



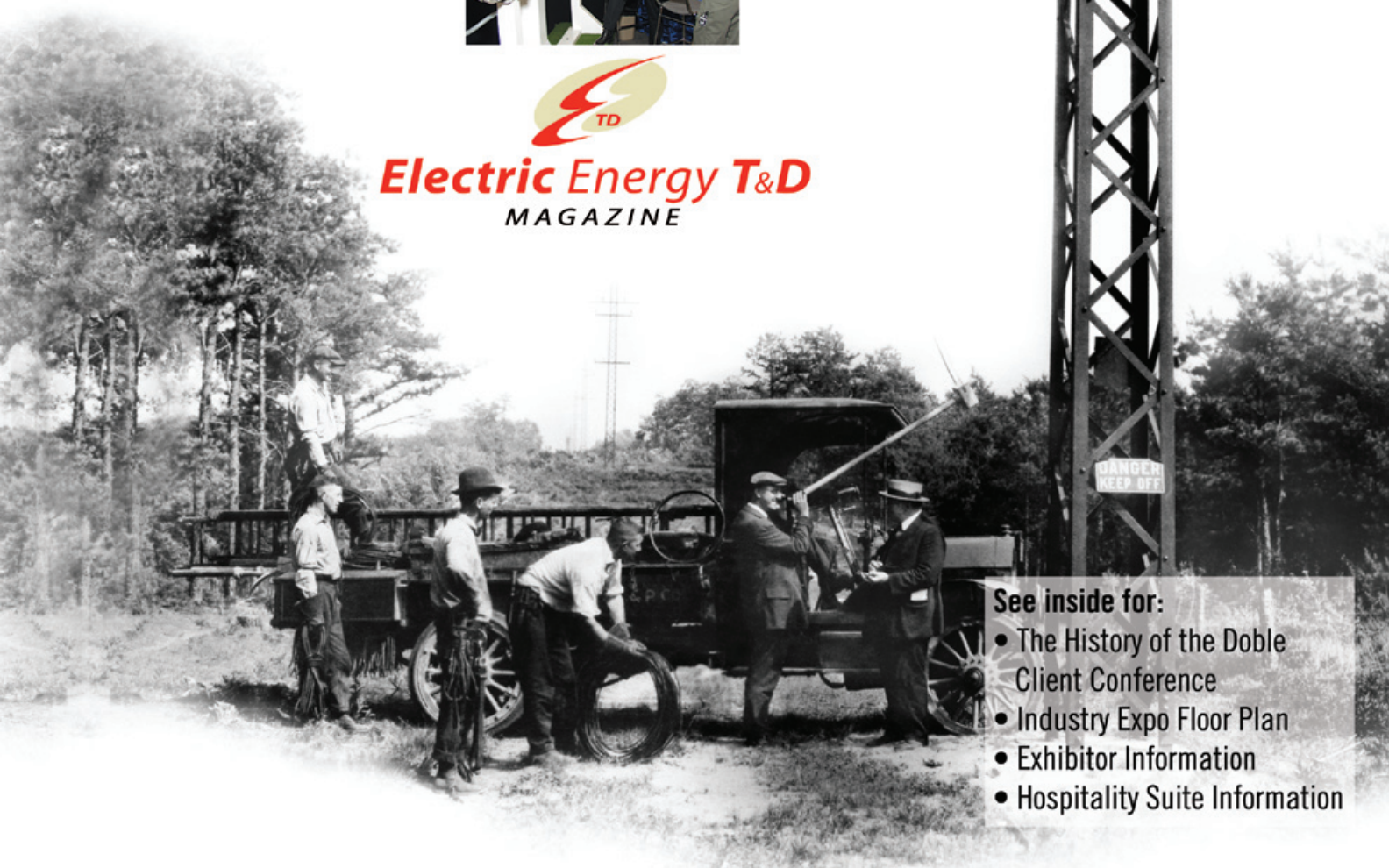
1934 - 2008

75 Years of Sharing Knowledge

April 6-11, 2008, Boston, MA, USA



**Electric Energy T&D**  
MAGAZINE



**See inside for:**

- The History of the Doble Client Conference
- Industry Expo Floor Plan
- Exhibitor Information
- Hospitality Suite Information



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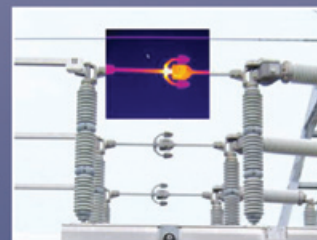
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**Product Showcase** 24  
Read about new products  
available to the industry.

COVER PAGE PHOTO: DOBLE ENGINEERING Co.



# Electric Energy T&D MAGAZINE

## IN THIS ISSUE



1934 - 2008  
75 Years of Sharing Knowledge

THE OFFICIAL SHOW GUIDE OF THE 2008 INTERNATIONAL  
CONFERENCE OF DOBLE CLIENTS

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## The History of the Doble Client Conference



The first Doble Client Conference was held in 1934 and lasted three days. The invitations to the first Conference were relatively informal and were accompanied by requests that the clients bring their power factor test sets for overhaul and calibration. Attendance at the first Conference totaled 20, including 12 engineers representing 11 utilities in Massachusetts, New York, Pennsylvania, and Rhode Island. It's interesting to note that the original 11 utilities still remain active Doble Clients today.

Starting in 1935, design engineers of the large electrical manufacturers were invited to participate in the Doble Conferences. The major bushing manufacturers presented information on the theory of the design and construction of bushings manufactured by General Electric, Ohio Brass, and Westinghouse manufacturing companies.

These early presentations obviously were extremely helpful in promoting a better understanding of bushing construction which related to enlightened interpretation of field results and improved maintenance practices.

Participation in the Conference by power-system operators has developed over the last seventy-five years from the original 12 companies to a group now representing over 90% of the electric energy generated in North America. The Doble Client Group includes electric utility systems in all 50 of the United States, nine provinces in Canada, and every Continent except Antarctica.

The mission of the Client Conference was – and still is - “to assemble all those involved in the design, testing, maintenance, and operation of power system apparatus (in particular the insulation system of that apparatus) to meet and share their product performances for the common good.”

## “I heard it at the Doble Client Conference”



Here are a few of the important developments in electrical maintenance practice that were brought to the attention of the electric power industry at the Doble Client Conference over the years.

Insulation Power Factor Field Testing.....	Doble Engineering 1934
Circuit Breaker Contact Resistance Tests.....	Detroit Edison 1938
Circuit Breaker Timing/ Motion Analysis .....	Cincinnati Gas & Electric 1938
Transformer Turns-Ratio Measurement .....	Alabama Power 1944
Infrared-Thermo Graphic Scanning .....	Public Service Indiana 1969
Low-Voltage Impulse Testing Transformers.....	Bonneville Power Administration 1969
Automated Insulation Power-Factor Testing .....	Doble Engineering 1991
Winding Insulation Frequency Response Analysis.....	National Grid 1995
On-Line Diagnostic of Bushings.....	Doble Engineering 1996
Identifying and Addressing Corrosive Sulfur.....	Doble Engineering 2006



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## Conference Activities and Benefits



Over the course of one week, the Doble Client Conference offers a wide array of opportunities for participants to learn and exchange knowledge and experience:

- Industry Best Practices at Conference Sessions
- Meetings of the Doble Client Committees
- Specialized Tutorials
- Training Track
- Earn Continuing Education Credits
- Doble User Group Meetings
- Doble Product Demonstrations and Product Training
- Industry Expo & Hospitality Suites

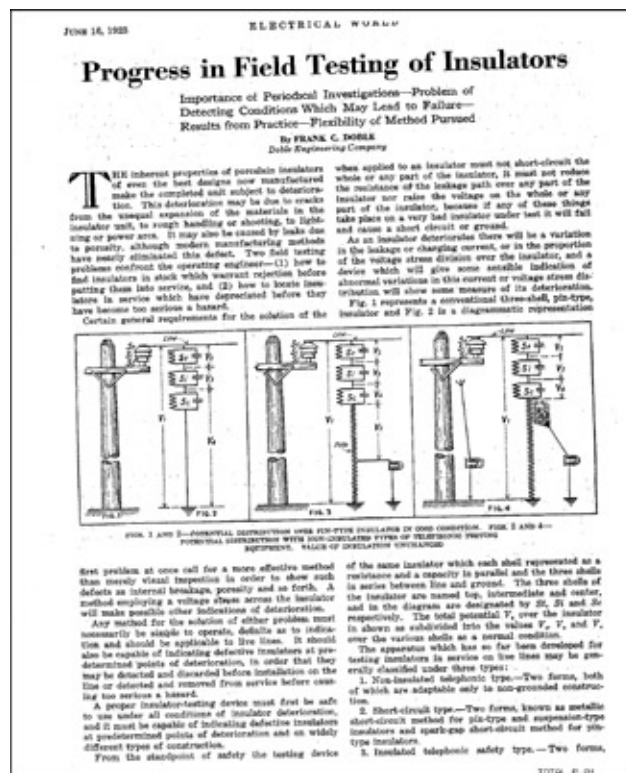
## Conference Proceedings

The tremendous wealth of information brought forth at each Doble Client Conference is assembled into an annual Doble Client Conference on-line Publication known as the Doble Client Conference Proceedings. Previously known as the "Conference Minutes", these are an invaluable resource for not only attendees but also those who are unable to attend the Conference. Clients can also view Proceedings from previous Client Conferences in the Doble Knowledge Reservoir.

Over the past seventy four years at the Doble Client Conferences, field maintenance practices and repair methods have developed that have ranged from field disassembly, repair and reassembly of the smallest bushing to that of a 1300-MVA 345/24.5-kV transformer weighing 440 tons. The Doble Client Group has also been directly responsible for numerous changes in apparatus insulation design and construction, which have improved operating performance as well as having enhanced testing and maintenance efficiency. For example, in 1948 the Doble Engineering Company, in cooperation with the

Client Group, developed the Ungrounded-Specimen Tests (UST) Circuit. These permitted separate tests on bushings equipped with capacitance or potential taps without the necessity of removal of the bushing from apparatus and provided the impetus for development of the power-factor test tap in bushings rated 69 kV and below. In 1954 the application of RIV test methods in field testing of high-voltage bushings was introduced at the Doble Conference, and in 1971 detection of incipient faults in transformers by analysis of gasses dissolved in oil was introduced.

Technical presentations and discussions presented at the Annual International Conference of Doble Clients are incorporated into the Proceedings of the Conference. Access to this knowledge is available to Clients as part of the Doble Services Program. Taken together, these decades of Proceedings dating back to 1934 are a rich source of information about the development of our reliable system of generation, transmission, and distribution of electric power.



## Our Ongoing Mission

Even though the Doble Client Conference has grown dramatically over the last seven decades, the original mission still remains nearly the same. The Doble Client Conference continues to serve the electric power industry by offering an objective platform for utilities to share information and knowledge about testing and maintenance practices and experiences. It continues to be a place where utility friendships are made and renewed, and where practical hands-on know-how is gathered and shared.



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## 2008 INTERNATIONAL CONFERENCE OF DOBLE CLIENTS EXHIBITING COMPANIES

In conjunction with the 2008 International Conference of Doble Clients, Doble Engineering is sponsoring an exposition of organizations that provide products and services to the electric power industry. This Industry Expo will help managers, engineers and technicians to learn about the latest tools that are available to them. All those participating in the Client Conference are welcome to attend. The Industry Expo will be held on the 3rd floor of the Westin Hotel Copley Place.

### 2008 Industry Expo Show Hours:

**Sunday, April 6, 2008 – DOBLE DISPLAYS ONLY**

5:00 PM – 7:30 PM Welcome Reception and Doble Product Displays

**Monday, April 7, 2008 – DOBLE DISPLAYS ONLY**

11:30 AM – 1:30 PM Doble Products Exhibit (lunch served)  
5:00 PM – 7:00 PM Evening Doble Products Exhibit with Reception

**Tuesday, April 8, 2008 – 67 EXHIBIT BOOTHS**

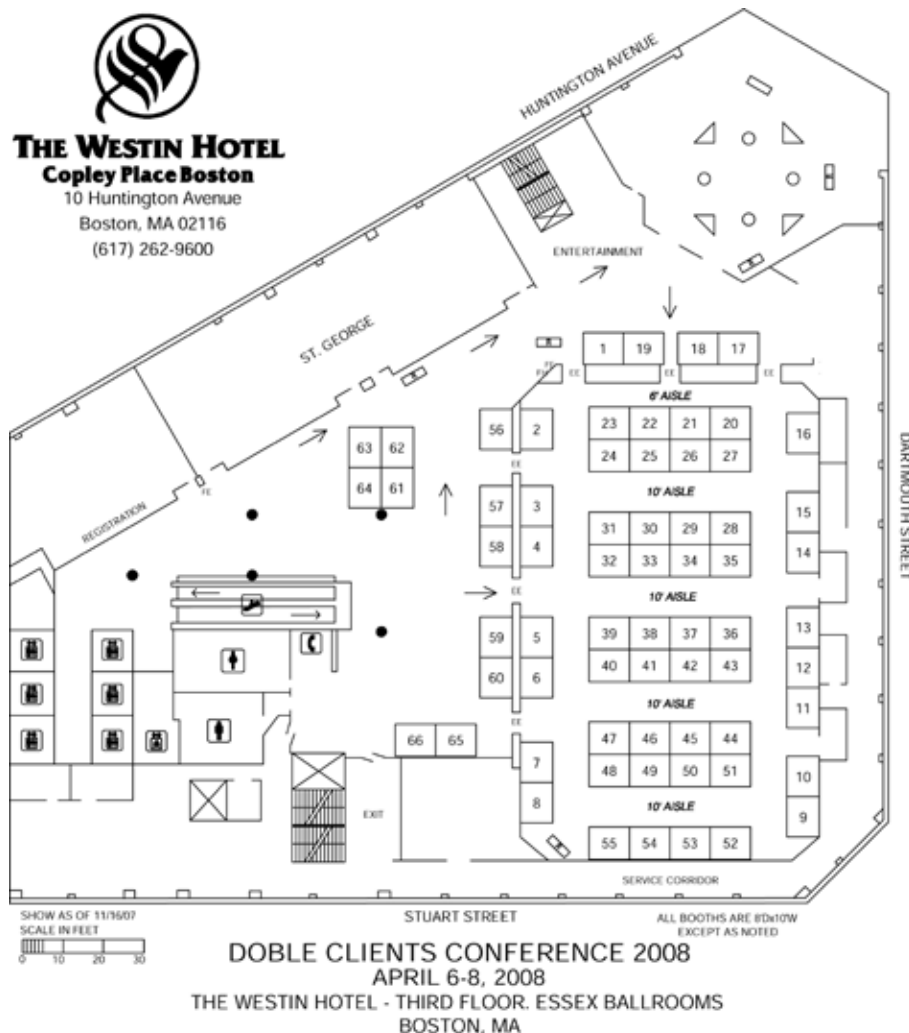
5:00 PM – 7:00 PM Opening of Industry Expo with Reception

**Wednesday, April 9, 2008 – 67 EXHIBIT BOOTHS**

11:30 AM – 1:00 PM Afternoon Industry Expo (lunch served)  
5:00 PM – 7:00 PM Evening Industry Expo with Reception

**Thursday, April 10, 2008 – 67 EXHIBIT BOOTHS**

11:30 AM – 1:30 PM Afternoon Industry Expo





# The 2008 International Conference of Doble Clients Exhibiting Companies



## A-Line E.D.S.

### Booth 55

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Marketing Contact: Paul M. Kelly  
Company Contact: Charles K. Blizzard, Jr. American Electrical Testing Co., Inc. provides power system studies and complete engineering and testing services for

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##### **See Ad Page 24**

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+1 800 877-8789 ext114  
Joe Theis  
[jtheis@digitalinspections.com](mailto:jtheis@digitalinspections.com)

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### **See Ad Page Back Cover**

Now in 75 countries all over the world, Doble Engineering has been helping clients in the electric power industry improve operations and optimize system performance for more than 85 years. Doble offers diagnostic instruments, knowledge services and the world's premier library of statistically significant apparatus test results for the benefit of energy generation and delivery companies and industrial power users worldwide.



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### **Booth 6**

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Pewaukee, WI 53072  
262-746-1230  
Fax: 262-746-1232  
Tony Pink  
[tony.pink@dynamicratings.com](mailto:tony.pink@dynamicratings.com)  
[www.dynamicratings.com](http://www.dynamicratings.com)

Dynamic Ratings offers comprehensive transformer management solutions providing monitoring, control and communications for medium and large power transformers. Our continual innovation has significantly reduced the cost and complexity of comprehensive transformer monitoring and control.

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### **Booth 59**

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Steven Desrochers  
[steven@electricenergyonline.com](mailto:steven@electricenergyonline.com)  
[www.electricenergyonline.com](http://www.electricenergyonline.com)

Electric Energy is proud to be the publisher of the 2008 International Conference of Doble Clients Conference and Show Guide. From the board room to the field, whether it is from our eNewsletter, eZine or EET&D Magazine, Electric Energy Publications delivers insightful and informative content. Watch The Trends, Get The Facts, Have The Edge!

## Electric Power Systems

### Booth 34

21 Millpark Ct.  
Maryland Heights, MO 63043 USA  
314-890-9999  
Steven C. Reed, PE  
[S.Reed@EPS-International.com](mailto:S.Reed@EPS-International.com)

Electric Power Systems is a technical service organization specializing in start up commissioning, and maintenance testing for utilities, industrial, governmental and transit systems clients. The firm, established in 1977, has developed a select staff of engineers and technicians with a broad spectrum of capabilities. EPS performs electrical systems analysis, engineering, acceptance and maintenance testing of power equipment systems. Our professional staff, with

their extensive field experience, has contributed to the successful completion of major generation, transmission and industrial projects throughout the world. Electric Power Systems' service area extends throughout the United States, with offices in most major regions of the country. Additionally, we have completed projects in the Middle East, South America, and the Far East.

## Electro Composites Inc

### Booth 32

1919 Lionel Bertrand Unit 107  
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+1 450-430-1181  
See Ad Page 22

## Energy Resources Group Inc.

### Booth 17

23 Commerce Park Way  
Farmington, NH 03835 USA  
+1 603-335-2535  
[ergincorp@aol.com](mailto:ergincorp@aol.com)  
[www.ergincorp@aol.com](http://www.ergincorp@aol.com)

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## Filmax, Inc.

### Booth 40

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+1 800-321-3895  
[sales@filmaxinc.com](mailto:sales@filmaxinc.com)  
[www.filmaxinc.com](http://www.filmaxinc.com)

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## **FISO Technologies**

### **Booth 18**

500 St-Jean-Baptiste Avenue, Suite 195  
Quebec (Quebec) G2E 5R9  
+1 418 688-8065

[sales@fiso.com](mailto:sales@fiso.com)

[www.fiso.com](http://www.fiso.com)

FISO Technologies provides reliable RFI and EMI immune solutions for all energy sectors, from electrical to oil and nuclear to hydrogen. Integration of FISO's fiber optic sensing instruments within the energy sector results in ideal monitoring performance enhancement and asset optimization. For more info, contact us at [sales@fiso.com](mailto:sales@fiso.com).

## **FLIR Systems**

### **Booth 58**

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N. Billerica, MA 01862 USA

[info@flir.com](mailto:info@flir.com)

[www.goinfrared.com](http://www.goinfrared.com)

### **See Ad Page Inside Front Cover**

FLIR Systems is the global leader in infrared cameras. For more than thirty years, utilities worldwide have used FLIR infrared cameras to identify problems before they turn into costly failures, downed equipment, or dangerous electrical fires.

## **GE Energy**

### **Booth 46 – 47**

4200 Wildwood Parkway  
Atlanta, GA 30339 USA  
330-963-2080  
Fax: 330-963-2080

### **See Ad Page 3**

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GE Energy offers the expertise and service capabilities you need to keep your equipment in peak operation condition. From power system design to remote monitoring to remanufacture to repair, we have the know-how and experience you can rely on to help ensure the smooth and efficient operation of your transformers, substations, motors, switchgear, drives and other power related equipment. Contact your GE Energy sales representative today and find out how we can help you with your winning performance.

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### **Booth 42**

412.787.1170 ext. 212  
Fax: 412.787.2270  
Vincent Chiodo, Sales Manager

[vchiodo@hicoamerica.com](mailto:vchiodo@hicoamerica.com)

[www.hicoamerica.com](http://www.hicoamerica.com)

HICO America, with headquarters in Pittsburgh Pennsylvania, is a part of the HICO division of the Hyosung Corporation, a \$5.5B publicly traded corporation based in Seoul, South Korea. HICO has been manufacturing power transformers since 1969, when it began a technical relationship with Westinghouse Corporation which lasted until the 1990's. We are extremely proficient with manufacturing medium and large power transformers, both core and shell form technology, up to 765kV 2050kV BIL, 2,200MVA capacity, as well as large power shunt reactors. HICO also offers SF6 power circuit breakers and Gas Insulated Switchgear up to 800kV, with experience since the 1970's. Having supplied over 5,000 GIS and breaker installations, and 4,500 power transformers worldwide, HICO is a world leader in technology and quality in the power equipment industry. Domestically, HICO America maintains a strong reputation for customer service and quality. With engineering, services, logistics, project management and sales teams working together in Pittsburgh and Los Angeles, as well as at our factory in Chang Won, South Korea, we continue to delight our customers with our immediate responsiveness & world class quality. Our goal remains to Power the Success of our customers' projects, doing our part, contributing by bringing projects online on-time, and exceeding expectations of quality and service.

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### **Booth 38 – 39**

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Dallas, TX 75247 USA  
+1 800-338-5526

[info@waukesha.spx.com](mailto:info@waukesha.spx.com)

[www.HighVoltageSupply.com](http://www.HighVoltageSupply.com)

### **See Ad Page 21**

A leading manufacturer of transformer, LTC and breaker components including a line of Transformer Health Products®. Valued supplier of LTC services including maintenance training, failure analysis reporting and complete overhauls. In addition, HVS has built a strong reputation as an industry leader in reverse-engineering and design enhancement.

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### **Booth 52**

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+1 703-365-2330

[hvsales@hvtechnologies.com](mailto:hvsales@hvtechnologies.com)

[www.hvtechnologies.com](http://www.hvtechnologies.com)

### **See Ad Page 12**

HV TECHNOLOGIES, Inc., the USA subsidiary of the LDIC Group, a leading company for High Voltage Test, Diagnostics and Monitoring Equipment. Our computer-based measuring devices not only assess the insulating condition but also indicate trending changes of the insulation behavior of electrical facilities. HVT believes that PD condition monitoring guarantees a higher network reliability.

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### **Booth 33**

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800-328-5894

Fax: 952-492-2796

[www.jordantransformer.com](http://www.jordantransformer.com)

Jordan Transformer repairs and rewinds substation transformers up to 50 MVA with voltages up to 161kV. Our Jordan, Minnesota facility has been supplying transformer repair services to utility and industrial customers for the past 35 years. Jordan Transformer can perform all ANSI prescribed testing for class II transformers up to 650 kV BIL with impulse and partial discharge testing capabilities. We also offer a full range of field services including turnkey repair services and oil processing.

## LumaSense

### Booth 23

404-512-6336

408-727-1600

Fax: 408-727-1677

Brett Sargent, Sr. Director Utility Products

[b.sargent@lumasenseinc.com](mailto:b.sargent@lumasenseinc.com)

[info@lumasenseinc.com](mailto:info@lumasenseinc.com)

[www.lumasenseinc.com](http://www.lumasenseinc.com)

LumaSense Technologies is a premier sensor company with a primary focus on clean technology sensing of temperature and gas parameters. With several options for the Energy Industry, LumaSense (formerly Luxtron) is the world leader of fiber optic temperature sensing of high voltage electrical gear including winding hot spot temperature sensing in transformers. LumaSense has over 25 years experience with winding hot spot temperature measurement and has been installed in over 1,000 transformers globally. LumaSense also offers Mikron portable and fixed thermal imagers for various applications to support predictive maintenance and utility operations.

## Morgan Schaffer Inc

### Booth 25

8300 Saint-Patrick, Suite 150

LaSalle, Quebec, Canada H8N 2H1

+001 514 739-1967

[sales@morganschaffer.com](mailto:sales@morganschaffer.com) - [www.morganschaffer.com](http://www.morganschaffer.com)

### See Ad Page 1

Morgan Schaffer designs, manufactures, and supports on-line and on-site fault gas monitors and multi-gas analyzers for utility and industrial applications. CALISTO 2 is a highly accurate on-line hydrogen, carbon monoxide and dissolved water monitor that offers unmatched precision and reliability. MYRKOS is a portable high speed micro gas chromatograph optimized to perform on-site DGA in only 2 minutes. PHA-1000 is a portable hydrogen analyzer which can measure dissolved hydrogen in transformer oil in less than 2 minutes. Our laboratory, certified ISO/IEC 17025, offers world-class oil analysis services and a variety of oil standards. TRUE NORTH is a dissolved gas-in-oil standard that can be used to validate and verify laboratory equipment and operations. ATLANTIS is a readily available dissolved moisture-in-oil standard that enables clients to validate tests results and avoid misleading conclusions. Morgan Schaffer is committed on investing in the development of precise and accurate solutions for its clients.

## Neoptix Fiber Optics Sensors

### Booth 20

1415, Charest Ouest, Suite 220

Quebec City, Quebec G1N 4N7 Canada

418-687-2500

Fax: 418-687-2524

Jean-Francois Meilleur

[jfmeilleur@neoptix.com](mailto:jfmeilleur@neoptix.com) - [www.neoptix.com](http://www.neoptix.com)

### See Ad Page 8

Neoptix Fiber Optic Sensors, Inc. provides a complete range of fiber optic monitoring equipment for true and direct winding temperature monitoring of dry and oil-filled transformers. Neoptix temperature probes are ruggedized and designed to withstand manufacturing procedures, heat run tests and long term measurement. Monitoring systems are available with 1 to 512 channels, with most common communication protocols including serial, Ethernet, MODBUS, DNP 3 and IEC 61850.

## NETA

### Booth 51

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Portage, MI 49024 USA

269-488-6382

Fax: 269-488-6383

Jayne Tanz

[jtanz@netaworld.org](mailto:jtanz@netaworld.org) - [www.netaworld.org/](http://www.netaworld.org/)

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## Nichols Applied Technology, LLC

### Booth 53

1475 Avenue S, Suite 300  
Grand Prairie, TX 75050 USA  
469-733-1500  
866-387-9051  
Fax: 469-733-1501  
Bruce Nichols

[bnichols@nicholstechnology.com](mailto:bnichols@nicholstechnology.com)  
[www.nicholstechnology.com](http://www.nicholstechnology.com)

Bruce Nichols, the original founder and previous owner of High Voltage Supply has now established his new company in Grand Prairie, Texas, a suburb of the Dallas/Ft. Worth Metroplex. Co-owners include Jamie Kerbyson, Manuel Garza and Stanley Hart, all previous employees of High Voltage Supply. The company manufactures electrical contacts and replacement parts for load tap changers and circuit breakers. Design, reverse engineering and manufacturing is supported by state-of-the-art design and inspection equipment. Current R&D projects includes collaboration with EPRI and Powertech Labs on the development of "Smart Contacts" with wear indicator implants.

## Normandy Machine Co, Inc

### Booth 24

250 Industrial Drive  
Troy, MO 63379 USA  
636-528-8913  
Gerald Woodruff

[jerry@normandymachine.com](mailto:jerry@normandymachine.com)  
[www.normandymachine.com](http://www.normandymachine.com)

NMC is the largest independent manufacturer of electrical contacts for all makes and models of LTC, OCB and Switches. NMC has complete LTCs in stock, along with complete interrupters. Our inventory is approaching \$1,700,000.00 with \$1,000,000.00 in finished goods ready for Next Day Delivery! NMC also has Porcelain Bushings from 1.2 KV -34.5 KV and up to 4000 amps with related hdw. Our Consulting and Training has been called the best value in the industry! Contact NMC for your substation needs!

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### Booth 56

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Jeremy Kriska

USA Sales Manager  
Office/Mobile +1-713-819 20 67  
Fax +1-713-586 38 45

[jeremy.kriska@nynas.com](mailto:jeremy.kriska@nynas.com)  
<http://www.nynas.com>

Nynas is a global refiner and producer of mineral transformer oils. Nynas stores transformer oil in Houston, TX, Long Beach, CA, and Montreal, QC, for customers throughout North America. Nynas manufactures Type I, Type II, and Arctic Grade Canadian Class A/B oils.

## Opsens fiber optic sensors

### Booth 45

2014 Cyrille Duquet, Suite 125  
Quebec City, Quebec G1N 4N6 Canada  
418-682-9996 extension 231  
Fax: 418-682-9939

Francis Raveneau  
[francis.raveneau@opsens.com](mailto:francis.raveneau@opsens.com)  
[www.opsens.com](http://www.opsens.com)

Opsens is the innovation leader in the development and commercialization of fiber-optic sensors for the various measurements in harsh environments. Our Transformer product line is the most user-friendly system to install and bears the only guarantee in the industry. Clients attending the Doble conference are invited to stop at the Opsens booth to discover the Zero-Fault™ system for transformer hot-spot temperature monitoring and ask about the 100% yield guarantee.

## Power Asset Recovery Corporation

### Booth 8

3801 Whipple Ave. NW, Suite 1  
Canton, OH 44718 USA  
330-493-1890  
Fax: 330-493-1893

Mark Haas  
[mark@power-asset.com](mailto:mark@power-asset.com)  
Missy McFarland  
[missy@power-asset.com](mailto:missy@power-asset.com)  
[www.power-asset.com](http://www.power-asset.com)

Power Asset Recovery Corporation (PARC) is one of the largest dealers in the world for New Surplus/Used Reconditioned distribution and power transformers up to 950,000 KVA, 500 kV. We have an extensive stock of transformers that we own and transformers

on consignment from utilities and industrial customers. Go to [www.bigpowertransformers.com](http://www.bigpowertransformers.com). We also have transformer parts in stock including new/unused transformer bushings up to 500kV and related substation components such as SF6 breakers. Go to [www.bigtransformerparts.com](http://www.bigtransformerparts.com). PARC now represents a new transformer manufacturer that builds power transformers up to 200,000 KVA and mobile substation transformers up to 50,000 KVA, a company that dismantles and scraps transformers, and a company that provides transformer field service. "Quite simply, we are the best at what we do"

## Power Substation Services

### Booth 7

4 Industrial Park Drive  
Wheeling, WV 26003 USA  
+1 304-232-1590  
Fax: 304-232-1599

Scott Reed  
[sreed@powersubsvcs.com](mailto:sreed@powersubsvcs.com)  
[www.powersubsvcs.com](http://www.powersubsvcs.com)

Power Substation Services (PSS) specializes in the installation, assembly, vacuum-filling, repair and testing of Substation, Power and GSU transformers throughout the United States. PSS has state of the art mobile rigs and experienced technicians for performing hot oil reclamation (dehydration/degas) on energized transformers. In addition, PSS is the only company in the United States with the permitted technology to destroy PCBs in the oil while performing the hot oil reclamation, a process known as PCBX<sup>SM</sup>.

## Qualitrol

### Booth 1

1385 Fairport Road  
Fairport, NY 14450  
585-586-1515

Dave Billings  
[dbillings@qualitrolcorp.com](mailto:dbillings@qualitrolcorp.com)  
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Humboldt, TN 38343 USA  
731-824-4004  
Fax: 731-784-7682  
[www.BESTLTC.com](http://www.BESTLTC.com)

#### **See Ad Page Inside Back Cover**

Reinhausen offers a Maintenance-Free long-range vision as regards the accessories on a Power Transformer. This includes On-Load Tap Changers, Dehydrating Breathers, Off Circuit Tap Changers, Voltage Control, as well as Oil Level and Temperature Instrumentation.

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+1 773-338-1000  
[SandCElectricCompany@sandc.com](mailto:SandCElectricCompany@sandc.com)  
[www.sandc.com](http://www.sandc.com)

Based in Chicago Illinois, S&C Electric Company is a global provider of sophisticated power-electronic products that deliver uninterrupted power for an entire facility

for crucial process industries. In addition, S&C provides a wide range of engineering, laboratory and testing services for electric utilities, as well as commercial, industrial, and institutional power users. S&C's domestic engineering offices and manufacturing facilities are located in California, Florida, Illinois, Washington, and Wisconsin; with international subsidiaries in Brazil, Canada, China, and Mexico.

### **Schweitzer Engineering Laboratories, Inc.** **Booth 57**

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Pullman, WA 99163 USA  
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(509) 332-7990 FAX  
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SEL contact at show: Bob Ryan

SEL is a leading manufacturer of monitoring, control, protection, communications, and security solutions, covered by a worldwide, ten-year warranty, and has the strongest customer support in the North American electric power industry.

SEL is known for innovative, reliable solutions, such as the SEL-387 transformer management system, which provides thermal overload and through-fault recording for accurate maintenance scheduling, and the SEL-2411 monitoring and control system.

### **SD Myers** **Booth 54**

180 South Avenue  
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330-630-7000  
Bill Beese  
[bill.beese@sdmyers.com](mailto:bill.beese@sdmyers.com)  
[www.sdmyers.com](http://www.sdmyers.com)

SD Myers is known worldwide for our analytical services (transformer oil analysis) and we provide highly skilled sample technicians if needed. Additionally we provide Lab-Online results, field service consulting, condition assessment of your equipment, seminars, training and international PCB and field services.

### **Serveron Corporation** **Booth 66**

3305 NW Aloclek Drive

Hillsboro, OR 97124 USA  
Jeff Golarz  
+1 503 924-3242

[jeff.golarz@serveron.com](mailto:jeff.golarz@serveron.com)  
[www.serveron.com](http://www.serveron.com)

Serveron, A BPL Global Company, develops, delivers and supports on-line transformer monitor products, as well as diagnostic services that transform the way utility assets are managed. Serveron asset condition assessment and management tools are critical to utilities in improving grid reliability while optimizing the management and economics of their asset base.

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7000 Siemens Road  
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919-365-2200

Todd Rittenhouse  
[todd.rittenhouse@siemens.com](mailto:todd.rittenhouse@siemens.com)  
[www.usa.siemens.com/energy](http://www.usa.siemens.com/energy)

Siemens Power Transmission & Distribution Inc., headquartered in Raleigh, North Carolina, supplies high- and medium-voltage power delivery equipment, energy management systems, installation and life-extension services, network planning, and power system engineering software for regulated and deregulated generation, transmission and distribution markets.

### **Solidification Products International, Inc** **Booth 60**

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Northford, CT 06472 USA  
203-484-9494  
Fax: 203-484-9492

Bill Gannon  
[bgannon@oilbarriers.com](mailto:bgannon@oilbarriers.com)  
[www.oilbarriers.com](http://www.oilbarriers.com)

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## **Southern States LLC**

### **Booth 30 – 31**

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+1 770-946-4562  
Fax: 770-946-8106  
Tom Speas

[SALES@SOUTHERNSTATESLLC.COM](mailto:SALES@SOUTHERNSTATESLLC.COM)

[www.southernstatesllc.com](http://www.southernstatesllc.com)

### **See Ad Page 9**

Southern States, LLC is a world leader in the design and manufacture of high voltage switching devices. The company offers disconnect switches, circuit switchers, load and line switchers, capacitor and reactor switchers, and a unique current measuring device.

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### **Booth 21**

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District Shenyang LiaoNing China  
0086-24-25698500

[tbea-info@shenbian.com.cn](mailto:tbea-info@shenbian.com.cn)

[www.tbea.com.cn](http://www.tbea.com.cn)

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Stanley Lin at

+1 626-818-2080

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\* Leadership position in large high-voltage transformers in China: Technology, design & manufacturing leader of high voltage Transformers, Reactors, HVDC Converter Transformers.

\* Large Range of High Voltage Systems: Large high voltage Transformers & Reactors up to 1,000kV, HVDC Converter Transformers up to 800kV.

\* Reliable and cost-effective: Over 50% of large high voltage transformers in operation in China are TBEA transformers

## **Three-C Electrical Company Inc.**

### **Booth 17**

190 Pleasant Street  
Ashland, MA 01721  
508-881-3911

[sales@three-c.com](mailto:sales@three-c.com)

[www.three-c.com](http://www.three-c.com)

Three-C Electrical has been serving the New England power industry for more than 35 years with a broad variety of electrical

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## **TJH2b Analytical Services, Inc.**

### **Booth 4**

3123 Fite Circle  
Sacramento, CA 95827 (Headquarters)  
+1 916-361-7177

[sales@tjh2b.com](mailto:sales@tjh2b.com)

[www.tjh2b.com](http://www.tjh2b.com)

TJH2b Analytical Services, Inc. is an independent analytical laboratory and consulting firm that specializes in diagnostic testing of oil, gas and other insulating materials used in transformers, power circuit breakers and load tap-changers. We are the industry leaders in the development and application of condition-based maintenance programs for electric utilities, industrial high-voltage power users and service companies. TJH2b Analytical Services, Inc. provides testing, consulting and other analytical services through a worldwide network of laboratories.

## **TransFluid Services, Inc**

### **Booth 48**

201 Inner Drive  
Le Sueur, MN 56058 USA  
+1 800-442-8077  
Fax: 612-465-6190

John Laux

[john@transfluidservices.com](mailto:john@transfluidservices.com)

[www.Transfluidservices.com](http://www.Transfluidservices.com)

TransFluid Services, Inc. is a national service company specializing in fluid handling services on large transformers. These services include vacuum filling of new transformers, degas, dehydration, acid stripping and oil improvement to exceed new oil specifications. We also provide retro filling services of existing transformers with the new vegetable based environmentally friendly transformer fluids and provide customer fluid sampling services. All of our equipment is self contained and

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## **Trantech Radiator Products, Inc.**

### **Booth 3**

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Edgefield, SC 29824 USA  
+1 803-637-3166

[sblane@trantechradiators.com](mailto:sblane@trantechradiators.com)

[www.trantechradiators.com](http://www.trantechradiators.com)

### **See Ad Page 14**

Trantech Radiator Products is the largest manufacturer of transformer radiators in North America. We have been supplying radiators and valves for over 50 years. Radiator products include 9", 12", 15" and 520mm.

## **Unifin International LP**

### **Booth 63 – 64**

5721 McNeven Court  
Dublin, OH 43017 USA  
+1 614-336-1590  
Fax: 614-336-1872

Dick Amos

[Dick.amos@unifin.com](mailto:Dick.amos@unifin.com)

[www.unifin.com](http://www.unifin.com)

### **See Ad Page 23**

Unifin International is the world's leading supplier of transformer FOFA coolers, Cardinal transformer oil circulating pumps and motor/generator air and water coolers. Both extruded tube and platefin technologies are available, with the choice of cooling surface being determined by customer preference and the specifics of the application. Unifin supplies both OEM and users with a flexible line of standardized coolers that allow bolt-in installation of replacement coolers without requiring piping modifications.

## **Vacudyne**

### **Booth 26**

375 East Joe Orr Road  
Chicago Heights, IL 60411 USA  
+1 708-757-5200  
Fax: 728-757-7180

Robert Williams

[bwilliams@vacudyne.com](mailto:bwilliams@vacudyne.com)

[www.vacudyne.com](http://www.vacudyne.com)

Vacudyne for 50 years has been manufacturing custom and standard mobile and stationary oil purification systems sized from 70 GPH to 4,000 GPH. These systems remove moisture, gas and particulates. Vacudyne serves the Utility, T&D, Generating and Industrial markets. We offer consultation, installation, start-up, training and parts and services to our world-wide customers.

## Velcon Filters, Inc.

### Booth 16

1210 Garden of the Gods Road  
Colorado Springs, CO 80907 USA

+1 719-531-5855

800-531-0180

Fax: 719-531-5690

Ben Taylor, ext. 7229

[vfsales@velcon.com](mailto:vfsales@velcon.com)

[www.velcon.com](http://www.velcon.com)

Turn oil handling into art with Velcon! Our fixed, portable, and mobile filtration and storage systems combine such features as versatility, simplicity, and quality to purify insulating oil using advanced

**Superdri®** cartridge technology. With this technology Velcon's load tap changer filter systems, oil filter trailers, and on-line transformer drying systems out-perform other manufacturers' systems. See our website at <http://www.velcon.com> for additional information.

## The Von Corporation

### Booth 50

PO Box 110096

1038 Lomb Avenue SW

Birmingham, AL 35211 USA

+1 205-788-2437

Fax: 207-780-4015

[www.voncorp.com](http://www.voncorp.com)

### See Ad Page 10

The Von Corporation manufactures high-voltage test equipment and primary underground cable fault location equipment.

## Waukesha Electric Systems

### Booth 38 – 39

400 S. Prairie Avenue

Waukesha, WI 53186

+1 800-835-2732

[info@waukesha.spx.com](mailto:info@waukesha.spx.com)

[www.WaukeshaElectric.com](http://www.WaukeshaElectric.com)

Largest U.S. manufacturer of power transformers and valued supplier of complete transformer service solutions. Our components division, High Voltage Supply, offers transformer, LTC and breaker components including a line of Transformer Health Products® as well as training and reverse-engineering capabilities.

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### Booth 14

786-252-6965

Zalya Berler

[berlerg@bellsouth.net](mailto:berlerg@bellsouth.net)

[www.ztzservices.com](http://www.ztzservices.com)

ZTZ Services International is an engineering and consulting firm that specializes in on-line in service testing and diagnostics for large power transformers, free standing CTs and CCVTs. The company manufactures hardware and instrumentation for on-line PF bushings, CT and CCVT testing and monitoring. ZTZ Services International has recently introduced unique software for design review of the power transformers which include the following modeling of the transformer design: winding dynamic stability at short circuit stress, high frequency transients inside transformer at the lightning impulse, dielectric margin of insulation, thermal profile of windings and hot spots. An exclusive distributor in North America of DGA analyzer manufactures by MTE, Germany.



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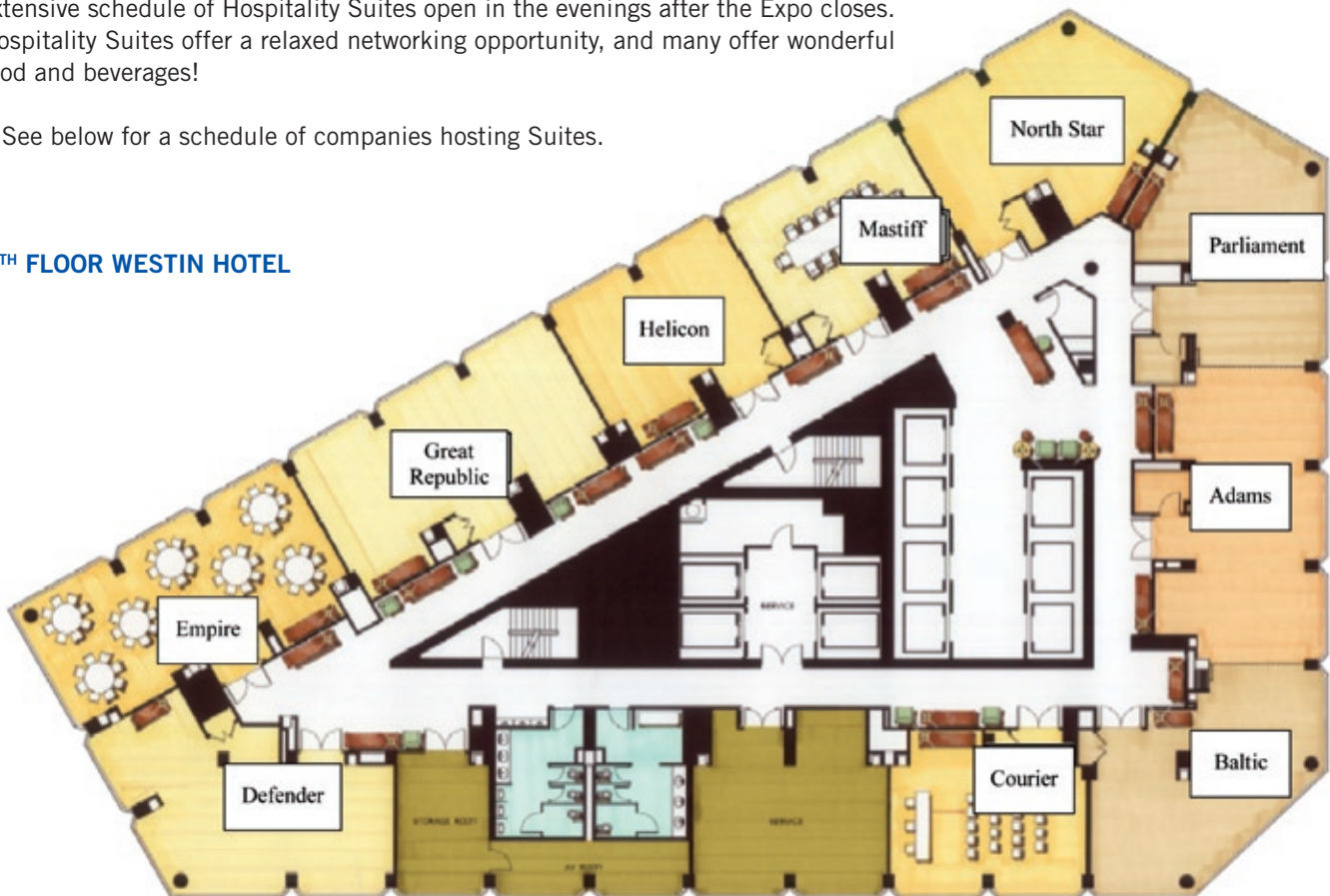
# Hospitality Suites at the 2008 International Conference of Doble Clients



In addition to the Industry Expo, Conference attendees should take advantage of the extensive schedule of Hospitality Suites open in the evenings after the Expo closes. Hospitality Suites offer a relaxed networking opportunity, and many offer wonderful food and beverages!

> See below for a schedule of companies hosting Suites.

## 7<sup>TH</sup> FLOOR WESTIN HOTEL



Hospitality Suite Schedule	Sunday, April 6	Monday, April 7	Tuesday, April 8	Wednesday, April 9
<b>7th Floor:</b>				
Parliament		ABB	ABB	
Adams				
Baltic				
Courier	E Mfg. Co., Inc.	E Mfg. Co., Inc.	E Mfg. Co., Inc.	
Defender		Uptime Solutions	Uptime Solutions	Uptime Solutions
Empire				
Great Republic	AREVA T&D	AREVA T&D		
Helicon		PCORE	PCORE	
North Star		SouthWest Electric	SouthWest Electric	
<b>Suites On Other Floors:</b>				
Ambassadors (36th floor)				
Governor (31st floor)		Waukesha High Voltage Supply	Waukesha High Voltage Supply	
Imperial (36th floor)		Nynas	Nynas	
Presidential (36th floor)		GE Energy	GE Energy	Reinhausen
Senator (21st floor)			Velcon	Velcon
Turners Restaurant			SD Myers (breakfast)	



## The 2008 Hospitality Suite Holder Company Descriptions

### **ABB Inc.**

1128 Cavalier Drive  
Alamo, TN 38001  
+1 731-394-1300

[randy.williams@us.abb.com](mailto:randy.williams@us.abb.com)  
[www.abb.com](http://www.abb.com)

ABB is a leader in the power and automation technologies that enable utility and industry customers to improve performance while lowering environmental impact. ABB provides products and services such as HV breakers, arresters, HV breaker service, medium voltage service, transformer components, power transformers, LTCs, transformer monitoring/diagnostics, and transformer manufacturing and field services.

### **AREVA T&D**

One Power Lane  
Charleroi, PA 15022 USA  
1-724-483-7891  
Fax: 724-483-7771

Mark Hammer  
[mark.hammer@areva-td.com](mailto:mark.hammer@areva-td.com)  
[www.areva-td.com](http://www.areva-td.com)

AREVA T&D supplies high voltage electrical substation equipment worldwide including a full compliment of power circuit breakers, disconnect switches, and gas insulated switchgear. AREVA T&D also has a complete line of instrument transformers and associated products from 15 kV to 765 kV, including current transformers, voltage transformers, combined metering units, power voltage transformers, line traps, line tuners, and air-core reactors and large power transformers from eight manufacturing facilities worldwide. Transformer capacities range to 800 kV and from 50 MVA to > 1000 MVA and include auto transformers, GSU, step down and shunt reactors. AREVA T&D's North America Service organization provides a comprehensive range of support services for AREVA T&D's equipment meeting all industry requirements.

### **E Mfg. Co., Inc.**

7275 Industrial Pk. Blvd.  
Mentor, OH 44060  
+1 440-951-0900

[info@emanufacturing.com](mailto:info@emanufacturing.com)  
[www.emanufacturing.com](http://www.emanufacturing.com)

E Mfg. Co., Inc. is a manufacturer of

replacement parts for LTC's, Circuit Breakers and most substation equipment. E Mfg. is an OEM for Air Break Disconnect Switches and SF6 Gas Distribution Carts. E Mfg. has been serving the power industry for over 24 years with a focus on innovative designs, fair pricing and interactive customer service to accommodate the changing utility industry.

### **GE Energy**

4200 Wildwood Parkway  
Atlanta, GA 30339 USA  
330-963-2080  
Fax: 330-963-2080

[www.ge-energy.com/industrial\\_solutions](http://www.ge-energy.com/industrial_solutions)

GE Energy offers the expertise and service capabilities you need to keep your equipment in peak operation condition. From power system design to remote monitoring to remanufacture to repair, we have the know-how and experience you can rely on to help ensure the smooth and efficient operation of your transformers, substations, motors, switchgear, drives and other power related equipment. Contact your GE Energy sales representative today and find out how we can help you with your winning performance.

### **High Voltage Supply, a division of Waukesha Electric Systems**

9011 Governors Row  
Dallas, TX 75247 USA  
+1 800-338-5526

[HVSinfo@waukesha.spx.com](mailto:HVSinfo@waukesha.spx.com)

A leading manufacturer of transformer, LTC and breaker components including a line of Transformer Health Products®. Valued supplier of LTC services including maintenance training, failure analysis reporting and complete overhauls. In addition, HVS has built a strong reputation as an industry leader in reverse-engineering and design enhancement.

### **Nynas USA, Inc.**

1800 West Loop South, Suite 1200  
Houston, TX 77027-3291

Jeremy Kriska  
USA Sales Manager  
Office/Mobile +1-713-819 20 67  
Fax +1-713-586 38 45  
[jeremy.kriska@nynas.com](mailto:jeremy.kriska@nynas.com)

<http://www.nynas.com>

Nynas is a global refiner and producer of mineral transformer oils. Nynas stores transformer oil in Houston, TX, Long Beach, CA, and Montreal, QC, for customers throughout North America. Nynas manufactures Type I, Type II, and Arctic Grade Canadian Class A/B oils.

### **PCORE Electric Company, Inc.**

135 Gilbert Street  
LeRoy, NY 14482 USA  
+1 585-768-1200  
Fax: 585-768-1212

[info@pcoreelectric.com](mailto:info@pcoreelectric.com)  
[www.pcoreelectric.com](http://www.pcoreelectric.com)

PCORE Electric, a subsidiary of Hubbell Power Systems Inc., is North America's only company 100% focused on the manufacturing of capacitance-graded bushings, and related components, for transformers and oil circuit breakers in the ANSI and CSA marketplace. PCORE offers a wide range of products, including 15kV-69kV PRC® Bushings, 25kV-500kV POC® Bushings, and 25kV GSU Bushings. PCORE's time and cost-saving products include the PCORE® Test Terminal, Bushing Repair Service and the patented Quick Link Bushing™. PCORE provides tailored solutions to the North American electric industry for bushings and related components. We are committed to delivering the best possible value to our customers, employees, owners, vendors and community.

### **Reinhausen**

549 N 9th Ave  
Humboldt, TN 38343 USA  
731-824-4004  
Fax: 731-784-7682

[www.BESTLTC.com](http://www.BESTLTC.com)

Reinhausen offers a Maintenance-Free long-range vision as regards the accessories on a Power Transformer. This includes On-Load Tap Changers, Dehydrating Breathers, Off Circuit Tap Changers, Voltage Control, as well as Oil Level and Temperature Instrumentation.



# The 2008 Hospitality Suite Holder Company Descriptions



## SD Myers

180 South Avenue  
Tallmadge, OH 44278 USA  
330-630-7000  
Bill Beese

[bill.beese@sdmyers.com](mailto:bill.beese@sdmyers.com)

[www.sdmyers.com](http://www.sdmyers.com)

SD Myers is known worldwide for our analytical services (transformer oil analysis) and we provide highly skilled sample technicians if needed. Additionally we provide Lab-Online results, field service consulting, condition assessment of your equipment, seminars, training and international PCB and field services.

## Southwest Electric Company

6501 SE 74TH Street  
Oklahoma City, OK 73170  
+1 (405) 737-5691

[bruce.forsyth@swelectric.com](mailto:bruce.forsyth@swelectric.com)

[www.swelectric.com](http://www.swelectric.com)

Southwest Electric Company is one of the foremost remanufacturing, manufacturing, and service companies for electrical equipment in the central United States. We provide repair, maintenance, testing, redesign, manufacturing, remanufacturing, and replacement services for rotating equipment, switchgear, transformers, and associated apparatus. From our engineers, assemblers, and technicians to our patented designs, service, and support, you will not find a more skilled solution provider.

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Contact: Terry Martin

[martin@weschler.com](mailto:martin@weschler.com) for information

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Toll Free: (800)872-3455

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INCON provides intelligent on-line monitors for Electric and Water Utility markets. Our products include a new transformer LTC maintenance/position monitor, a wear & condition monitor for power circuit breakers & precision programmable panel instruments to indicate mechanical position or liquid level.

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- 1000 joules output
- 400 mA burn current



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Only VLF  
Thumper**

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- Models from 5-100 kV, 650-7500 joules
- Accessories include cable radar, acoustical listening devices, and output cable reels



• 0-9/18/36 kV  
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• 280mA burn current

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VLF Patent # US 6,169,406



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**VLF Output: 33 kVac peak**  
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- **Tjh2b**

3123 Fite Circle  
Sacramento, CA 95827  
(916) 361-7177

Contact: David Weil - [Weil@Tjh2b.com](mailto:Weil@Tjh2b.com)  
for information

TJ/H2b Analytical Services, Inc. is an independent analytical laboratory and consulting firm that specializes in diagnostic testing of oil, gas and other insulating materials used in transformers, power circuit breakers and load tap-changers. We are the industry leaders in the development and application of condition-based maintenance programs for electric utilities, industrial high-voltage power users and service companies. TJ/H2b Analytical Services, Inc. provides testing, consulting and other analytical services through a worldwide network of laboratories.

- **Delta X Research**

PO Box 42083  
2200 Oak Bay Avenue  
Victoria BC Canada V8R 6T4  
Main office: 250-592-2998  
Sales: 919-544-8191

Contact: George Forrest -  
[gforrest@deltaxresearch.com](mailto:gforrest@deltaxresearch.com) for information  
Delta-X Research's "Transformer Oil Analyst" (TOA) software is used worldwide for managing and interpreting insulating fluid test data, including dissolved-gas analysis (DGA). Electric utilities, industrial plants, and analytical labs are now using the TOA4 Online web service, which is based on the latest version of TOA. Visit our trade show booth and hospitality suite for a personal TOA4 Online demonstration and a chat with Dr. Jim Dukarm.

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# The 2008 Hospitality Suite Holder Company Descriptions



- **ENOSERV**

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Tulsa, OK 74145

(918)622-4530

Contact - [Sales@enoserv.com](mailto:Sales@enoserv.com)

for information

Enoserv is a developer of protective relay test software. Enoserv also offers relay testing services nationwide.

- **Physical Acoustics Corp.**

195 Clarksville Road  
Princeton Jct, NJ 08550  
(609) 716-4113

Contact: Robert Langan -

[rlangan@pacndt.com](mailto:rlangan@pacndt.com) for more information  
Physical Acoustics Corp. (PAC) Designs and manufactures acoustic emission sensors and acoustic emission measurement instruments. PAC provides training and certification in non-destructive testing and analysis.

- **Transformer Protector Corporation**

808 Russell Palmer Rd., Suite 264  
Kingwood, TX 77339

Contact: Rick Lee for information (281)  
358-9900 ext 501

[rlee@transproco.com](mailto:rlee@transproco.com)

Transformer Protector Corporation, located in Kingwood, TX manufactures a patented Transformer Protector (TP). During a transformer short circuit, the TP is activated within milliseconds by the first dynamic pressure peak of the shock wave generated by the electrical fault before static pressure increases. The TP prevents the transformer from exploding or rupturing and contains all of the explosive gases and oil that are generated by the electrical arc. The TP also eliminates environmental concerns and oil spills.

- **Digital Inspections, a KEMA Company**

804A Buchanan Ave NW  
Corvallis, OR 97330 USA

[www.digitalinspections.com](http://www.digitalinspections.com)

Fax: +1 541-758-3666

+1 800 877-8789 ext116

John Lane

[jlane@digitalinspections.com](mailto:jlane@digitalinspections.com)

+1 800 877-8789 ext114

Joe Theis

[jtheis@digitalinspections.com](mailto:jtheis@digitalinspections.com)

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## Waukesha Electric Systems

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Waukesha, WI 53186

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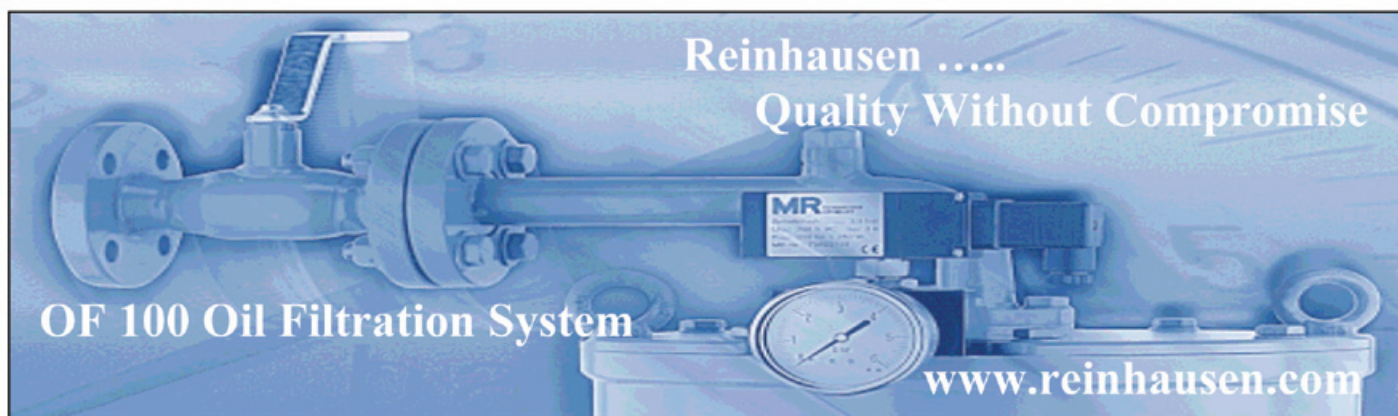
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Fax: 450-616-4217  
Cell: 514-887-6316  
[Richard.Tourigny.Reinhausen@BestLTC.com](mailto:Richard.Tourigny.Reinhausen@BestLTC.com)



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Ray Williams  
Regional Sales Manager East Coast  
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Hurricane, WV 25526, USA  
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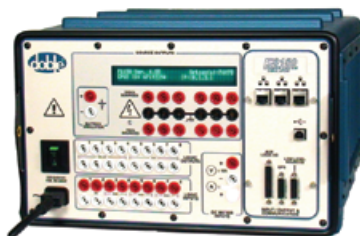


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