sunday, May 4 ■ 9:15-10:15am*

**70E and Fuses**

Mike Lang, Principal Field Engineer, Mersen

Mike Lang is the Principal Field Engineer for Mersen, a recognized leader in surge protection, arc flash protection and general electrical safety. As leader of the arc flash team he has participated in over 1,000 arc flash tests in Mersen's high power test lab. He was a member of the Research, Test and Planning Committee for the IEEE/NFPA Collaboration on Arc Flash Research and currently serves on the Technical Advisory Committee. He has co-authored several IEEE papers and was awarded the 2011 I&CPS Ralph H. Lee Department Prize Paper Award for his work on 208V arc flash research.

Highlights will include: ■ NFPA 70E 2012 Maintenance Requirements ■ Why Fuses Must be Maintained ■ Fuse Operation ■ Fuse Issues



**PEARL TRAINING**

*Sunday, May 4 ■ 9:00am-4:00pm (located at Arizona Grand Resort & Spa)*  
*Monday, May 5 ■ 9:00am-4:00pm (located at Western Electrical Services, Inc.)*

Technicians that attend this two-day training session will learn the principles of retrofitting a new protective trip system onto a low-voltage, air frame power circuit breaker. The technician will also learn how to test the retrofitted protection system.

During the first day's classroom session, each technician will learn the principles of operation of a modern protective system. The technician will learn in detail the operation of each major retrofit component. The important points of installing, adjusting and testing the retrofit trip system will also be covered.

The second day's session will be hands-on where the attendees will break up into groups and each group will retrofit a breaker with a new protective system. The technicians will then learn how to test the retrofitted breaker using the appropriate PEARL standards. A variety of tests will be done including, insulation resistance, contact resistance and primary current injection. All the standard protective functions such as Long Time, Short Time, Instantaneous and Ground Fault will be tested. The technicians will also test for proper Current Transformer polarity.

Each attendee will receive a "Low-Voltage Circuit Breaker Retrofitting" certificate upon successful completion of the two day training.

**SITE TOUR**

*Saturday, May 3 ■ 9:45-11:45am*

Western Electrical Services, Inc. specializes in electrical testing, electrical engineering, sales, repair, upgrade and life extension services of circuit breakers, switchgear, motor control and transformers. Plan to tour the facility and visit with Western Electrical Services, Inc.'s management team.

Bus departs Arizona Grand Resort & Spa at 9:45am and returns by around 11:45am.



**GOLF TOURNAMENT**

*Saturday, May 3 ■ 1:00-6:00pm*

Arizona Grand Golf Course sets in the carefully preserved Sonoran Desert and has been awarded Four Stars by Golf Digest. The course blends traditional links with ultimate desert golf, suitable for players of all skill levels. Tee times start at 1:00pm. Best ball format with prizes awarded for longest drive, longest putt made, closest to the pin and low team gross. \$100 fee includes green fee, cart, range balls and box lunch. Golf course is located at resort.



**TOMCAR TOUR**

*Saturday, May 3 ■ 1:00-6:00pm*



Experience the Sonoran Desert in a Tomcar, an off-road vehicle originally designed for military use. On your tour you may see javalinas, desert mule deer, coyotes, rattlesnakes and others. You will be taken to some of the following attractions: ■ Indian Ruins ■

Rare Fresh Water Spring ■ 360 Degree Views of Beautiful Mountain Vistas ■ River Crossing (when there is running water!)

Bus departs Arizona Grand Resort & Spa at 1:00pm and returns by around 6:00pm. Actual Tomcar Tour is about 3 hours rain or shine.



**MEET & GREET**

*Saturday, May 3 ■ 7:00-8:00pm (at Rustler's Rooste)*

Venture to Rustler's Rooste, Arizona's legendary steakhouse situated atop a butte of the South Mountains, with a spectacular panoramic view of the valley below. Meet new PEARL members, reacquaint with current PEARL members and network with potential PEARL members. Light snacks and refreshments will be provided.

Rustler's Rooste is a 10 minute uphill walk from the Arizona Grand Resort & Spa. Courtesy van service is provided, based on availability, by Arizona Grand Resort & Spa.

Sponsored by RS Electrical



**EXHIBITS**

*Sunday, May 4 ■ 8:00am-6:00pm*

Take in the latest and greatest of products, services and information available. Visit all exhibitors throughout the day and be eligible for a \$500 cash prize.

**OPENING RECEPTION**

*Sunday, May 4 ■ 4:30-6:00pm*

Connect with your business peers, establish new contacts and enjoy cocktails and hors d'oeuvres in a relaxed environment at the Arizona Grand Resort & Spa. Guest appearance from members of the Arizona Cardinals cheerleaders.

Sponsored by ROMAC



**CLOSING RECEPTION & AWARDS PRESENTATIONS**

*Monday, May 5 ■ 5:00-6:30pm*

Plan to attend as special recognition is given to those who have excelled in their field. Welcome PEARL's new Board of Directors and Executive Officers, as you enjoy hors d'oeuvres and cocktails.

Sponsored by Circuit Breaker Sales Co. Inc.





17th Annual Electrical Safety, Reliability and Sustainability Conference & Exhibition

4255 South Buckley Road, #118 Aurora, CO 80013



May 3-5, 2014

Arizona Grand Resort & Spa Phoenix, Arizona

877-287-3275 ■ www.electricalsafetyandreliability.com



NEW MEMBER BONUS

Not a member of PEARL yet? Up to 100% of your conference registration fee will be credited towards your first year's PEARL membership if signed up within 30 days of end of conference.

HOTEL RESERVATIONS

Room rates for participants are \$209.00 single/double occupancy, plus applicable taxes. Call (877) 800-4888 or (602) 438-9000 by Friday, April 11, 2014 and mention "Electrical Safety" to receive your special room rate. After April 11, 2014 reservations and rate are subject to availability. Early reservations are recommended as rooms may sell out prior to April 11, 2014.

Arizona Grand Resort & Spa 8000 S Arizona Grand Parkway, Phoenix, AZ 85044 Phone: (602) 438-9000 ■ Reservations: (877) 800-4888

Arizona Grand Resort & Spa is conveniently located just six miles from Phoenix's Sky Harbor International Airport (PHX).



RENTAL CAR

Avis Rent-A-Car is offering special rates for all attendees of the Electrical Safety, Reliability and Sustainability Conference and Exhibition. For reservations call your preferred travel agent or call Avis at 800-331-1600 or access www.avis.com. Mention AWD #J992312 to receive these rates.

CONFERENCE REGISTRATION Register Early and Save \$100

NAME \_\_\_\_\_

PROFESSIONAL TITLE \_\_\_\_\_

COMPANY \_\_\_\_\_

ADDRESS \_\_\_\_\_

CITY \_\_\_\_\_ STATE \_\_\_\_\_ ZIP \_\_\_\_\_

COUNTRY \_\_\_\_\_

E-MAIL \_\_\_\_\_

PHONE \_\_\_\_\_

FAX \_\_\_\_\_

CREDIT CARD PAYMENTS (AMEX, Discover, Mastercard and Visa accepted)

CARD # \_\_\_\_\_ SECURITY CODE \_\_\_\_\_

SIGNATURE \_\_\_\_\_ EXPIRES \_\_\_\_\_

PRINTED NAME \_\_\_\_\_

CHECK ALL THAT APPLY:

- Input boxes for registration options: PEARL Member, Non-Member, Training Only, Spouse/Guest Day Pass, Western Electrical Services Tour, Tomcar Tour, Golf at Arizona Grand Golf Course.

TYPE OF FIRM: Check one

- Input boxes for firm types: Industrial Facility, Processing, Utility, Municipality, Electrical Field Service, Electrical Engineering, Electrical Contractor, Electrical Distributor, Electrical Surplus Dealer, Other Equipment Dealer, Military, Government Facility, Other.

EVENT CODE (if applicable) [ ] TOTAL AMOUNT DUE [ ]

FAX, MAIL or E-MAIL registration form to:

17th Electrical Safety, Reliability and Sustainability Conference & Exhibition 4255 S Buckley Rd #118, Aurora, CO 80013 Fax: (888) 996-3296 E-mail: pearl@pearl1.org

Cancellations on or before April 3, 2014 are fully refundable. Cancellations after April 3, 2014 are non-refundable, however substitutions are allowed.