

THE PREMIER ELECTRICAL MAINTENANCE AND SAFETY CONFERENCE

# 2022 POWERTEST<sup>®</sup>

DENVER, COLORADO + VIRTUAL

## PREVIEW GUIDE

**FEBRUARY 28 - MARCH 4, 2022**  
**HYATT REGENCY | COLORADO CONVENTION CENTER**  
**DENVER, COLORADO**

HOSTED BY

1972 **50** 2022  
**NETA**<sup>®</sup>  
50 YEARS OF SETTING THE STANDARD

**POWERTEST.ORG | 888.300.6382**



# Generating Powerful Connections for the Future

PowerTest returns spring 2022 with all-new content, networking opportunities, and more attendee options than ever before. Connect with like-minded industry professionals in-person or virtually as PowerTest hosts its first-ever hybrid event.



## POWERTEST'S FIRST-EVER HYBRID EVENT

### POWERTEST TV

Take advantage of expanded opportunities for engagement and professional development with PowerTest TV. In addition to the in-person conference hosted in Denver, Colorado, this year will also feature access to exclusive online content tailored to the needs of electrical testing professionals.



## CHEERS TO 50 YEARS

2022 marks the 50-year anniversary of NETA, and to commemorate its golden anniversary, the association has planned all-new contests, giveaways and more for in-person and virtual attendees.



## IN-PERSON HIGHLIGHTS

# Exam Prep Seminar

Back by popular demand is the NETA Certification Exam Prep Seminar. This interactive session will assist testing candidates in reviewing the NETA Detailed Content Outlines (DCOs) and other study materials, allow for questions, and offer the opportunity for attendees to participate in the newly-developed NETA Practice Exam.



# New Monday Tracks

Explore all-new sessions carefully selected and presented by leading experts in the field. As an enhancement to the 2022 conference, PowerTest is seeking to assist the industry in navigating today's challenges and identifying tomorrow's industry trends with two all-new presentation tracks: **Sales & Management** and **Renewable Energy**.

# Industry Credits

By attending the in-person conference in Denver, you can earn up to 48 NETA Continuing Technical Development (CTD) Credits and 4.8 Continuing Education Credits (CEUs).

# Keynote Speaker

## Robert Bryce

Kick-start your week at PowerTest with acclaimed author, Robert Bryce. A passionate and engaging speaker, he is also a leading thinker on global energy, power systems, and innovation. His sixth and latest book, *A Question of Power: Electricity and the Wealth of Nations*, was recently published and his affinity for energy doesn't end there – he is also the producer of a new feature-length documentary: *Juice: How Electricity Explains the World*, which was filmed in India, Lebanon, Iceland, Puerto Rico, New York, and Colorado. You won't want to miss what Robert Bryce has to share about energy and its impact around the world.



# In-Person Add-Ons

## Megger Best Practices Seminar

**Sunday, February 27**

9:00 AM - 3:00 PM

Megger's Best Practices Seminars, presented by world-class applications engineers, are designed to bring you up to speed on new testing techniques and technology as well as offer the opportunity to engage in technical discussions with our expert engineers. This full-day of quality education includes training related to key industry topics as well as some of the best practices to follow when performing offline electrical testing.

Pre-registration is required to attend this event.

## Doble Laboratory Seminar

**Friday, March 4**

8:00 AM - 5:00 PM

Doble's laboratory expert will present a full day, interactive session that combines theoretical background with practical experience. We will share case studies illustrating common problems found in the field.

Pre-registration is required to attend this event.



IN-PERSON HIGHLIGHTS



Pre-Conference Event

Kick-off a week of high-powered learning with the PowerTest 2022 Pre-Conference Event, PowerTest On Tap. Hosted at Wynkoop Brewery and sponsored by Potomac Testing and TDS, prepare for an enjoyable night of networking, food, drinks, and entertainment.

Sunday, February 27 | 5:00 PM  
Wynkoop Brewery | Denver, Colorado

Please note that while this event is open to all PowerTest attendees, preregistration is required. Tickets for the 2022 Pre-Conference Event can be purchased for \$115 each.



Hospitality Suites

Monday, February 28 | 6:00 PM  
Mingle with colleagues and industry leaders at Monday night’s hospitality suites. Hosts will offer their own brand of hospitality with uniquely themed suites and the best of food, drinks, and entertainment.

2022 Hospitality Suite Hosts



## IN-PERSON HIGHLIGHTS

1972 **50** 2022  
**NETA**<sup>®</sup>  
50 YEARS OF SETTING THE STANDARD

# Commemorate **NETA's** Golden Anniversary at the 50th Anniversary PowerBash Reception.

**Tuesday, March 1 | 7:00 PM**

Celebrate the history and look ahead to the future of the InterNational Electrical Testing Association! You and your fellow attendees are invited to join us for food, drinks, games, prizes, a DJ, a jerky wall, and more at the NETA 50th Anniversary PowerBash reception.

*Please note that while all PowerTest attendees are welcome to attend the PowerBash reception, preregistration is required. Tickets for this event can be purchased for \$50 each.*

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PROTECTION TESTING PLATFORM THAT EXPANDS AND  
ADAPTS TO FUTURE TECHNOLOGIES AND APPLICATIONS



IN-PERSON HIGHLIGHTS

TRACK PRESENTATIONS  
Monday

Equipment Track	
Timing Measurement of Dead-Tank Circuit Breakers with Both Sides Grounded	Goran Milojevic, DV Power
Battery Health and Assessment through Electrical Testing	Sanket Bolar & Volney Naranjo, Megger
I Have Tested the Bushings. What Do the Results Mean?	Mike Anderson, Doble Engineering Company
Gaps in Your Electric Motor Reliability Program	Drew Welton, Intellirent, a division of Electrorent
Importance of Phasing and Load Checking in Substation Testing and Commissioning Project	Morteza Talebi, TRC Companies
Another Approach to Performing Excitation Testing on Power Transformers	Steve Metz, Electric Power Systems
Reliability Track	
Challenges and Opportunities: How the Focus on Reliability Impacts the NETA Practitioner	Alan Ross, Electric Power Reliability Alliance
Smartly Upgrading a Facility	Kevin Maynard & Jonathan Tanweer, Potomac Testing Inc.
How Many Different Phase Angle Systems are used in the P&C world?	Chris Werstiuk, Valence Electrical Training Services
What's Changed in PQ Monitoring?	Ross Ignall, Dranetz
Using Dissolved Gas Analysis to Quantify Risk of Transformer Operation	Zachary Draper & Ginni Stieva, Delta-X Research
Review, Understanding, and Interpretation of Industry Field Test Limits on Transformers	Charles Sweetser, OMICRON electronics Corp. USA
Electrical Safety Track	
Invisible Injury Sequela	Terry Becker, TW Becker Electrical Safety Consulting Inc.
Near-Misses and Your Safety Program: Are You Really a Learning Organization?	Stephen Hester, Saber Power Field Services, LLC
Safety Performance and the Correlation to Corporate Profitability as a Contractor in the High Voltage Utility Sector	Kenneth Peterson, Hampton Tedder Technical Services
Electrical Reliability & Safety: 2 Sides of the Same Coin	Martin Robinson, IRISS
Arc Flash Hazards: The Benefits of Primary Injection Testing	Glen Wahl, Megger
Hazardous Energy Control – Common Pitfalls & How To Mitigate	Jeremy Presnal, Shermco
Sales & Management Track	
Modern Marketing Practices for Electrical Testing Services Firms	Paul Seppanen, A-Rent Test Equipment
Training Power Utility Workforce: Challenges and Opportunities	Morteza Talebi, TRC Companies
Are You Evolving or Revolving?	Tim Autrey, PPI Global
Learning How to Learn: Managing Change in the Information Age	Jason Jamil, Family First Engineering Services
How to Sell a Complete Moisture Management Program for Power Transformers	Drew Welton, Intellirent
Renewable Energy Track	
Operating Challenges at Aging Wind Projects	Kevin Alewine, Shermco
Overview of Acceptance Testing at Solar Sites	Marc Aldrich, Shermco
Preventative Maintenance Practices from O&M and Testing & Commissioning Perspectives	Ken Peterson, Hampton Tedder Technical Services
Electrial Signature Analysis at Wind Sites	Howard Penrose, MotorDoc LLC
Safety Statistics in the Wind Industry	Michelle Mihelic, American Clean Power
Improving the Reliability of MV Cables through Testing & Diagnostic Techniques for Wind Farm Applications	Charles Nybeck & Jason Aaron, Megger

PANEL SESSIONS  
Tuesday

Panel Topic
Electrical Safety
Circuit Breakers
Transformers
Relays

Please note that Tuesday morning’s lineup includes two panel sessions on each of the listed topics.

SEMINARS  
Wednesday/Thursday

Letting Go of Predictability: Engage, Empower, & Elevate Your Team	Kris McGuigan, Professional Courage
Testing and Commissioning of Instrument Transformer in The Field	Morteza Talebi, TRC Companies
Inspiring Team Members to Do ‘Right’ Things in ‘Right’ Ways (Even When No One’s Watching)	Tim Autrey, PPI Global
Cyber Security: the Effect on NETA Companies, Safety Program, and Clients and How to Respond Now and in the Future	Matthew Ellis, Sentinel Field Services, LLC
Electrical Safety by Design (High Resistance Grounding Systems)	Sergio Panetta, I-Gard Corporation
Transformer Testing Theory and Case Studies Seminar	Mike Anderson, Doble Engineering Company
Primer on Transformer Diagnostic Testing	Brandon Dupuis & Charles Sweetser, OMICRON electronics Corp. USA
Help, my customer is asking about “digital substation” testing! What is this about, what do I need to know, and what equipment do I need to test it?	Scott Cooper, OMICRON electronics Corp. USA
Vacuum Interrupter Test and Conditioning Hands-On Seminar	Finley Ledbetter, Group CBS Inc.
Frequency-Based Diagnostic Testing of Power Transformers	Dinesh Chhajer, Megger
Developing an Electrical Workforce	Tom Sandri, Shermco Industries
Hands-On Battery Maintenance and Testing	Tom Sandri, Shermco Industries
Relay Troubleshooting	Ryan McDaniel, Schweitzer Engineering Laboratories, Inc.
Exam Prep AM Session (only need to choose 1)	Dan Hook, Western Electrical Services & Jim Cialdea, CE Power
Exam Prep PM Session (only need to choose 1)	Dan Hook, Western Electrical Services & Jim Cialdea, CE Power
Electrical Testing and Maintenance of Rotating Machines	Abel Gonzalez & Sameer Kulkarni, Megger

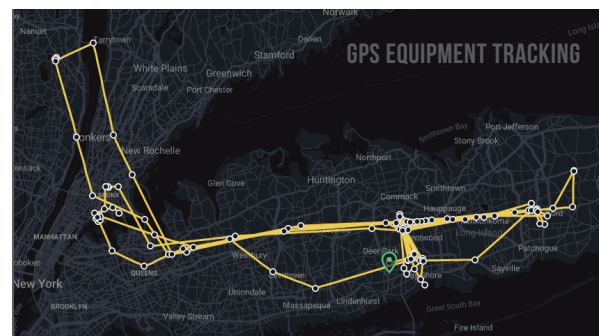


**ECP SOLUTIONS**   
OUR INNOVATION, YOUR SOLUTION

## ASSET MANAGEMENT & TRACKING

Do you need Trackability and Accountability of your Equipment?  
Are you looking for an ROI on your Equipment for Capital Purchases?  
Would you like to Maximize Utilization of your Equipment?  
Are you Spending Too Much on Rental and Shipping of Equipment?

**COME SEE ECP SOLUTIONS AT POWERTEST 2022  
BOOTH 721 / SUITE 103**



**EXTENSIVE SELECTION  
OF RENTAL EQUIPMENT**

**Megger** **FLUKE** **DRANETZ** **AEMC**  
AND MANY MORE

**NETA**  
**POWERTEST**  
CONFERENCE

- ▶ ECP Solutions will be at **Booth 721** for PowerTest 2022.
- ▶ Stop by for a demonstration of our latest Innovations.
- ▶ You can also visit ECP at our PowerTest **Suite 103** for food, drinks, laughs and more

**SCHEDULE AN APPOINTMENT FOR POWERTEST:** Lane Batson - President | Chris King - Vice President  
lane@ecpsolutions.com | chris@ecpsolutions.com

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CORPORATE ALLIANCE PARTNER

## WELCOME BACK TO POWERTEST!

Protec Equipment Resources is happy to be back in person this year, as we remain your number one source for electrical test equipment rental, sales, calibration and asset management. We offer flexible daily, weekly, and monthly lease rates with quality equipment from leading manufacturers including Doble, Megger, Omicron, High Voltage, Fluke, FLIR, AEMC, Omicron and more. Our nationwide network of eight warehouses stocked with NIST-traceable calibrated inventory ensures your critical equipment arrives functional, accurate, timely and on budget. Servicing your electrical test equipment needs since 2003.

**Stop By Our Trade Show Booth #215**  
**Tuesday, March 1**  
**12:00 PM - 5:30 PM**



**Rental and Sales**



**Calibration**



**Asset Management**

Atlanta | Chicago | Dallas | Denver | Houston | Los Angeles | New York | Reno-Tahoe

**CALL FOR A QUOTE**  
**866-352-5550**





IN-PERSON HIGHLIGHTS



Trade Show

Join the largest gathering of electrical testing professionals for the PowerTest 2022 Trade Show Exhibition. Featuring over 100 vendors, door prize giveaways, a complimentary lunch buffet, and over five hours to explore the latest and greatest products and services, the PowerTest Trade Show has something for everyone.

Tuesday, March 1 | Noon - 5:30 PM  
Colorado Convention Center | Denver, Colorado

Exhibitors List

Company	Booth #
ABB	415
Advanced Test Equipment Corp.	400
A-Rent Test Equipment	401
BCS Switchgear Inc.	701
CHK Power Quality	319
Doble Engineering Company	101
EA Technology LLC	503
ECP Solutions	721
Electrical Reliability Services	309
ETI Precision	301
Exelon PowerLabs	305
Group CBS	715
Group CBS New Products	720
High Voltage Maintenance	307
HV TECHNOLOGIES, Inc.	709
Intellirent	601

Company	Booth #
KINECTRICS	608
KoCos America LLC	506
Maddox Industrial Transformer, LLC	515
Megger	801
Monster Electrical	815
National Switchgear	201
Panduit	414
ProgUSA LLC	402
Protec Equipment Resources	215
Raytech USA Inc.	520
RESA Power	407
Richards Manufacturing	315
Shermco	501
Sunbelt Solomon	408
Technical Diagnostic Services	109
Utility Relay Company	615







Providing High-Quality  
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PowerTest Trade Show | Colorado Convention Center  
Tuesday, March 1, 2022 | Noon - 5:30 PM

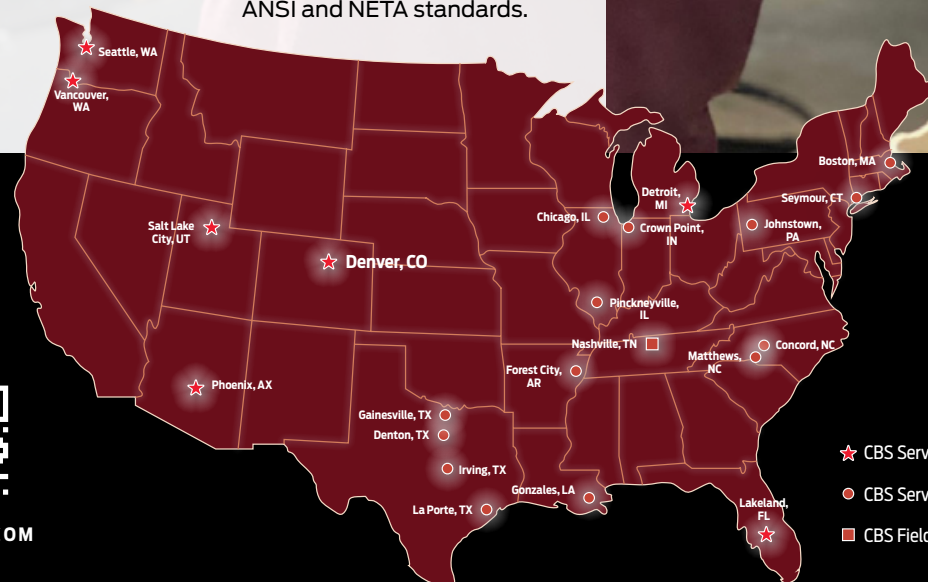
Booth 715 Group CBS | New Products Booth 720



CBS Service Shops offer the largest inventory of circuit breakers and parts at the best prices with the fastest turnaround time and provide repair, remanufacture, and life-extension services.



CBS Field Services specializes in providing electrical testing and maintenance services for electrical switchgear and power distribution equipment performed per ANSI and NETA standards.



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## Introducing our mini-ATOS.

Transformer Ratio and Winding Resistance are two of the common tests performed on transformers in our industry. Providing a single-hookup test instrument to combine these two functions into one test-set makes a lot of sense.

The mini-ATOS is the newest in our line of equipment, engineered with the reliability and ease of use that you have come to expect from Raytech products. Our simple design incorporates a dual-current Winding Resistance Meter with our Ratio technology in a small robust instrument. Our standard 5-year warranty gives you the peace of mind that the mini-ATOS will be in your equipment fleet for many years to come.

For more information about the mini-ATOS,  
visit our Booth #520 at PowerTest 2022 or contact us at

888-484-3779 or 267-404-2676

The mini-ATOS is a compact, intelligent and professional multifunctional power transformer and substation diagnostic system.

- Performs routine and advanced tests such as Winding Resistance (WR), Dynamic Resistance Measurement (DRM), Turns Ratio (TR), Frequency Response of Stray Losses (FRSL), Magnetic Balance, and other diagnostic parameters.
- Built-in fully automatic multiplexer, only a one-time connection is required for nearly all functions.
- Specially designed for fast and easy measurements with the well-known high precision and quality of all Raytech instruments.
- Portable, rugged case, perfect for use onsite or in a laboratory.



**Raytech** U.S.A. Inc.  
raytechusa.com



# PowerTest TV aims to provide new opportunities for technical development and greater flexibility to participate in the premier electrical maintenance and safety conference.

Customize your conference experience with virtual access to the cutting-edge content you've come to expect from PowerTest.

## Flexible and Accessible

Unable to travel to Denver this February for the in-person conference? Discover true flexibility with the PowerTest TV virtual platform, offering over 90 days of access to training resources carefully designed to fit your needs.



# POWERTEST<sup>TV</sup>

## Convenient and On-Demand

PowerTest TV puts the premier electrical maintenance and safety conference at your fingertips. Select your desired content and learn from the titans of the electrical power systems industry – from wherever you and your computer may be.

## Industry Credits

PowerTest TV registration offers access to exclusive, on-demand content eligible for both NETA CTD credits and CEUs. Use as a supplement to your in-person attendance or participate completely virtually with 2022's robust, easy-to-use platform. Included with each PowerTest TV virtual registration is access to approximately 30 hours (30 CTDs/3.0 CEUs) worth of on-demand content. For those interested in additional content, a bundle is available for purchase providing access to an extra 18 hours (18 CTDs/1.8 CEUs) of material.





# PowerTest 2022 Mobile App Available Soon

Don't miss a single moment of PowerTest 2022.  
Stay up-to-date on all things PowerTest with  
the conference mobile app.



**intellirent**  
division of ElectroRent Corp

## We rent and support electrical test equipment

We carefully select the right equipment for your **rental**, prepare it in real-world conditions complete for the application. It's field ready.

Testing needs **support**; the apparatus, the test equipment, the technician and the job. It's all we do.

We make the connection between **logistics** and the job, wherever it is. Putting a label on a box isn't enough. We proactively monitor the shipment, adapt, and ensure delivery commitment.

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Relay and Protection Test  
Battery  
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High Voltage Breakers  
SF6 Analysis  
Transformer Test and Diagnostic  
Cable and Bus  
Partial Discharge

Ground Test  
Meters and Meter Test  
Motor and Rotating Apparatus  
Infrared Cameras  
Patient Care Area  
Electrical Safety  
High Potential Test Sets  
Insulation Resistance  
Low Resistance Ohmmeters  
Cable Fault Location  
Process Calibration

An advertisement for HV Diagnostics Inc. featuring two large high-voltage test units on the left, a close-up of a damaged cable joint in the center, and a software interface on the right showing various graphs and data points. The text "Find Weak Cables... BEFORE They Fail!" is prominently displayed.

**HV Diagnostics INC.**

**Find Weak Cables...  
BEFORE They Fail!**

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## PRICING

### In-Person Registration

EARLY BIRD RATE*			AFTER DECEMBER 31, 2021	
	Non Members	NAC/ Alliance	Non Members	NAC/ Alliance
Mon. & Tues.	\$1,010	\$910	\$1,110	\$1,010
Mon.-Thurs.	\$1,910	\$1,710	\$2,010	\$1,810
Single Day	\$580	\$550	\$680	\$650
Virtual Add-On	\$0		\$199	

\*The above Early Bird Registration rates are applicable to the in-person event only and will be available until December 31, 2021.

### Virtual Registration

EARLY BIRD RATE*		AFTER DECEMBER 31, 2021
Virtual-Only Registration	\$1,185	\$1,500
Additional Content Bundle	\$900	\$900

\*The above Early Bird Registration rates are applicable to the virtual event only and will be available until December 31, 2021.

### Denver Essentials

SOCIAL PASS | \$75

POWERTEST POLO | \$60

POWERBASH RECEPTION | \$50

PRE-CONFERENCE EVENT | \$115

### Add-ons

DOBLE LABORATORY SEMINAR | \$455

### Additional Content

Included with each PowerTest TV virtual registration is access to approximately 30 hour (30 CTDs/3.0 CEUs) worth of on-demand content. For those interested in additional content, a bundle is available for purchase providing access to an extra 18 hours (18 CTDs/1.8 CEUs) of material.

For more information, pricing and to register visit the PowerTest website at [PowerTest.org](http://PowerTest.org).

# To our invaluable PowerTest 2022 sponsors, thank you.

#### PREMIUM SPONSORS



#### HIGH VOLTAGE



#### MEDIUM VOLTAGE



#### LOW VOLTAGE



#### GENERAL

