See you in the Golden Land of Promise

Plan your PowerTest 2017 schedule

- Choose your sessions
- See exhibitor previews
- Make the most of PowerTest 2017
California became the 31st state of the Union in 1850; at the time, it was not the fertile and diverse land it is today. Cattle ranching and gold mining drove the economy and culture. It wasn’t until the turn of the century that Southern California’s destiny would be ignited by San Diego’s Panama-California Exposition of 1915, which promoted a vision of the American Southwest and Southern California as a region of Edenic abundance. San Diego would be only the first in a long series of cities building irrigation societies.

The California Aqueduct opened in 1913, bringing water from the Sierra Nevada Mountains over 230 miles to Los Angeles and the entire southland region. This, combined with the expansion of the Pacific Electric Railway, spurred Southern California toward becoming the Golden Land of Promise.

Vision, ingenuity, resourcefulness, and purpose are the qualities of Southern California that PowerTest 2017 draws on as we come together to strengthen our industry, expand our knowledge, and improve the quality, safety, and reliability of electrical power systems.

Keynote Speaker Todd Conklin, Ph.D., Los Alamos National Laboratory
Dr. Conklin is a Senior Advisor to the Associate Director at Los Alamos National Laboratory, where he has served for the last 15 years in the Human Resource and Reliability Management and Training arena with an emphasis in Organizational Development and Human Reliability. His book, Simple Revolutionary Acts: Ways to Revitalize Yourself and Your Workplace, helps readers become a positive deviant in the workplace in a fun way. He may be recognized as a guest host on National Public Radio’s All Things Considered and Morning Edition.

Dr. Conklin has a B.A. in Communication from Southwestern College; an M.A. in Interpersonal Communication from Fort Hays State University; and a Ph.D. in Organizational Communication from the University of New Mexico.
DAY 1  Monday

We’ve gathered leaders in the industry and will stage a full day of engaging, 45-minute presentations sure to expand your thinking and generate new ideas. Choose from 27 detailed presentation track topics.

TECHNICAL PRESENTATIONS

ELECTRICAL SAFETY

• Improving Human Performance
  D. Ray Crow, DRC Consulting Ltd.

• Electrical Safety for Contractors (Multi-Employer) Working in Industrial Facilities
  Dennis Neitzel, AVO Training Institute, Inc.

• Guarded or Unguarded and Why It Makes a Safety Difference
  Jim White, Shermco Industries

• Application of Work Flow Process in an Electrical Safety Program
  Terry Becker, ESPS Electrical Safety Program Solutions Inc.

• Human Performance Best Practices in Electrical Safety
  Mike Doherty, eHazard

• Design, Implementation, and Testing of Arc-Flash Mitigation on Low- and Medium-Voltage Systems
  Christopher Inshaw, Southwest Energy Systems, LLC

PROTECTIVE RELAYS

• Testing High Magnitude Faults on a Transmission Line Using COMTRADE Records: A Case Study
  Mohit Sharma and Vijay Sundaram, Megger

• Testing Protective Relays – A Procedural Review
  John Cadick and Jefferson Bronfeld, Cadick Corporation and Dennis Moon, AVO Training Institute, Inc.

• Influence of Non-Linear Loads on Generator Differential Protection
  Vijay Sundaram and Dhanabol Mani, Megger

• Understanding Basic High Speed Tripping and Communications (Basics of Tone and Carrier Schemes)
  Jay Garnett, Doble Engineering Company

• End-To-End Testing Methods Compared
  Christopher Pritchard and Will Knapek, OMICRON electronics Corp. USA

• Man-Made Faults – Line Protection Operation for an Unintended Phase Cross-Connect Condition
  Ryan McDaniel, Schweitzer Engineering Laboratories, Inc.

EQUIPMENT & RELIABILITY

• How Vacuum Interrupters Work and How They Fail
  Finley Ledbetter, Group CBS, Inc.

• Commissioning of Plant Electrical Systems Using Distributed Testing
  Randall Sagan, MBUSI

• Commissioning of Plant Electrical Systems Using Distributed Testing
  Mose Ramieh III, PG&E, a CE Power Company
  Will Knapek, OMICRON electronics Corp. USA

• Primary Current Injection Testing: Then and Now
  Robert Probst, Megger

• How to Choose the Right Power Monitoring Tools
  Ross Ignall, Dranetz Technologies

• Making Reliability Lean & Mean
  Noah Bethel, PdMA

• Grounding Fundamentals That Help Avoid Electrical Disasters
  David Brender, Copper Development Association

POWER TRANSFORMERS

• Why Get Excited about Excitation Current Tests
  Keith Hill, Doble Engineering Company

• Understanding the Value of Electrical Testing for Power Transformers
  Charles Sweetser, OMICRON electronics Corp. USA

• Sweep Frequency Response Analysis (SFRA) and the Best Practices for Reliable Results
  Sanket Bolar and Robert Foster, Megger

• Emergency Transformer Bushing Replacement
  Mark Haas, Power Asset Recovery Corporation
  Randy Williams, ABB

• A Systematic Approach to Analyzing Exciting Current Measurements on Power Transformers
  Brandon Dupuis, OMICRON electronics Corp. USA

• Cable Fault Location Techniques when Faced with Corroded Neutrals
  Robert Probst and Jason Souchak, Megger
DAY 1 Monday (continued)

TECHNICAL PRESENTATIONS (continued)

BATTERY SYSTEMS
- Battery Testing by the Standards and Field Experiences
  Daniel Carreño-Perez and Volney Naranjo, Megger
- Station Battery Maintenance 101: What You Need to Know
  Tom Sandri, Shermco Industries
- NERC Requirements for Battery Acceptance and
  Maintenance Testing
  Steve Canale, American Electrical Testing Co., Inc.

SYMPOSIUM

Medium-Voltage Vacuum Circuit Breakers: An Industry Update
Moderator: David Huffman, Power Systems Testing Co.

Medium-voltage circuit breakers are key and integral to system
reliability and electrical power system performance, and have
been a part of the electrical landscape for many years. This
symposium will focus on medium-voltage circuit breaker
technology, both new and old, and will provide insight and
updates from medium-voltage circuit breaker subject matter experts.

5:00 PM – 6:00 PM
New Product Forum
Learn about dozens of the latest products and
innovations, major expansions by leading
industry-specific manufacturers and suppliers.

Hospitality Suites
Mingle with colleagues and a host of leaders
at Monday night’s hospitality suites. Eight
companies will offer their own brand of
hospitality with uniquely themed suites.

6:00 PM – 10:00 PM

TRADE SHOW HIGHLIGHT

The Right Instruments For Your Power
Quality & Energy Measurements

- Voltage current and power monitoring
- Harmonic detection analysis
- Inrush current analysis
- Energy cost analysis and management
- Power factor analysis and correction
- Power demand and consumption monitoring
- Transient detection and analysis
- Data logging

www.aemc.com
Chauvin Arnoux®, Inc. d.b.a. AEMC® Instruments
200 Foxborough Blvd. • Foxborough, MA 02035 USA
PHONE: (800) 343-1391 • FAX: (508) 698-2118
Osha 29Cfr1910.399 Definition of a Qualified Person:

"Qualified person. One who has received training in and has demonstrated skills and knowledge in the construction and operation of electric equipment and installations and the hazards involved."

Shermco’s Electrical Safety for Qualified Workers course meets the minimum mandated requirements of both OSHA and NFPA 70E.

Shermco’s field service technicians are required to complete this course. Shouldn’t you be training with the people who are in the field every day?

Don’t risk fines and events due to “check-the-box” training. Train with the experts. Train with Shermco
DAY 2 Tuesday (continued)

PowerTest 2017 Trade Show
The PowerTest 2017 Trade Show promises more than 100 top-tier electrical power vendors whose mission is electrical safety and reliability. Enjoy a complimentary lunch and beverages as you tour the show and make connections. The PowerTest 2017 Trade Show will take place from 12:00 PM – 5:30 PM.

PowerTest 2017 – PowerBash Reception!
A gathering you don’t want to miss. Enjoy an evening of Southern California charm, awards, and recognitions, while mixing and mingling to musical entertainment. Tuesday evening from 7:00 PM – 10:00 PM.

TRADE SHOW HIGHLIGHT

BCS SWITCHGEAR

BCS Switchgear has rapidly expanded into the Molded Case and Insulated Case industry in recent years. Our techs perform a wide range of tests ensuring that what we are sending you is in proper working order. We take it a step further and offer standard 1 year warranties on everything that ships out of our warehouse in Texas.

Our ever-growing inventory enables us to handle and deliver all of your electrical wants/needs. Our knowledgeable sales team is more than equipped to answer your questions and make sure you are well taken care of.

BCS BOOTH #427 at Power Test 2017
Anaheim, CA

www.bcswitchgear.com
**Powertest 2017**
**Spotlight Stage Presentations**

**TUESDAY 12:30 PM - 5:15 PM**

**OMICRON electronics Corp. USA**
12:30 PM - 12:45 PM
A New Approach for Testing Power Transformers

**ComRent Load Bank Solutions**
12:55 PM - 1:10 PM
Precision Commissioning to Optimize Efficiency of Critical Facilities

**Electro Rent**
1:20 PM - 1:35 PM
Power Quality and Insulation Testing including a Special Conference Program

**Megger**
1:40 PM - 1:55 PM
New Developments in Transformer Testing

**Protec Equipment Resources**
2:05 PM - 2:20 PM
The Importance of Calibration

**BCS Switchgear, Inc.**
2:30 PM - 2:45 PM
Vacuum Breaker Testing – Testing Options and the Benefit of Each

**Intellirent**
2:55 PM - 3:10 PM
Serving the Testing Contractor

**AVO Training Institute, Inc.**
3:20 PM - 3:35 PM
NEC Electrical Safety Issues Due to Misapplication or Violations

**AEMC Instruments**
3:45 PM - 4:00 PM
AEMC’s Power & Energy Loggers Monitor, Record, and Analyze Power, Energy Usage, and Costs Locally or from Anywhere in the World!

**Circuit Breaker Sales Co., Inc**
4:10 PM - 4:25 PM
From Edison to Musk, Technological Innovations in Material Science and their Impacts on Circuit Breaker Construction

**Doble Engineering Company**
4:35 PM - 4:50 PM

**WEIDMANN Electrical Technology, Inc.**
4:55 PM - 5:10 PM
The Intelligent, Secure Transformer... Featuring the WEIDMANN INSULOGIX® VAULT

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**TRADE SHOW HIGHLIGHT**

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**NEW**

**Digital DC Hipot**

**800 SERIES**

The 880PL-DC is the most modern DC hipot for testing the insulation strength of electrical apparatus. Equipped with a digital interface and extensive safety features, the 880PL-DC ensures the simplest and safest operation along with the most accurate measurements.

- Lightweight, rugged design for field use (57 lbs / 25.8kg)
- Adjustable test parameters such as target voltage, maximum leakage, ramp rate & dwell time
- 7” color, touch screen display with adjustable brightness
- Measures output voltage, leakage current, insulation resistance (IR) & polarization index (PI)

Visit us at Booth 121!

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PREMIUM SOLUTIONS IN HIGH VOLTAGE. SINCE 1904.

sales@hipotronics.com | www.haefely-hipotronics.com | 845 230 9245
### POWERTEST 2017 EXHIBITORS

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HV TECHNOLOGIES, Inc., partnered with BAUR, provides the most complete range of high voltage test equipment and service solutions available for the electrical power industries.

Cable Testing & Diagnostics
- Portable VLF hipot testers with optionally integrated tan delta
- Portable partial discharge diagnostic system

Cable Fault Location
- Accurate location of low-resistive, high-resistive, and sheath faults
- Efficient and precise pin-pointing

Insulating Oil Testing
- Dielectric breakdown up to 100 kV
- All-in-one tester for dissipation factor, specific resistance, and relative permittivity

Visit us at the 2017 Power Test Conference, Booth 219!
New Developments in Transformer Testing

Transformers are a key asset in the transmission and distribution of power to the world. Join us at PowerTest 2017 in Anaheim, California as we discuss the ever changing landscape of transformer testing and the test equipment that will help you maintain these key assets.

Visit us at booth 410 for your transformer testing solutions and join us for our Spotlight Stage Presentation “New Developments in Transformer Testing”.

us.megger.com/applications/transformers
DAY 5 Friday

Doble Laboratory Seminar 8:00 AM - 5:00 PM

The Doble Laboratory Seminar is designed for engineers, chemists, and others responsible for reviewing data to interpret laboratory results to detect and identify problems within electric apparatus. The seminar will be interactive, combining theoretical background with practical experience and hands-on examples including case studies illustrating common problems found in the field.

www.avotraining.com
or call 877-594-3156

Many AVO training courses are eligible for NETA CTD's.*

www.avotraining.com
or call 877-594-3156
SPECIAL SESSIONS AND MORE

Megger Best Practices  
**Sunday, February 26  9:00 AM - 4:00 PM**
Join us as Megger hosts a FREE Hands-On Best Practices Seminar at NETA's PowerTest 2017! Megger’s Best Practices Seminars are designed to bring you up to speed on new testing techniques and technology as well as offer the opportunity to engage in hands-on learning with expert engineers. Megger’s world-class Applications Engineers utilize their vast industry knowledge and experience to craft an in-depth program backed by Megger’s expertise in the market. This full day of quality education includes training related to key industry topics as well as two hours of hands-on instruction. You must preregister for this event by contacting Megger. To register for Megger Best Practices and view the agenda, please visit https://goo.gl/forms/m6Ljhg1ZwvL9g4153

PowerTest 2017 Dinner & Dice Harbor Cruise  
**Sunday, February 26  5:30 PM – 9:30 PM**
Join us Sunday evening for a dinner boat cruise along the western shores of southern California. Sit back and relax or trust your luck with a visit to the special themed casino night. What’s your pleasure? Music, comradery, roulette, black jack, poker, craps, and more. ($155 per person).

PowerDB User Group  
**Monday, February 27  12:15 PM – 2:15 PM**
Annual User’s Group Meeting open to licensed users of PowerDB Pro Software. Agenda will include presentations by the PowerDB Pro development team as well as utility, industrial, and contractor groups discussing how this product is an integral part of their business operations. Pre-registration is required by contacting PowerDB at 979-690-7925 ext. 702 or by registering at www.powerdb.com.

TRADE SHOW HIGHLIGHT

VACUUM REPLACEMENT INTERRUPTERS

VRI supplies Vacuum Replacement Interrupters for all types of Vacuum Circuit Breakers and Vacuum Contactors from 5-34kv. Manufactures include; GE, Cutler Hammer, Westinghouse, ABB, Siemens, etc.

Along with the full line of vacuum replacement bottles we have our VRI exclusive test set that utilizes Paschen’s Law along with a High Current injection to test the vacuum integrity of your vacuum bottles. With this data you can prepare for the unexpected, as well as keep your vacuum breakers at their best.

VRI BOOTH #522 at Power Test 2017 Anaheim, CA

ACTUAL VRI TEST KIT
Mobilize Yourself with the PowerTest 2017 Mobile App

Don’t miss a single moment of PowerTest 2017. Download the PowerTest Mobile App and get instant access to the full schedule - right at your fingertips!

- View session abstracts and speaker bios
- Customize your schedule for the events and sessions you plan to attend
- Set reminders and manage alerts
- View facility maps including Trade Show floorplan and booth information
- Rate speakers and submit feedback
- View sponsor information
- Play the NETA 45th Anniversary Photo Challenge within the mobile app. Visit powertest.org for more details.

Search PowerTest 2017 in the App Store or Google Play.
Available January 1, 2017

February 27 - March 3, 2017
Disneyland Hotel
Anaheim, California
www.powertest.org
PowerTest 2017 Early Bird Pricing

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<tr>
<td>714-520-5005</td>
<td>1150 Magic Way</td>
<td>Anaheim, CA 92802</td>
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*Once you register for PowerTest 2017, you will receive a link via email to secure your hotel reservations at the Disneyland Hotel.

Payment: NETA accepts all major credit cards. Save time and register on-line at www.powertest.org or call 888-300-6382 (NETA).

Extras: PowerTest 2017 Technical Papers – Registered conference attendees will receive all PowerTest technical presentations on a USB drive in their registration bag.

Social/Guest Pass: Includes admission to the Hospitality Suites, Trade Show, and the PowerBash reception. $60 per person. Those registered for Mon-Thurs technical sessions do not need to purchase a social pass, as it is included with registration (with exception of the PowerBash - this is an additional $25).

Easy Steps for Registration

1. Go to www.powertest.org and review the complete PowerTest 2017 on-line brochure.
2. Decide the number of days you will attend the conference.
3. Tuesday attendees select up to two panels. (Cost of panels included in the registration fees.)
4. Wednesday attendees register for up to two seminars. (Cost of seminars included if registered for Monday – Thursday.)
5. Thursday attendees register for up to two seminars. (Cost of seminars included if registered for Monday – Thursday.)
6. Register for Doble Lab Seminar. (Cost of seminar is in addition to the registration fees.)
7. Sign up for Social Passes. Social pass only needed for guests of attendees wish to attend the hospitality suites, the Trade Show, and the PowerBash Reception (Cost of passes is in addition to the registration fees.)
8. Sign up for PowerTest 2017 conference polo shirts and select size. (Cost of polo shirts is in addition to the registration fees.)
Join us at the Gaylord National Resort and Convention Center on the banks of the Potomac River, a stone’s throw from Washington, D.C., Georgetown, Arlington, and Alexandria, Virginia.

PowerTest.org
888.300.6382
Hosted by NETA.