



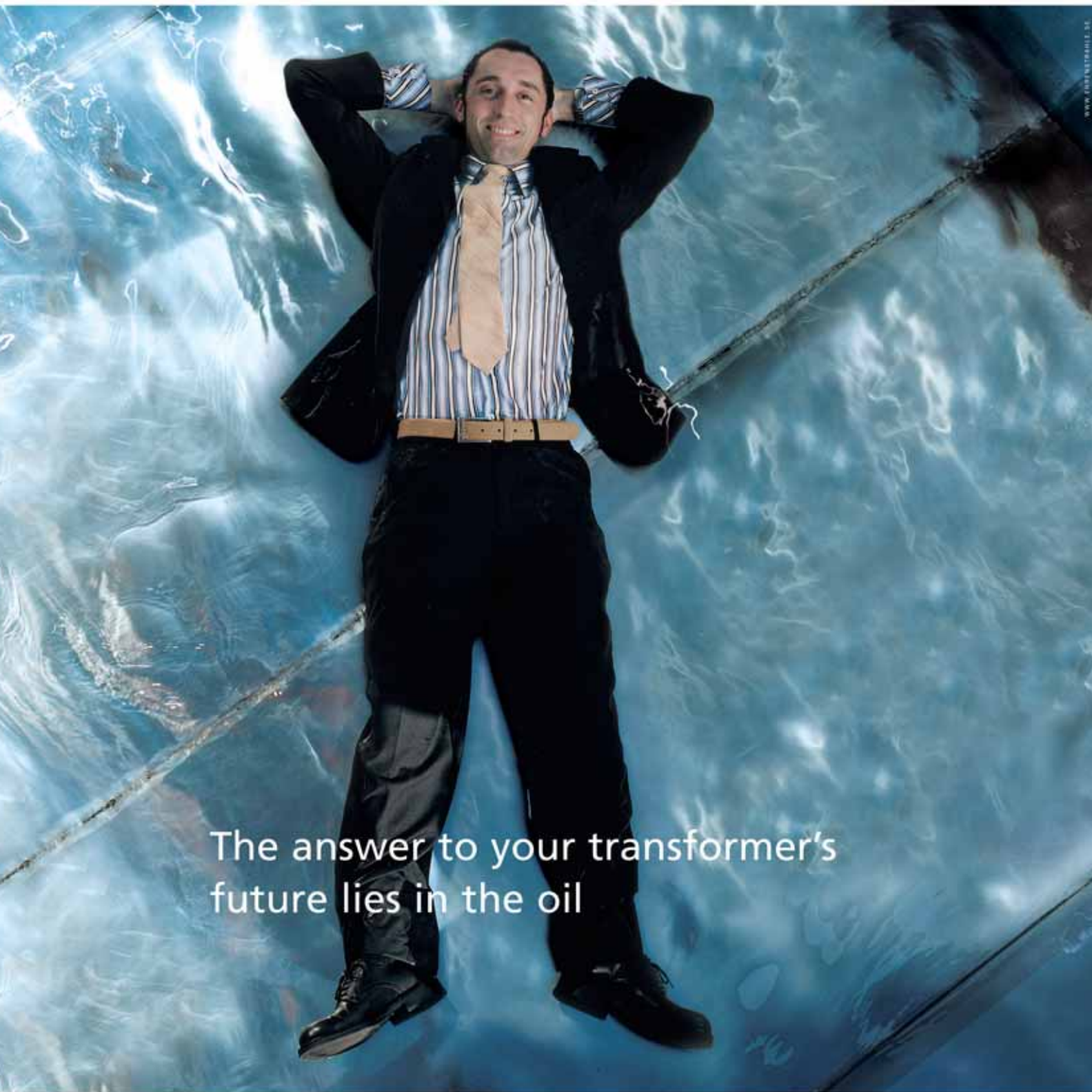
# **Electric Energy T&D**

## **MAGAZINE**

DOBLE 2006 Issue 3 - Volume 10



**The Official  
Show Guide of the  
2006  
International  
Conference of  
Doble Clients  
and Industry Expo**



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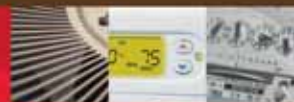


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**Product Showcase**  
Read about new products available to  
the industry.

32

**Advertisers Index**  
This index is a guide to locate specific display  
advertisers throughout the magazine.

32

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DOBLE ENGINEERING Co.



# Electric Energy T&D MAGAZINE

## IN THIS ISSUE



## THE OFFICIAL SHOW GUIDE OF THE 2006 INTERNATIONAL CONFERENCE OF DOBLE CLIENTS AND INDUSTRY EXPO

### 6 ... 2006 INTERNATIONAL CONFERENCE OF DOBLE CLIENTS CONFERENCE PROGRAM & SHOW GUIDE

The agenda for this year's event is based on the traditional Doble Client Conference program and includes the Client Committee meetings ("Blue Badge" delegates only) and the respective sessions of technical presentations for each of the eight primary Client Committees.

### 19 ... 2006 INTERNATIONAL CONFERENCE OF DOBLE CLIENTS EXHIBITING COMPANIES

In conjunction with the 2006 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...

### 28 ... HOSPITALITY SUITES AT THE 2006 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 ...



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is proud to be a member  
of these associations





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# Schedule of Events for the 2006 International Conference of Doble Clients at Boston

Sunday, April 9, 2006		Location
8:00 am - 5:00 pm	Exhibitor Set Up	Essex Foyer, Ballroom & Staffordshire
11:00 am - 7:00 pm	Registration and Information Desk Open	America Ballroom Foyer
1:00 pm - 5:00 pm	Tutorial: "Transformer Internal Inspections"	America Ballroom Center & South
5:00 pm - 7:00 pm	Industry Expo Opens	Essex Foyer, Ballroom & Staffordshire
5:00 pm - 7:00 pm	Welcome Reception in Industry Expo	Essex Foyer, Ballroom & Staffordshire
7:00 PM	Hospitality Suites Open	7th Floor & Other floors
Monday, April 10, 2006		
7:00 am - 6:00 pm	Registration and Information Desk Open	America Ballroom Foyer
7:00 am - 8:00 am	Newcomers Orientation	America Ballroom North
7:00 am - 8:00 am	IDD - Intelligent Diagnostic Device - User Group Meeting	Defender Boardroom, 7th floor
8:00 am - 9:00 am	Opening Session & Keynote Address	America Ballroom Center & South
8:30 am - 10:30 am	Companion Brunch	Turners Restaurant
9:00 am - 10:30 am	AMM (Asset & Maintenance Management) Committee Meeting	America Ballroom North
10:30 am - 12:00 pm	BIIT (Bushings, Insulators & Instrument Transformers) Committee Meeting	America Ballroom North
11:00 am - 1:30 pm	Industry Expo Open (includes light lunch)	Essex Foyer, Ballroom & Staffordshire
12:00 pm - 1:30 pm	DTA - Doble Test Assistant - User Group Meeting (includes light lunch)	America Ballroom Center
12:00 pm - 1:30 pm	EuroDoble Committee Meeting (includes light lunch)	Defender Boardroom, 7th floor
1:30 pm - 3:00 pm	CB (Circuit Breakers) Committee Meeting	America Ballroom North
2:30 pm - 4:30 pm	Tutorial: "Partial Discharge"	St George
1:30 pm - 5:00 pm	AMM (Asset & Maintenance Management) Session	America Center
3:00 pm - 6:00 pm	Basic Power Factor Training	America South
4:00 pm - 5:30 pm	IM (Insulating Materials) Committee Meeting	America Ballroom North
5:00 pm - 7:00 pm	Industry Expo Open	Essex Foyer, Ballroom & Staffordshire
7:00 PM	Hospitality Suites Open	7th Floor & Other floors
6:30 PM - 9:30 pm	Committee Officers Dinner (offsite)	Algonquin Club
Tuesday, April 11, 2006		
7:00 am - 6:00 pm	Registration and Information Desk Open	America Ballroom Foyer
7:30 am - 12:00 pm	BIIT (Bushings, Insulators & Instrument Transformers) Session	America Ballroom Center & South
11:00 am - 1:30 pm	Industry Expo Open	Essex Foyer, Ballroom & Staffordshire
11:00 am - 1:30 pm	Light lunch served in Expo Hall	Essex Foyer, Ballroom & Staffordshire
1:30 pm - 6:30 pm	IM (Insulating Materials) Session	America Ballroom South
1:30 pm - 3:00 pm	RM (Rotating Machinery) Committee Meeting	America Ballroom North
3:00 pm - 4:00 pm	Exhibitor Feedback Meeting	St George
5:00 pm - 7:00 pm	Industry Expo Open	Essex Foyer, Ballroom & Staffordshire
7:00 PM	Hospitality Suites Open	7th Floor & Other floors
7:00 PM - 9:00 pm	Field Processing Subcommittee Meeting & Dinner	St George
Wednesday, April 12, 2006		
7:00 am - 6:00 pm	Registration and Information Desk Open	America Ballroom Foyer
7:00 am - 8:00 am	SFRA - Sweep Frequency Response Analysis - User Group, Part 1	St. George
7:30 am - 9:00 am	ACCA (Arresters, Capacitors, Cables & Accessories) Committee Meeting	America Ballroom North
8:00 am - 3:00 pm	Industry Expo Breakdown	Essex Foyer, Ballroom & Staffordshire
9:00 am - 12:00 pm	RM (Rotating Machinery) Session	America Ballroom Center
10:00 am - 11:30 am	DGA of LTCs (Dissolved Gas Analysis of Load Tap Changers) Subcommittee Meeting	America Ballroom North
12:30 pm - 1:30 pm	SFRA - Sweep Frequency Response Analysis - User Group, Part 2	St. George
1:30 pm - 5:00 pm	RM (Rotating Machinery) Session continues	America Ballroom Center
1:30 pm - 5:00 pm	ACCA (Arresters, Capacitors, Cables & Accessories) Session	America Ballroom South
5:00 pm - 6:30 pm	TX (Transformers) Committee Meeting	America Ballroom North
6:00 pm - 10:00 pm	Oil Committee Meeting & Dinner	St. George
7:00 PM	Hospitality Suites Open	7th Floor & Other floors
Thursday, April 13, 2006		
7:00 am - 7:00 pm	Registration and Information Desk Open	America Ballroom Foyer
7:30 am - 12:00 pm	CB (Circuit Breakers) Session	America Ballroom North & Center
12:00 pm - 1:30 pm	TTUG (Time Travel User Group) Meeting	St. George
12:00 pm - 1:30 pm	Advisory Committee Lunch & Meeting	Adams (7th floor)
1:30 pm - 5:00 pm	TX (Transformers) Session	America Ballroom North & Center
6:00 pm - 7:00 pm	Client Reception	America Ballroom Foyer
7:00 pm - 9:00 pm	Client Dinner	America Ballroom
Friday, April 14, 2006		America Ballroom
7:00 am - 12:00 pm	Registration and Information Desk Open	America Ballroom Foyer
7:30 am - 12:00 pm	TX (Transformers) Session	America Ballroom North & Center





# The 2006 International Conference of Doble Clients

*The agenda for this year's event is based on the traditional Doble Client Conference program and includes the Client Committee meetings ("Blue Badge" delegates only) and the respective sessions of technical presentations for each of the eight primary Client Committees.*

*User Group Meetings and Tutorials are added around these meetings and sessions. Open during mid-day breaks and after the main sessions on Monday and Tuesday, the Industry Expo gives Conference delegates the opportunity for refreshment and networking with colleagues and exhibitors. In the evenings, various organizations invite attendees to their Hospitality Suites for a more informal networking experience.*

## Registration & Information

Conference Registration and  
Information Desk  
Westin Hotel 4th Floor

All Conference attendees and  
Exhibitors **MUST** stop by the  
Doble Registration Desk to check  
in and obtain their name badge  
prior to attending any Conference or  
Industry Expo events.

### Registration Hours:

Sunday, April 9	11:00 am – 7:00 pm
Monday, April 10	7:00 am – 6:00 pm
Tuesday, April 11	7:00 am – 6:00 pm
Wednesday, April 12	7:00 am – 6:00 pm
Thursday, April 13	7:00 am – 7:00 pm
Friday, April 14	7:00 am – 12:00 pm

**The 2006 program kicks off with a tutorial on Transformer Internal Inspections on Sunday afternoon from 1-5 pm, followed by a Welcome Reception and the opening of the Industry Expo. The traditional Thursday night dinner provides an enjoyable break towards the end of the intensive program.**

**What follows here, in the Electric Energy Magazine's Official Conference and Show Guide, is a detailed schedule of the week's events.**

**Important: Name badges are required for admission to all Conference sessions, Client Committee Meetings, and other events.**

**Important note regarding Supplier/Manufacturers who are not Doble Clients:**

Supplier/Manufacturers who are not Doble Clients are not permitted access to Conference activities, other than the Industry Expo and Welcome Reception. If you are not certain of your status, ask at the Registration Desk.



## Earn Continuing Education Credit for Attending this Doble Conference!

### What are Continuing Education Credits (CEUs)?

Doble Engineering is an Authorized Provider of Continuing Education Credits (CEUs) through the International Association of Continuing Education and Training (IACET). Continuing Education Credits provide a permanent record of the educational accomplishments of an individual who has completed one or more significant educational experiences. Awarding the CEUs approved by IACET also provides a quality indicator for Doble's continuing education and training programs because it means Doble has been reviewed and approved for complying with internationally recognized standards. One Continuing Education Unit (CEU) is defined as ten content hours of participation in an organized continuing education experience under responsible sponsorship, capable direction, and qualified instruction. CEUs are issued at all Doble Seminars and Conferences that meet the IACET standards.

**Delegates to the 2006 International Conference of Doble Clients may earn a maximum of 4.8 CEU credits (based on attendance from Sunday at 1 pm through Friday at 12:30 pm).**

Note: CEUs are calculated at a rate of 1.0 CEU for every 10 hours of instruction or sessions.

### Where are CEUs Accepted?

Continuing Education credits are widely accepted by colleges and educational institutions as official credits towards professional licensing requirements and degree programs. As the organization's name implies, the CEUs are offered for classes held anywhere in the world, provided the event meets IACET criteria.

For more information on where Doble CEUs are accepted, go to:

[http://www.iacet.org/resources/accept\\_ceu.asp](http://www.iacet.org/resources/accept_ceu.asp)

### What are "Learning Outcomes?"

Learning Outcomes give attendees a guideline of the topics that will be covered during the event and the knowledge attendees can expect to gain during the event.

At the 2006 International Conference of Doble Clients, surveys will be distributed. These surveys will outline the Learning Objectives to be achieved during that day's Conference program. Your completion of these daily surveys provides Doble with a record that you attended the day's events and are eligible to receive the corresponding CEUs.



### How can I obtain a record of my received Continuing Education Credits (CEUs) from Doble?

All event participants can obtain their CEU credit records by contacting [CEU@doble.com](mailto:CEU@doble.com).

Doble will retain records of attendance at CEU events for a minimum of seven years. This information will only be released to the attendee themselves or at the request of their company. In order to obtain a copy of your transcript, participants must submit a written request in order to obtain their records (e-mail is acceptable). Requests will NOT be taken over the phone! If someone other than the actual participant requests information, the participant in question will be notified to obtain approval before the request is honored.

### Presenter Information

Important: All Conference Presenters are required to check in at the Presenter Check-in Desk, located on the 4th Floor, at least 24 hours before their scheduled technical presentation. Please be prepared to provide a copy of your paper and PPT presentation on CD or disk.

### Technical Documents

Preliminary Technical Presentations will be posted on the Doble Web site. Additional files will be added to the site as they are received, formatted and approved.



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## Access to 2006 Conference Presentations



An e-mail message with the link to the preliminary technical documents will be sent to all registered Doble clients and guests in early April. Be sure to include both your name and your company's name in your message. The 2006 Conference Documents can also be accessed on the Doble Portal using your company ID and password.

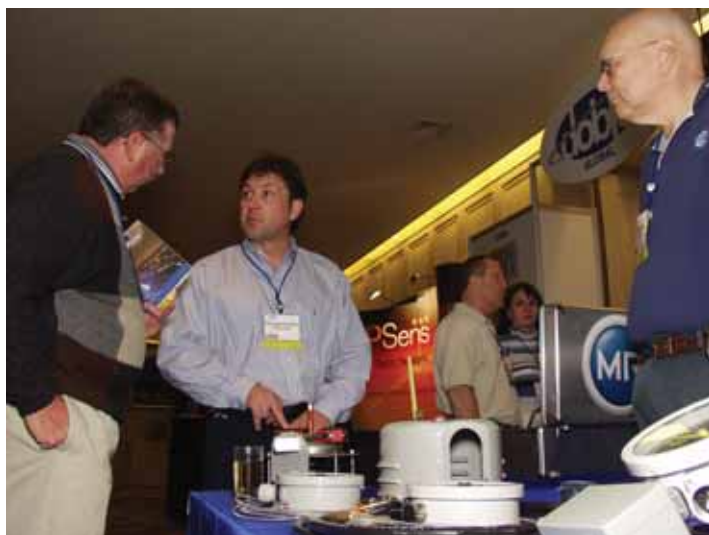
Hard copies of the 2006 Conference documents will not be distributed at the conference. However, a self-service station equipped with computers and printers will be available for you to review and print presentations.

## Companion Activities

Companions of Conference delegates are requested to wear their name badges to all activities and events. Spouses, family members, and companions of Conference attendees are invited to visit the Doble Companion Meeting Room to meet with others, and plan recreational activities, as the guests of Doble Engineering. The room will be open each day, from 8:30 – 10:30 am.

### Companion Meeting Room Locations:

Monday, April 10	Turners Restaurant
Tuesday, April 11	Daniel Webster
Wednesday, April 12	Daniel Webster
Thursday, April 13	Daniel Webster
Friday, April 14	Daniel Webster



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Visit us at the following events:  
2006 Doble International Client Conference - Booth 19  
IEEE PES Transformer Conference and Expo - Booth 329



### Companion Activities:

**Sunday, April 9**

#### Conference Welcome Reception

5:00 pm – 7:00 pm

Essex Ballroom & Staffordshire, 3rd Floor

Companions are welcome to attend this evening reception as well as the receptions in the Industry Expo on Monday and Tuesday evenings. Companions will receive drink tickets for these receptions when they pick up their name badges.

**Monday, April 10**

#### Companion "Ice-Breaker" Brunch

Turners Restaurant

Companions only! There is no charge to attend this event, and we encourage all guests of attendees to come to this brunch reception. You'll have the opportunity to meet other guests and get acquainted while enjoying the ambiance of Turner Fisheries. Great door prizes to be given away - please come!

**Note:** After Monday, companions are "on their own" for breakfast. The Companion Meeting room is designated as a meeting area for Companions on Tuesday – Friday mornings.

### Companion Tours:

Pre-registration is required. Availability is limited, participation is on a first-come basis. Sign up at the Registration Desk on the 4th floor foyer. No tours planned for Monday.

**Tuesday, April 11**

#### Full day trip to Foxwoods

With six casinos, more than 7,400 slot machines, 388 table games, and the world's largest bingo hall, Foxwoods has become an internationally recognized gaming destination. But the offerings go beyond gambling. The Mashantucket Pequot Museum and Research Center, the largest tribal museum and learning center in the world, is located just a mile from the resort. Dining options for lunch range from gourmet, to casual, to express, with restaurants such as Cedars Steakhouse, Han Garden, Al Dente, Hard Rock Cafe, Amy Ruth's and more. And let's not forget about shopping - more than 12,000 square feet of shopping under one roof!



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 Depart Westin: 9:00 AM, Arrive Foxwoods: 11:00 AM; Depart Foxwoods: 4:00 PM, Return to Westin: 6:00 PM.

**OR** – for those not interested in going to Foxwoods on Tuesday....

Back by popular demand!

### **Westin Chef's Tasting**

12:00 pm – 2:00 pm

Cost: \$59.00 per person

Attendees should assemble at

Fourth Floor Registration Desk at 11:45 am

Those not going to Foxwoods Casino are invited to the Westin's Chef as he demonstrates a variety of items that you can prepare in your own home. Learn the professional secrets behind these menu selections, and enjoy the fruits of your labor at a lovely gourmet lunch made especially for you!



### **Wednesday, April 12**

#### **Shopping at Wrentham Village Outlets**

Be there the minute the stores open for business! Enjoy stress-free shopping and impressive savings (25-65% every day) in your choice of 170 outlet stores designed as a New England style village. Offerings range from today's most popular designer fashions and sportswear, to shoes, fine leather, luggage, accessories and jewelry, housewares, home furnishings, gifts, and specialty items. Shops include Banana Republic, Barneys New York, Bebe, Burberry, Coach, Gap, Hugo Boss, Kenneth Cole, Liz Claiborne, Nike, Nine West, Polo Ralph Lauren, Reebok, Salvatore Ferragamo, Sony, Timberland, Williams-Sonoma, and many more. Be sure to leave some time for lunch at Friendly's, Ruby Tuesday, The Village Cafe, or save time with a quick meal at the Main Street Eatery Food Court.

Cost: \$15.00 per person (lunch not included)

Depart Westin: 9:00 AM

Arrive Wrentham Outlets: 10:00 AM,

Depart Wrentham Outlets: 2:00 PM

Return to Westin: 3:00 PM



### **Thursday, April 13**

#### **Tour of Historic Lexington & Concord**

Whether you're a history buff or just enjoy some sightseeing, this tour is not to be missed! See the highlights of historic Cambridge and Harvard Yard, following the route of Paul Revere to Lexington and Concord. Stand on the Lexington Green, where Captain Jonathan Parker and 77 Minutemen stood their ground against 700 of England's finest regulars. In Concord, drive past the homes of Hawthorne, Alcott, and Emerson, and discover the Old North Bridge, where "the embattled farmers stood and fired the shot heard 'round the world." Top off the experience with a three-course lunch at the historic Concord Colonial Inn. This landmark inn was originally built in 1716 and has been in operation as a hotel since 1889. The relaxing atmosphere captures the true spirit of New England, with delectable seafood entrees and homemade desserts.

Cost: \$50.00 per person (includes lunch)

Depart Westin: 10:00 AM

Return Westin: 3:00 PM

#### **Thursday Evening Client Reception & Banquet 6:00 pm, America Ballroom, 4<sup>th</sup> floor**

Join other conference delegates for this gala evening event! There is no charge for Doble clients and their companions – pre-registration and meal selection required.





## Doble Client Committees and Meeting Times

The annual Client Conference program is created by the Doble Client Committees, each having unique expertise in a particular area. These committees of clients and members of the Doble staff meet in September or October each year to plan the following Spring Conference.

In addition to the International Conference of Doble Clients, Doble also hosts regular conferences all over the world. The agenda and technical presentations are designed to meet the unique needs of each region.

### Client Committee Meetings:

#### Advisory (Committee Officers only)

Thursday, April 13, 12:00 pm – 1:30 pm,  
Adams Room, 7th Floor

#### Arresters, Capacitors, Cables and Accessories (ACCA)

Wednesday, April 12, 7:30 am – 9:30 am,  
America North, 4th Floor

#### Asset and Maintenance Management (AMM)

Monday, April 10, 9:00 am – 10:30 am,  
America North, 4th Floor

#### Bushings, Insulators and Instrument Transformers (BIIT)

Monday, April 10, 10:30 am – 12:00 pm  
America North, 4th Floor

#### Circuit Breakers (CB)

Monday, April 10, 1:30 pm – 3:00 pm  
America North, 4th Floor

#### EuroDoble

Monday, April 10, 12:00 pm – 1:30 pm  
Defender, 7th Floor

#### Insulating Materials (IM)

Monday, April 10, 4:00 pm – 5:30 pm  
America North, 4th Floor

#### Oil Committee Dinner (members only)

Wednesday, April 12, 6:00 pm – 7:00 pm  
St. George, 3rd Floor

#### Oil Committee Meeting

Wednesday, April 12, 7:00 pm – 10:00 pm  
St. George, 3rd Floor

#### Rotating Machinery (RM)

Tuesday, April 12, 1:30 pm – 3:00 pm  
America North, 4th Floor

#### Transformers (TX)

Wednesday, April 13, 5:00 pm – 6:30 pm  
America North, 4th Floor

**Note:** The Protection Appartus Test Committee (PAT) will not be holding a meeting at the 2006 April Conference

### Who can attend Doble Client Committee Meetings?

All attendees with a blue badge can attend the Client Committee meetings: Doble clients and guests from one of the following categories: Electric Power Utilities, Industrial Maintenance Divisions, and Non-Manufacturing Test and Maintenance Service Companies. All "blue badge" attendees are welcome to attend the Client Committee meetings, regardless of whether they are an official member of that Committee. The exception to this rule is the Oil Committee, which is for members or invited guests only.

### How to Join a Committee

If you represent an Electric Power Utility, Industrial Maintenance Division, or Non-Manufacturing Test and Maintenance Service Company and are interested in joining a committee, please contact or speak to the committee secretary. Members are expected to participate in the activities of the committee, which include deciding papers and themes for future conferences and completing technical questionnaires relating to the committee.

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## Detailed Schedule of Sessions and Events

### Software User Groups & Meeting Times

In addition to the Doble Client Committees, there are four User Groups, which will also be meeting at the Conference:

#### IDD User Group

Monday, April 10, 7:00 am – 8:00 am, Defender, 7th Floor

#### DTA User Group

Monday, April 10, 12:00 pm – 1:30 pm, American Center, 4th Floor

#### SFRA User Group - Part 1

Wednesday, April 12, 7:00 am – 8:00 am, St. George, 3rd Floor  
Recommended for existing Doble SFRA users - hardware, software and test application issues will be discussed.

#### SFRA User Group - Part 2

Wednesday, April 12, 12:30 pm – 1:30 pm, St. George, 3rd Floor  
Open to all Conference delegates - you do not need to be an existing SFRA user to benefit from this meeting. Case studies and interpretation of results will be discussed

#### Time Travel User Group (TTUG) formerly TRX User Group

Thursday, April 13, 12:00 pm – 1:30 pm  
St. George, 3rd Floor

**Note:** Refreshments will be provided at the User Group Meetings



### Sunday, April 9

#### Registration and Information Desk Open

11:00 am – 7:00 pm, 4th Floor Foyer

#### Tutorial: Transformer Internal Inspections Guidelines

1:00 – 5:00 pm, America Center & South, 4th Floor

Transformer internal inspections have historically helped to determine the acceptability of a transformer upon receipt. The technique can also be used to confirm and sometimes allows a problem within the transformer to be fixed in the substation. The internal inspection has many times been helpful to save time, expense and shorten outage times.

We are fortunate to have four Doble clients that have become experts in internal inspections. David Deines of Progress Energy Florida, Harry Ruggles of American Electric Power, Greg Bennett of Excel Energy and Phil Prout of National Grid have volunteered their expertise to help others perform internal inspections. They have gained their experience first hand by actually jumping into the tanks and getting oily. Come learn and see if your company needs to incorporate internal inspection of transformers to your diagnostic tools. There will be a question and answer period so you can voice your concerns and experiences.

#### The following topics will be covered in this sponsored tutorial:

- Safety, Confined Space and Combustible Gas Concerns.
- Training, Preparation, Clothing, Tools, Where NOT to Step.
- Justification of the Internal Inspection.
- When to Perform Inspections, Pre-Tanking Inspections, Receipt Inspections, and Post Fault Inspections.
- Inspection Checklist, List of Typical Findings.
- Pictures of Problems, Internal Pictures, Internal Video, Bore Scope Use.
- Preventing Moisture Ingress during Inspections.
- Impact Recorders.

#### Welcome Reception and Industry Expo

5:00 pm – 7:00 pm, Staffordshire Room, Essex Ballroom and Foyer, 3rd Floor

Meet with other Conference attendees and enjoy complimentary refreshments at this first social event of the week.

#### Hospitality Suites Open

7:00 pm



## Monday, April 10

### Registration and Information Desk Open

7:00 am – 6:00 pm, 4th Floor Foyer

### IDD User Group Meeting

7:00 am – 8:00 am, Defender, 7th Floor

### Newcomers Orientation

7:00 am – 8:00 am, America North, 4th floor

All Conference Newcomers are encouraged to attend. This is designed to provide you with the opportunity to meet some key individuals and available Committee Officers and will give you a chance to ask any questions about how the Client Committees and Conference work. Wayne Bishop Jr., Services Product Manager, will make an introductory presentation and explain the scope of the week's Conference activities.

### Opening Session and Keynote Address

8:00 am – 9:00 am, America Center and South, 4th Floor

The Conference officially kicks off with a brief welcome and remarks from Doble Engineering and the Doble Client Committee Chair Greg Bennett of XCel Energy.

The Keynote address "Maintenance doesn't cost - It Pays!" will be given by Don Schubert of Marsh USA. Mr. Schubert will present some interesting information from the insurance industry on the alarming increase in transformer failures and the direct correlation to reduced maintenance and testing to support life assessment assumptions.

Sponsored by the Westin Hotel - A complimentary continental breakfast will be provided in the America Ballroom Foyer, prior to the Opening Session.

### Companion "Ice Breaker" Brunch (Companions Only!)

8:30 am – 10:30 am, Turners Restaurant

### Asset & Maintenance Management Committee Meeting

9:00 am – 10:30 am, America North, 4th Floor

### Bushings, Insulators & Instrument Transformers Committee Meeting

10:30 am – 12:00 pm, America North, 4th Floor

### Industry Expo Open

11:00 am – 1:30 pm (light lunch in expo hall)

Staffordshire Room, Essex Ballroom and Foyer, 3rd Floor

### DTA – Doble Test Assistant - User Group Meeting

12:00 pm – 1:30 pm, American Center, 4th Floor

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- Asset management
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- Prevents outage and catastrophic failures.

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Boston, MA, Booth #4  
April 09, 2006 – April 11, 2006  
Contact us at [sales@fiso.com](mailto:sales@fiso.com) or  
Phone: (418) 688-8065



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



## Detailed Schedule of Sessions and Events

### **EuroDoble Committee Meeting**

12:00 pm – 1:30 pm, Defender, 7th floor

### **Circuit Breakers Committee Meeting**

1:30 pm – 3:00 pm, America North, 4th Floor

### **Asset & Maintenance Management Session**

1:30 – 5:00 pm, America Center, 4th floor

### **Tutorial: Diagnosis of Partial Discharges in High Voltage Insulation Systems**

2:30 pm – 4:30 pm, St. George, 3rd Floor

### **Basic Power Factor Training**

3:00 pm – 6:00 pm, America South, 4th Floor

### **Insulating Materials Committee Meeting**

4:00 pm – 5:30 pm, America North, 4th Floor

### **Industry Expo Open**

5:00 pm – 7:00 pm

Staffordshire Room, Essex Ballroom and Foyer, 3rd Floor

### **Committee Officers Dinner -By Invitation**

6:30 pm – 9:30 pm, Algonquin Club

### **Hospitality Suites Open**

7:00 pm







## Tuesday, April 11

### Registration and Information Desk Open

7:00 am – 6:00 pm, 4th Floor Foyer

### Bushings, Insulators & Instrument Transformers (BIIT) Session

7:30 am – 12:00 pm, America South and Center, 4th Floor

### Industry Expo

11:00 am – 1:30 pm (light lunch in expo hall)

Staffordshire Room, Essex Ballroom and Foyer, 3rd Floor

### Insulating Materials Session

1:30 pm – 6:30 pm, America South, 4th Floor

### Rotating Machinery Committee Meeting

1:30 pm – 3:00 pm, America North, 4th Floor

### Industry Expo Exhibitor Meeting

3:00 pm – 4:00 pm, St. George A and B, 3rd Floor



### Industry Expo

5:00 pm – 7:00 pm

Staffordshire Room, Essex Ballroom and Foyer, 3rd Floor

### Hospitality Suites Open

7:00 pm

### Field Processing Subcommittee Meeting and Dinner

7:00 pm – 9:00 pm, St. George, 3rd Floor

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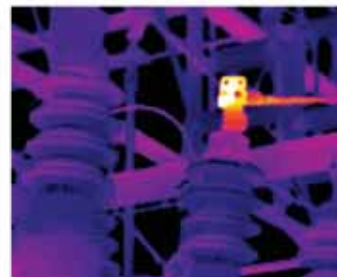
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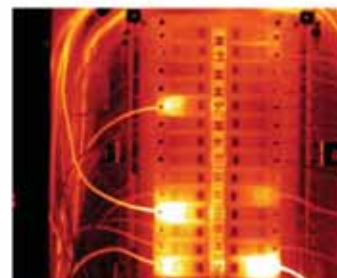


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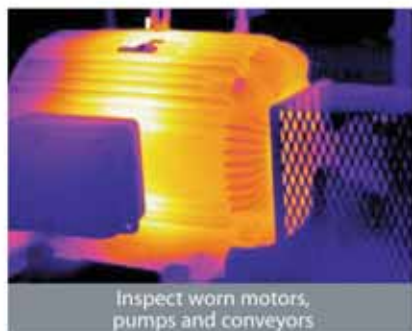
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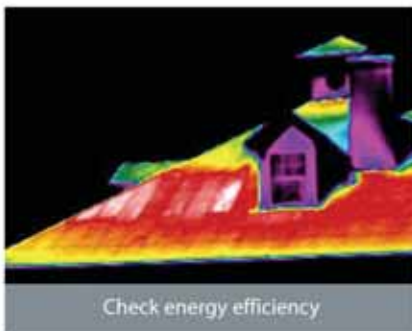
*Which camera is best for YOU?*



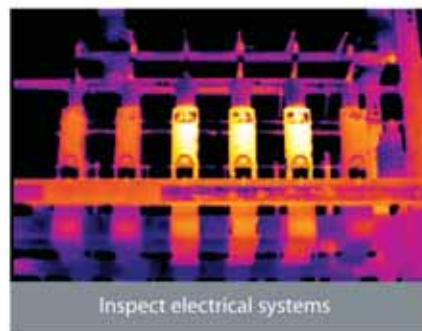
Inspect worn motors,  
pumps and conveyors



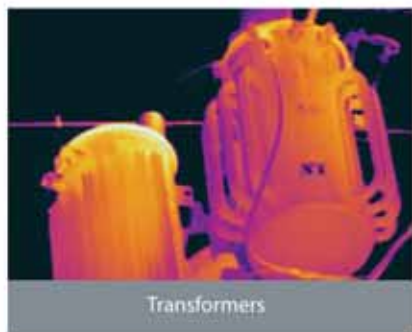
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## Detailed Schedule of Sessions and Events

### Wednesday, April 12

#### **Registration and Information Desk Open**

7:00 am – 6:00 pm, 4th Floor Foyer

#### **SFRA User Group - Part 1**

7:00 am – 8:00 am, St. George, 3rd Floor

#### **Arresters, Capacitors, Cables & Accessories Committee Meeting**

7:30 am – 9:30 am, America North, 4th Floor

#### **Doble Product Pavilion Open**

11:00 – 1:30 pm, Staffordshire, 3rd Floor

#### **SFRA User Group - Part 2**

12:30 pm – 1:30 pm, St. George, 3rd Floor

#### **Rotating Machinery Session**

9:00 am – 12:00 pm; 1:30 pm – 5:00 pm, America Center, 4th Floor

#### **DGA of LTCs Subcommittee Meeting**

10:00 am – 11:30 am, America North, 4th Floor

#### **Arresters, Capacitors, Cables & Accessories Session**

1:30 pm – 5:00 pm, America South, 4th Floor

#### **Transformers Committee Meeting**

5:00 pm – 6:30 pm, America North, 4th Floor

#### **Oil Committee Dinner**

6:00 pm – 7:00 pm, St. George, 3rd Floor

#### **Oil Committee Meeting**

7:00 pm – 10:00 pm

St. George, 3rd floor

#### **Hospitality Suites Open**

7:00 pm

### Thursday, April 13

#### **Registration and Information Desk Open**

7:00 am – 7:00 pm, 4th Floor Foyer

#### **Circuit Breakers Session**

7:30 am – 12:00 pm, America South, 4th Floor

#### **TTUG User Group**

12:00 pm – 1:30 pm, St. George, 3rd Floor

#### **Advisory Committee Lunch & Meeting**

12:00 pm – 1:30 pm, Adams, 7th floor

#### **Transformers Session**

1:30 pm – 5:00 pm, American North and Center, 4th Floor

#### **73rd Annual Conference Reception and Dinner**

6:00 pm – 9:00 pm, America Ballroom, 4th floor

Doble Clients and guests are invited to attend this traditional dinner event. Dinner tickets are required and can be obtained at the Registration Desk. Deadline for dinner reservations is 12:00 pm on Monday, April 10.

Cocktails and hors d'oeuvres will be served in the America Foyer (4th Floor) from 6:00 pm – 7:00 pm. Dinner commences at 7:00 pm in the America Ballroom.

### Friday, April 14

#### **Registration and Information Desk Open**

7:00 am – 12:00 pm, 4th Floor Foyer

#### **Transformers Session**

7:30 am – 12:00 pm, America Center and North, 4th Floor

**The Conference officially ends at 12:00 pm on Friday**



# 2006 International Conference of Doble Clients Exhibiting Companies

In conjunction with the 2006 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 attending the Client Conference are welcome to attend. The Industry Expo will be held on the 3rd floor of the Westin Hotel Copley Place.

## 2006 Industry Expo Show Hours:

### Sunday, April 9, 2006

5:00 pm - 7:00 pm--Welcome Reception and Opening of the Industry Expo

### Monday, April 10, 2006

11:00 am - 1:30 pm--Afternoon Industry Expo (light lunch provided)

5:00 pm - 7:00 pm--Evening Industry Expo Hours

### Tuesday, April 11, 2006

11:00 am - 1:30 pm--Afternoon Industry Expo (light lunch provided)

5:00 pm - 7:00 pm--Evening Industry Expo Hours

Refreshments will be served during Industry Expo hours.

### Enter the Industry Expo Raffle!

All Conference delegates will have multiple opportunities to win raffle prizes. Have your badge scanned at Expo Booths and Hospitality Suites to enter to win!

### Doble Product Pavilion

Staffordshire Room, 3rd Floor

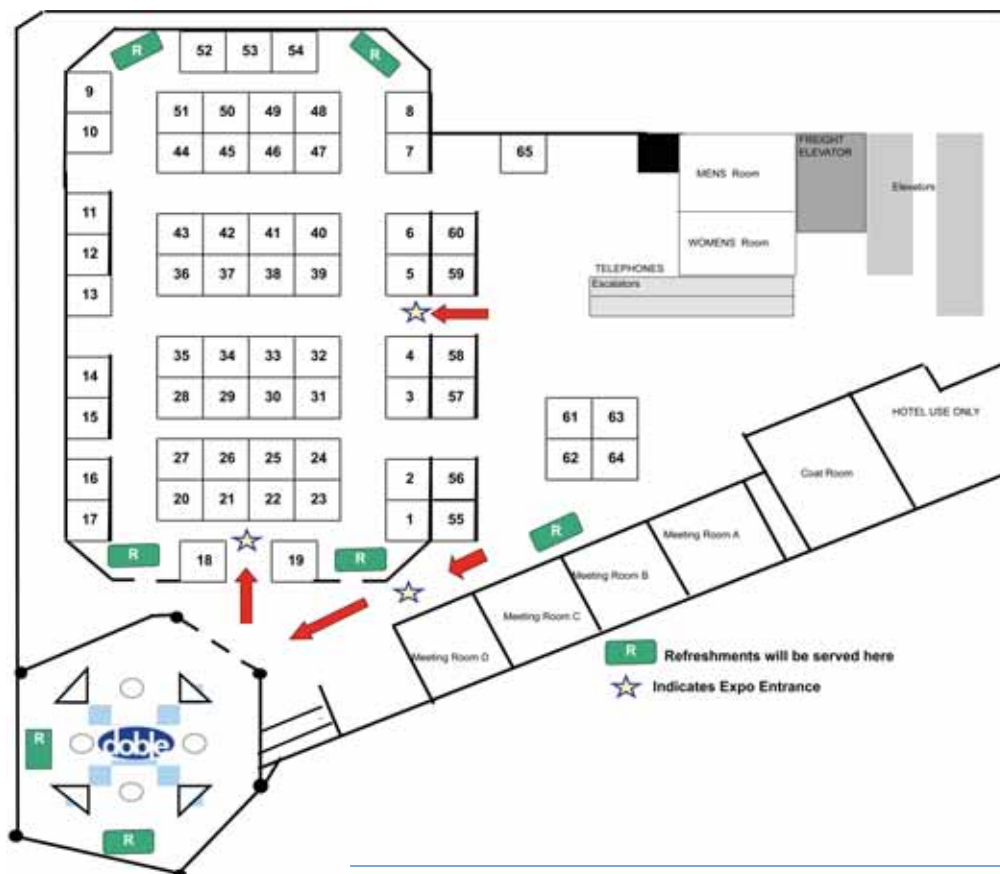
Doble diagnostic instruments and software systems will be on display during the Client Conference. Doble Engineering staff will be available to discuss the products and conduct demonstrations.

This year, Doble Engineering will be offering "Mini Tutorials" during Industry Expo Hours. These brief training sessions will allow delegates to learn more about a particular topic in a short period of time.

## Company

## BOOTH #

AGT Services Inc .....	51
American Electrical Testing Co.,Inc. ....	13
Arbiter Systems Inc.....	12
AREVA T&D Inc. ....	65
Cannon Technologies, Inc.....	23
Colt Atlantic Services, Inc. ....	5
Cooper Power Systems .....	14
COSA Instrument Corporation .....	15
DMC - Deutsch Metal Components .....	36
Delta Instrument LLC .....	43
Delta X Research, Inc.....	11
Digital Inspections, a KEMA Company .....	11
Doble Engineering Company .....	Staffordshire
Dynamic Ratings, Inc. ....	6
Electric Energy T & D / Jaguar Publications ..	59
Electricity Today Magazine.....	49
Electro Composite Inc. ....	32
Environmental Protection Services .....	7
FISO Technologies .....	4
FLIR Systems .....	58
Foster Miller .....	27
Furmanite .....	8
GE Energy .....	46-47
Hawk IR International Ltd.....	2
Jordan Transformer, LLC .....	33
Kelman .....	20-21-22
Luxtron Corp. ....	19
Megger.....	9 & 10
Midsun Group Inc .....	48
Mikron Infrared, Inc.....	35
Morgan Schaffer .....	3
Neoptix Fiber Optic Sensors, Inc. ....	45
NETA .....	44
Normandy Machine Company .....	24
Nynas USA Inc .....	18
Opsens .....	29
Phenix Technologies, Inc. ....	25
Power Asset Recovery.....	52
Qualitrol Company LLC.....	16
Reinhausen .....	57
S & C Electric Co .....	56
S.D. Myers .....	54
Schweitzer Engineering Laboratories Inc .....	62
Serveron .....	37
Siemens Service Solutions .....	1
Solidification Products International Inc. ....	60
Solomon Corporation .....	53
Southern States, LLC.....	42-41
Team Industrial Services .....	34
The Von Corporation .....	50
Unifin International LP.....	63-64
Utility Automation & Engineering .....	61
Velcon .....	17
VTCU Corp. ....	26
Waukesha Electric Systems, Inc. ....	38-39
Weidmann-ACTI .....	30-31
Woodgroup Generator Services .....	55
Zensol Automation Inc. ....	28





## 2006 International Conference of Doble Clients Exhibiting Companies

### AGT Services

7 Sam Stratton Road  
Amsterdam, NY 12010  
518-843-1112  
Fax: 518 843 8389

Brian Jones

[brian@agt-services.com](mailto:brian@agt-services.com)

<http://www.agt-services.com>

AGT Services provides full service generator consulting, testing, and repair for all makes and models of turbine generators. Our engineering and field service personnel offer more than 200 years of combined generator design and repair experience.

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### American Electrical Testing Co., Inc.

480 Neponset Street, Building 3  
Canton, MA 02021  
781-821-0121  
1-800-99AETCO

Company Contact: Charles K. Blizard, Jr.

Marketing Contact: Paul M. Kelly

[pkelly@99aetco.com](mailto:pkelly@99aetco.com)

[www.99aetco.com](http://www.99aetco.com)

American Electrical Testing Co., Inc. maintains a staff of highly-trained, NETA-certified field service engineers and technicians offering power system studies and complete engineering and testing services for acceptance, maintenance, retrofit and repair of electrical power distribution systems and equipment from low voltage through 345KV.

### Arbiter Systems Inc

1324 Vendels Circle, Suite 121  
Paso Robles, CA 93446  
Christine Greco  
805-237-3831

[cgreco@arbiter.com](mailto:cgreco@arbiter.com)

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

Arbiter Systems, the leader in GPS timing products that include the industry's most accurate portable three-phase power meter (Model 931A Power System Analyzer), recently introduced the Model 1133A Power Sentinel. The new model provides GPS-synchronized real time measurements for revenue metering, power quality monitoring, and synchro-phasors as per the IEEE 1344 Standard (20/s).

### Booth 51

### AREVA T&D Inc.

One International Plaza, Suite 300  
Philadelphia, PA 19113

484-766-8100

Customer Care: 888-AREVA-TD

[gayle.wooster@areva-td.com](mailto:gayle.wooster@areva-td.com)

[www.areva-td.com](http://www.areva-td.com)

AREVA T&D designs, manufactures, and distributes a complete range of equipment, systems, and services for all stages in the transfer of electricity, from generator to large end user. With manufacturing facilities in 40 countries and a sales network in more than 100, AREVA offers customers reliable technological solutions for CO2-free power generation and electricity transmission and distribution.

### Cannon Technologies, Inc

8301 Golden Valley Road  
Suite 300

Minneapolis, MN 55427

Mike Cannon: 712-279-8750

[mikec@cannontech.com](mailto:mikec@cannontech.com)

Dave Snyder: 804-360-3282

[DSnyder@cannontech.com](mailto:DSnyder@cannontech.com)

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

Cannon Technologies has been providing integrated distribution automation tools for the utility industry since 1987. With over 300 electric utility customers, Cannon is an end-to-end technology company offering innovative software, custom and third party hardware, support, and service.

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### Colt Atlantic Services, Inc.

Ian Barford

1845 South Lee Court, Suite C

Buford, GA 30518

770-831-8135

866-572-5325

[ian@coltonline.com](mailto:ian@coltonline.com)

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

Colt Power Services Division provides under pressure leak sealing service to the electrical generation, transmission, and distribution industry. Transformer oil, nitrogen, silicone and SF6 gas leaks are repaired, documented and guaranteed for two years. Thousands of repairs have been successfully completed by Colt, and each one is documented. These include repairs made to: flapper valve flanges, packings, pump flanges, cover plates, belly bands, tap changers, threads, plugs, temperature and level probes, bushings, and more. Colt makes on-site inspections and provides lump-sum quotations on request. Technicians are trained per OSHA 29CFR1910.331-335, ANSI C2 and NFPA-70E and OSHA 1910.269.

### Booth 65

### Cooper Power Systems

1045 Hickory Street  
Pewaukee, WI 53072

Main Tel: 262-691-0070

Michelle Neira, Marketing

Tel: 262-691-8241

[mneira@cooperpower.com](mailto:mneira@cooperpower.com)

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

Cooper Power Systems is a subsidiary of Cooper Industries, a diversified worldwide manufacturer of products to the electrical, commercial, and industrial markets. Cooper Power Systems manufactures distribution transformers, distribution switchgear, reclosers, capacitors, protective relays, voltage regulators, automated switches, cable accessories, surge arresters, transformer components, fuses, enclosures, pole-line hardware, tools, and engineering services for the electrical and industrial markets.

### Booth 23

### COSA Instrument Corporation

84G Horseblock Road

Yaphank, NY 11980

631-354-3434

201-767-6600

[cosa@cosaic.com](mailto:cosa@cosaic.com)

[www.cosa-instrument.com](http://www.cosa-instrument.com)

COSA Instrument Corporation/Xentaur, headquartered in Yaphank, NY, USA, is a manufacturer and nationwide distributor of industrial instrumentation, specializing in high technology analyzers for a wide range of applications in laboratory and process. It is the leading distributor of moisture measurement instrumentation servicing the electric utility substation maintenance industry.

### Delta Instrument LLC

148 Veterans Drive

Northvale, NJ 07647

Mal Schneider

201-768-7200

Fax: 201-768-5020

[mschneider@deltainstrument.com](mailto:mschneider@deltainstrument.com)

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

Delta Instrument supplies a full line of process analyzers to the industrial, power, refining, and utility industries, including dewpoint analyzers, emission and combustion analyzers, multiport, self-averaging flow meters, and fuel gas heating value transmitters.

### Booth 14

### Booth 15

### Booth 43



## 2006 International Conference of Doble Clients Exhibiting Companies

### Delta X Research, Inc.

PO Box 42083  
2200 Oak Bay Avenue  
Victoria BC Canada V8R 6T4  
919-544-8191  
[www.deltaxresearch.com](http://www.deltaxresearch.com)

Electric utilities and industrial plants test their high-voltage power transformers, circuit breakers, and related equipment to ensure safe and reliable operation. Delta-X Research software helps to record and interpret the test data.

Delta X Research's principal product, Transformer Oil Analyst (TOA), manages and interprets insulating oil dissolved-gas and physical test data. Its continuing improvement is based on research and development assisted by TOA users worldwide.

### Booth 11

### Digital Inspections, a KEMA Company

804A Buchanan Avenue  
Corvallis, OR 97330  
800-877-8783  
[info@digitalinspections.com](mailto:info@digitalinspections.com)  
[www.diginsp.com](http://www.diginsp.com)

At Digital Inspections, asset management comes down to one basic goal: extending the useful life of your equipment to reduce operating costs while avoiding costly equipment failure. This means the means the ability to know the current condition of a piece of equipment, what its maintenance cycles really need to be, and how long it can serve before needing replacement.

The Cascade system from Digital Inspections provides the ability to do these vital tasks for optimal asset management and equipment health. Cascade's ability to combine data from all critical outside sources means any asset can have the design of its maintenance procedures based on the health and risk-based triggers inherent to the equipment's current condition.

### Booth 11

### Deutsch Metal Components (DMC)

14800 S. Figueroa St.  
Gardena, CA 90248  
Rebecca Alia  
310-323-6200  
Fax: 310-329-2505  
[www.deutschco.com](http://www.deutschco.com)

DMC has over 60 years of experience making products for the commercial power industry. The company designs and manufactures compression connectors for substation bus, cable, and grounding. Our product lines include PowerLok®, CableLok®, and GroundLok®. These products use DMC's revolutionary 360° swage tooling to compress our connectors, creating a technically superior connection.

### Booth 36



## The Professional's Toolset for Power System Simulation

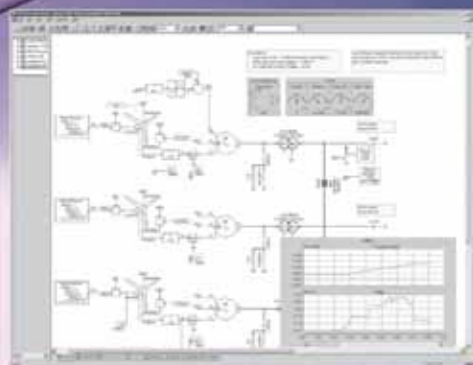
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## 2006 International Conference of Doble Clients Exhibiting Companies

### Doble Engineering Company

Doble Engineering  
85 Walnut Street  
Watertown, MA 02472 USA  
617-926-4900  
617-926-0528  
[www.doble.com](http://www.doble.com)

Doble Engineering has been supplying diagnostic instruments and engineering services to the electric power industry for decades. Doble also maintains the industry's most extensive resource library of apparatus test results and knowledge. Working in partnership to improve the performance of systems and operations, the company also maintains close working relationships with electric power companies all over the world.

Worldwide, Doble companies include: Doble PowerTest in the United Kingdom; TransiNor in Norway; Doble Australasia; Doble India and Doble China.

### Dynamic Ratings, Inc.

N59W 14339 Bobolink Avenue  
Menomonee Falls, WI 53051  
Tony Pink: 262-703-0792  
[tony.pink@dynamicratings.com](mailto:tony.pink@dynamicratings.com)  
[www.dynamicratings.com](http://www.dynamicratings.com)

Dynamic Ratings offers an economical transformer monitoring and control system, with a single connection that provides both control and monitoring of the system including cooling, LTC, and online monitoring and diagnostics.

Dynamic Ratings Pty Ltd is part of the Wilson Transformer group of companies, which include design, development, manufacture and service of distribution and power transformers in 3 countries and a joint venture with TJI H2b for oil and SF6 testing and diagnostics.

### Electric Energy Publications

1160 Levis, Suite 100  
Terrebonne, QC J6W 5S6 Canada  
888-332-3749 x 222  
Fax: 888-243-4562  
Steven Desrochers  
[steven@jaguar-media.com](mailto:steven@jaguar-media.com)  
[www.electricenseyonline.com](http://www.electricenseyonline.com)

Electric Energy is proud to be a sponsor of the 2006 International Conference of Doble Clients and publisher of this event's Conference and Show Guide.

From the boardroom to the field, whether it is the extensive newsletter, eZine, or print magazine, Electric Energy Publications delivers insightful, informative content. Watch the trends! Get the facts! Have the edge!

### Staffordshire

### Electro Composite Inc (ECI)

1919, Lionel-Bertrand  
suite 107  
Boisbriand (Quebec)  
Canada J7H 1N8  
450-430-1181  
Fax: 450-433-1888  
[info@eci-co.com](mailto:info@eci-co.com)  
[www.eci-co.com](http://www.eci-co.com)

Electro Composite Inc (ECI) manufactures a wide range of insulating products for the electrical market including high voltage apparatus bushings, station post replacement insulators, hydro generator pole insulation, as well as specialty insulation products for a wide range of applications.

### Electricity Today Magazine

The Canadian Electricity Forum  
204 - 15 Harwood Avenue South Ajax  
Ontario, Canada L1S 2B9  
905-686-1040  
Carol Gardner  
[carol@electricityforum.com](mailto:carol@electricityforum.com)  
[www.electricityforum.com](http://www.electricityforum.com)

In the rapidly changing climate of the North American power industry, Electricity Today remains committed to the buyers and sellers responsible for maintaining and operating utility and industrial, commercial and institutional power systems. In every issue, Electricity Today details the business and technical developments driving the power industry. As engineering, construction, and maintenance professionals search for solutions to today's problems, they turn to Electricity Today for articles that address the changing environment of the industry.

### Environmental Protection Services

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Wheeling, WV 26003  
304-232-1590 x 42  
Fax: 304-232-1599  
Brad Joseph  
[brjoseph@epsonline.com](mailto:brjoseph@epsonline.com)  
[www.epsonline.com](http://www.epsonline.com)

EPS specializes in installation, maintenance, and disposal of electrical equipment. This includes PCB, PCB-contaminated, and non-PCB disposal, energized transformer dechlorination, energized hot oil reclamation, installation/vacuum filling, and retrofills. The company also sells Trans-X oil, a reclaimed mineral oil dielectric fluid that meets the standards of virgin but is considerably less expensive.

### Booth 32

### FISO Technologies

500 Avenue St-Jean-Baptiste, Suite 195  
Quebec PG G2E 5R9 Canada  
418-688-8065  
[info@fiso.com](mailto:info@fiso.com)  
[www.fiso.com](http://www.fiso.com)

FISO Technologies Inc. designs, manufactures, and markets fiber optic sensors and high-precision measuring instruments for direct monitoring of substation assets and other challenging applications in the process control, energy, healthcare, and defense markets. Products are EMI-immune and designed for long-term reliability.

The Company has over 60 employees in Quebec and France, and FISO Technologies Inc. news releases and product information are available on the Internet at: <http://www.fiso.com>

### Booth 49

### FLIR Systems

16 Esquire Road  
North Billerica, MA 01862  
Tom O'Toole  
978-901-8000  
[www.flir.com](http://www.flir.com)

FLIR Systems, the global leader in infrared cameras and technology, provides electrical and utility professionals with the predictive maintenance tools needed for proactive inspection of electrical systems. FLIR's products enable comprehensive facilities inspection and condition monitoring and maintenance programs via non-invasive thermal imaging technology. The company's E-Series product line combines hand-held portability and convenience with cost-efficiency and great value, while the robust P-Series line features the most highly refined infrared inspection systems available today.

### Booth 7

### Foster-Miller, Inc.

350 Second Avenue  
Waltham, MA 02451  
781-684-4000  
[cbrockelman@foster-miller.com](mailto:cbrockelman@foster-miller.com)  
[www.foster-miller.com](http://www.foster-miller.com)

Foster-Miller's experience meeting the needs of the energy sector includes projects completed for gas and electric utilities, oil companies, pipeline companies, energy research organizations, and various federal and state government agencies. We have developed technologies, processes, and products for the different areas within the energy sectors including: production, generation, delivery, distribution, utilization, and conservation.

### Booth 4

### Booth 58

### Booth 27

### Furmanite

101 Old Underwood Road  
Building E  
La Porte, TX 77571  
281-842-5100  
Fax: 281-842-5111  
[www.furmanite.com](http://www.furmanite.com)

Furmanite is the worldwide innovator and leader in comprehensive on-site and on-line plant and pipeline maintenance. The company's mission is to maximize asset uptime for customers in industries such as oil and gas and power generation.

### Booth 8





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

GE (NYSE:GE) is a diversified technology, services and manufacturing company with a commitment to achieving customer success. GE operates in more than 100 countries and employs approximately 315,000 people worldwide. Our products and services range from power generation technology, energy services, and management systems to the latest technological products used to distribute, protect, and control electrical power and equipment. GE provides equipment, services and management solutions across the power generation, distributed power and utility industries.

#### Hawk IR International Ltd.

877-4HAWKIR  
[tony.holiday@hawk-ir.com](mailto:tony.holiday@hawk-ir.com)  
[www.hawk-ir.com](http://www.hawk-ir.com)

Infrared Thermography has been used for detection of electrical problems in equipment such as electrical switchgear and high voltage electrical components for many years. A conscientious thermal survey of electrical equipment involves recognizing the thermal indications of faults and taking as direct temperature measurements as possible. Hawk IR Sightglasses enable a safe visual, infrared, and non-destructive inspection of internal areas of protected closed cells. Permanently fitted onto switchboards, transformer panels, motor lead boxes, and cell doors, Hawk IR Sightglasses allow thermographers to clearly recognize thermal signature of problems during predictive maintenance without the need to open the enclosure.

#### Jordan Transformer, LLC

1000 Syndicate Street  
Jordan, MN 55352  
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 of 138 kV and below and also offers a full range of testing and field services.

With over 32 years of experience with utilities and industrial customers, the Jordan Transformer engineering and production departments are experienced with power transformers from virtually all original manufacturers and versed in all repairs from single phase, to substation, to mobile, to regular transformers.

Jordan Transformer repairs and rewinds substation transformers up to 50 MVA with voltages of 138 kV and below and also offers a full range of testing and field services.

With over 32 years of experience with utilities and industrial customers, the Jordan Transformer engineering and production departments are experienced with power transformers from virtually all original manufacturers and versed in all repairs from single phase, to substation, to mobile, to regular transformers.

**Booth 46-47**

#### Kelman Ltd.

4147 N. Ravenswood Avenue  
Chicago, IL 60613  
773-944-0693  
Fax: 773-944-0690

[mail@kelman-northamerica.com](mailto:mail@kelman-northamerica.com)  
[www.kelman-northamerica.com](http://www.kelman-northamerica.com)

Kelman provides innovative solutions for the power industry, with products designed to meet utility requirements that have been adopted around the world. The USA office is designed to facilitate Kelman's growing portfolio of Asset Management products from the established PROFILE P2 Circuit Breaker Analyzer to the revolutionary TRANSPORT X, the first in Kelman's new generation of dissolved gas analyzers (DGA).

The successful development of TRANSFIX, Kelman's on-line dissolved gas analyzer (DGA), which again incorporates Kelman's groundbreaking technologies, is the most recent addition to the Asset Management product family.

#### Luxtron Corporation

3033 Scott Blvd.  
Santa Clara, CA 95054-3316  
408 727-1600  
Fax: 408 727-1677

Judi Seavers: [jseavers@luxtron.com](mailto:jseavers@luxtron.com)  
[www.luxtron.com](http://www.luxtron.com)

Luxtron Corporation is the leading supplier of fiber optic temperature measurement systems for semiconductor, optoelectronic, power utility, industrial, and biomedical applications. Luxtron products are characterized by their inherent immunity to EMI/RF, industrial robustness, and safety in hostile or explosive environments. Our products enable users to accurately measure temperature in harsh environments.

#### Megger

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Dallas, TX 75237  
214-333-3201  
[Lori.allen@megger.com](mailto:Lori.allen@megger.com)  
[www.megger.com](http://www.megger.com)

Megger is a leading provider of high-quality, innovative electrical test and measuring equipment for power applications. Our equipment is used to test and maintain critical electrical apparatus including transformers, circuit breakers, motors, batteries, cable, protective relays, and more.

Megger test equipment is used worldwide by electrical test professionals in electric utilities, industrials, government, testing and engineering services, and telecommunications.

**Booth 20-21-22**

**Booth 19**

**Booths 9 & 10**



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### Midsun Group Inc

135 Redstone Street  
Southington, CT 06489  
860-378-0100

Fax: 860-378-0103

[tiradaw@midsungroup.com](mailto:tiradaw@midsungroup.com)

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

Midsun Group Inc. manufactures products designed to help utilities solve their flashover and animal outage problems. Specializing in silicone products such as coatings for insulating structures, insulator contamination protection, and corrosion protection, Midsun also carries a line of UV-resistant polycarbonate barriers and will design custom silicone or polycarbonate products to meet specific needs.

### Booth 48

### Mikron Infrared, Inc.

Thermal Imaging Division

Mikron Infrared, Inc.

1101 Elevation St., Suite 3

Hancock, MI 49930 USA

888-506-3900

Fax: 906-487-6066

Jon Chynoweth

[jon@mikroninfrared.com](mailto:jon@mikroninfrared.com)

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

Mikron Infrared, Inc. has been an innovative leader in the field of infrared non-contact temperature measurement since 1969. The company provides industrial customers and R&D laboratories with accurate instrumentation ranging from convenient portable units to complete thermal imaging systems. The company also offers experience in many different thermal applications, specialized software, and custom camera configurations.

### Morgan Schaffer

5110 Avenue de Courtrai

Montreal, Quebec H3W 1A7

William Morse: 514-739-1967

[wmorse@morganschaffer.com](mailto:wmorse@morganschaffer.com)

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

Morgan Schaffer offers a full range of analytical services for the quality assessment of dielectric fluids and early detection of incipient faults in oil-filled electrical equipment. Located in Montreal, Canada, the specialized laboratory was established in 1965 as the first commercial laboratory to offer gas-in-oil analysis in North America.

### Neoptix Fiber Optic Sensors, Inc.

1415 Charest Ouest Blvd., Suite 220

Quebec, Canada G1N 4N7

418-687-2500

Fax: 418-687-2524

Michel Plourde

[mpourde@neoptix.com](mailto:mpourde@neoptix.com)

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

Neoptix developed a fiber optic monitoring system for true and direct winding temperature measurement. The Neoptix t/Guard is a multi-channel fiber optic temperature monitoring system for power transformer hot spot measurements. The t/Guard system has been developed with long-term performance and stability in mind. This fiber optic temperature monitoring system for power transformers offers accuracy, toughness and long-term resistance to failure.

Coupled with the t/Guard system, the Neoptix T1 fiber-optic temperature probe provides accurate and direct temperature monitoring of transformer windings. This solution provides a realistic, real-time view of winding conditions that is quicker and more accurate than top oil measurements, and greatly complements indirect measurements based on thermal models.

### Booth 35

### NETA

P.O. Box 687

Morrison, CO 80465

303-697-8441

888-300-NETA (6382)

Fax 303-697-8431

[neta@netaworld.org](mailto:neta@netaworld.org)

The InterNational Electrical Testing Association (NETA) is an accredited standards developer for the American National Standards Institute (ANSI) and defines the standards by which electrical equipment is deemed safe and reliable.

NETA Certified Technicians conduct the tests that ensure this equipment meets the association's stringent specifications. NETA is the leading source of specifications, procedures, testing, and requirements, not only for commissioning new equipment but for testing the reliability and performance of existing equipment.

### Booth 3

### Normandy Machine Company

250 Industrial Drive

Troy, Missouri 63379

636-528-8913

Gerald Woodruff

[jerry@normandymachine.com](mailto:jerry@normandymachine.com)

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

Normandy Machine Company is the largest in-depth manufacturer of electrical contacts for all makes and models of load tapchangers, oil circuit breakers and disconnected switches. Normandy Machine Company has load tapchangers in stock, along with porcelain transformer bushings from 1.2 Kv - 3.45 Kv, 4000A and relaxed consulting and training available for specific substation requirements.

### Booth 45

### Nynas USA Inc

Nynas Transformer Oils USA

Sales Manager, Electrical Industry

1800 West Loop South, Suite 1150

Houston, TX 77027

Jeremy Kriska: 713-586-3832 X106

Cell: 713- 819-2067

[jekr@nynas.com](mailto:jekr@nynas.com)

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

Nynas USA, the world's largest manufacturer of TYPE I (uninhibited) and Type II (inhibited) Transformer Oils, is continues to expand its offerings to Utilities and Manufacturers throughout the US. We currently store our oils in Long Beach, CA, Houston, TX, and Carteret, NJ in order to provide cost-effective and timely access of tank truck oil volumes to Utilities and Manufacturers nationwide. Our oils are refined for higher oxidative stability, ensuring longer transformer life. All Nynas transformer oils EXCEED the ASTM & IEC specifications. Our goal is to provide petroleum specialty products and related services of high quality giving our customers a competitive advantage, making the company the world's most reliable supplier of high-quality and long lasting oils throughout the world.

### Booth 44

### Booth 24

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## 2006 International Conference of Doble Clients Exhibiting Companies

### Opsens Fiber Optic Sensors

2014 Jean Talon Nord, Bureau 125  
Sainte Foy, Quebec, Canada G1N 4N6  
418-682-9996  
Fax: 418-682-9939

[mengche.looi@opsens.com](mailto:mengche.looi@opsens.com)  
[www.opsens.com](http://www.opsens.com)

Opsens is a leading developer and manufacturer of fiber optic sensors, totally dedicated to meeting customers' stringent requirements for accuracy, precision, and high repeatability in miniature fiber optic sensors. Providing one of the most innovative yet flexible fiber optic sensing solutions for industry, Opsens also provides the most technically advanced products for the monitor and control of transformers' winding temperatures.

### Phenix Technologies, Inc.

75 Speicher Drive  
Accident, MD 21520  
301-746-8118  
Fax: 301-895-5570

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

PHENIX Technologies is a leading manufacturer and global supplier of high voltage, high current and high power test systems and components. The company designs, manufactures and delivers quality products for cable manufacturers, electrical utilities, the motor repair industry, OEMs, service contractors, transformer manufacturers and transformer repair industries. Equipment is built to satisfy the individual testing requirements of customers, and backed by engineering resources, manufacturing capability and commitment to design flexibility in meeting testing requirements.

### Power Asset Recovery

3801 Whipple Avenue NW  
Canton, Ohio 44718  
330-493-1890  
Fax: 330-493-1893

[www.power-asset.com](http://www.power-asset.com)

Power Asset Recovery has a simple mission: to buy and sell transformers and related equipment to and from utilities and industrial companies, with the goal of improving profitability for all concerned. The company stands ready to help when changes on your system, obsolescence, or redundancy make buying or selling an option.

### Qualitrol Company LLC

1385 Fairport Road  
Fairport, NY 14450  
Dave Billings: 585-5861515  
[dave.billings@qualitrolcorp.com](mailto:dave.billings@qualitrolcorp.com)  
[www.qualitrolcorp.com](http://www.qualitrolcorp.com)

A leading supplier of substation instrumentation and automation equipment, Qualitrol provides intelligent electronic devices, remote terminal units, substation information servers, and software packages for making intelligent loading decisions and extending transformer life.

### Booth 29

### Reinhausen

2549 North 9th Ave  
Humboldt, Tennessee USA 38343  
Tel: 731-784-7681

John Gamane, Jr.  
731-784-7681

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

On-load tap-changers and the related electronics components are not products commonly purchased 'off-the-rack'. More often than not, our customer's requirements are exceedingly complex. That is why tailor-made problem solutions are developed by our specialists in the majority of all cases. Our commitment and our motto: solutions from MR are distinguished by perfect functionality, low maintenance and long working life. We are not satisfied unless our customers are.

### S&C Electric Company

6601 North Ridge Blvd.  
Chicago, IL 60626  
773-338-1000

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

S&C is a global provider of electric power switching and protection equipment for the electric power industry, and also offers a wide range of engineering, laboratory, and testing services for power users.

### S.D. Myers

180 South Avenue  
Tallmadge, OH 44278  
Becky Compton  
330-630-7000

[Becky.compton@sdmyers.com](mailto:Becky.compton@sdmyers.com)

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

S.D. Myers Transformer Consultants provide analytical, training, and international field services in order to extend the reliable life of customers' substation equipment and to reduce their PCB liability.

### Schweitzer Engineering Laboratories (SEL)

2350 NE Hopkins Court  
Pullman, WA 99163  
(509) 332-1890  
(509) 332-7990 Fax

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

Founded in 1982, Schweitzer Engineering Laboratories, Inc. (SEL) invents, designs, manufactures, and distributes complete solutions for the protection, monitoring, control, automation, and metering of electric power systems worldwide. SEL employs 1,000 people in more than 46 locations around the world and sells products in 104 countries.

### Booth 57

### Serveron

3305 NW Alcock Drive  
Hillsboro, OR 97124  
503-924-3200

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

Serveron asset condition assessment and management tools are critical to utilities in improving grid reliability while optimizing their asset base. Serveron develops, delivers, and supports online transformer and battery monitor products as well as diagnostic services that transform the way utility assets are managed. Headquartered in Oregon, Serveron serves major electric utilities in the United States and around the world.

### Booth 37

### Booth 56

### Booth 54

### Booth 62



*Hamby Young has been packaging high voltage materials (15kv - 765kv) for the Electric Utility market for over 30 years. With expertise in Substation, Transmission, Overhead and Underground Distribution, Hamby Young is able to provide support for the numerous applications necessary to complete your project. With an efficient and cost effective approach, Hamby Young provides support to meet your proposal deadlines and coordinated project management to meet your delivery dates.*

### Contact Information:

**Mike Brumbaugh**

**P: 928-445-5434**

**F: 928-445-5435**

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



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### Siemens Service Solutions

4700 Falls of Neuse Road  
Raleigh, NC 27609  
919-365-2329  
Jeff Phelan

[jeff.phelan@siemens.com](mailto:jeff.phelan@siemens.com)  
[www.usa.siemens.com/energy](http://www.usa.siemens.com/energy)

Siemens offers advanced power products and innovation equipment repair and life extension service solutions. Its products and systems are designed to increase power system capacity and improve the reliability, stability, and flexibility of power delivery and network control systems. Its service operations are located in North Carolina, Mississippi, and Canada.

### Solidification Products International, Inc

800-758-3634

[pvanfossen@oilbarriers.com](mailto:pvanfossen@oilbarriers.com)  
[www.oilbarriers.com](http://www.oilbarriers.com)

Solidification Products International (SPI) is a thirteen-year-old environmental products company that supplies oil and water absorbents for the control and disposal of various waste materials. SPI products have been used by major utility and industrial companies for many years, as well as by major hazardous waste remediation contractors. The company is now primarily focusing on emergency response and facility maintenance products for the utility industry. Since the 1990's, SPI environmental control products have set a new standard for the industry by providing 100% effective means of spill control in a cost-effective manner.

### Booth 1

### Solomon Corporation

Bob Diehl  
Solomon Corporation  
800-234-2867x155

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

Solomon Corporation is a sales and service company for distribution and power class transformers, voltage regulators and oil circuit reclosers. We offer solutions throughout the life cycle of oil filled electrical equipment, from manufacturing to maintenance and service to disposal.

Solomon offers nationwide service to the electrical industry, providing in-house service and repair of transformers, voltage regulators, and oil circuit reclosers as well as on-site service of transformers and oil circuit reclosers. Our experienced engineering staff can design transformers to fit your exact specifications or provide detailed evaluations and recommendations on your existing unit for repair. In addition, we can provide on-site disposal services for large transformers and purchase of your surplus or obsolete equipment.

### Southern States, LLC

30 Georgia Avenue  
Hampton, Georgia 30228  
Tom Speas: 770-946-4562

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

Southern States, LLC is a world leader in the design and manufacture of high-voltage switching devices. The company offers a full line of circuit switches, load and line switches, capacitor switches, and disconnect switches.

### Booth 53

### Team Industrial Services

200 Herman Drive

Alvin, TX 77511

W.R. McAfee: 800-662-8326

[rmcafee@teamindustrialservices.com](mailto:rmcafee@teamindustrialservices.com)

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

Team Industrial Services performs onsite, inplace, nondestructive repairs to transformers leaking oil and circuit breakers leaking SF<sub>6</sub> gas and/or oil. Other services include onstream leak sealing, hot taps, line stops, freeze stops, field machining, bolt tensioning and torquing, onsite and inline valve repairs, fugitive emission control (LDAR), plus non-destructive testing.

### Booth 34

### The Von Corporation

PO Box 110096

1038 Lomb Avenue SW

Birmingham, AL 35211

205-788-2437

Fax: 205-780-4015

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

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

### Booth 50

### Unifin International LP

R. L. (Dick) Amos

Regional Sales Manager

Cardinal Pumps and Exchangers

888-451-0310

Cell: 614-746-5721

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

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

Unifin International is a world renowned supplier of cooling equipment for major electrical equipment used in power plants, large substations, and industrial sites. Unifin products include ForZair™ transformer oil coolers, TEWAC motor/generator coolers, hydro-generator coolers and large generator hydrogen coolers. Unifin can now provide the two most preferred cooling surface options; i.e., extruded tube or platefin technology. Both designs provide years of nearly maintenance-free life.

Unifin is also the parent company of Cardinal Pumps and Exchangers. Cardinal manufactures the vast majority of transformer oil pumps used in North America, including all new GE-Harley bearing design pumps.

### Booth 63-64

### Utility Automation & Engineering/T&D

PennWell

1421 S Sheridan Road

Tulsa, OK 74112

<http://uaelp.pennnet.com>

Utility Automation & Engineering/T&D is the power industry's leading publication on electric power transmission and distribution automation, engineering, and information technology. Electric utility engineers, managers, operational personnel, and other qualified subscribers rely on it to present the information they need to make informed technical and business decisions.

### Booth 61

### Booth 41-42



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### Velcon

Velcon Filters Incorporated  
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800-531-0180  
Fax: 719-531-5690  
[vfsales@velcon.com](mailto:vfsales@velcon.com)  
[www.velcon.com](http://www.velcon.com)

Velcon Filters, Inc. serves a variety of markets throughout the world with a broad range of fluid clarification products. Fixed, portable, and mobile filtration systems combine such features as versatility, simplicity, and quality to purify insulating oil using advanced cartridge technology. With this technology, Velcon's load tap changer filter systems, oil filter trailers, and online transformer drying systems achieve peak performance.

### VTUC Corporation

3770 Pole Line Road  
Pocatello, ID 83201  
Janet Moore  
208-238-0720  
[www.vtcucorp.com](http://www.vtcucorp.com)

VTUC Corporation, formerly US Transformer-West of Pocatello, Idaho, has built a solid reputation in transformer redesign, providing reliable remanufactured transformer to utilities and industrial customers for more than 30 years. At VTUC our technicians have the expertise to bring advanced design technologies to damaged or obsolete transformers and are experienced with virtually all transformer manufacturers.

At VTUC, we will work with you to identify your transformer needs and customize the solution. Once we know your exact requirements, our engineers will quickly recommend the right solution based on your specific needs. The design and engineering staff is on-site at the Pocatello, Idaho facility to insure quality from start to final test of each order. All design and testing is done in accordance with ANSI standards.

Booth 17

Booth 26

### Waukesha Electric Systems, Inc.

400 S. Prairie Ave.  
Waukesha, WI 53186  
800-835-2732  
Fax: 262-521-0196  
[wesinfo@waukeshaelectric.spx.com](mailto:wesinfo@waukeshaelectric.spx.com)  
[www.waukeshaelectric.com](http://www.waukeshaelectric.com)

Waukesha Electric System, the largest US manufacturer of medium-power transformers, along with its subsidiary, High Voltage Supply of Dallas, TX, offer an extensive range of products and capabilities, including Transformers and Accessories, Load Tap Changers, Retrofit Oil Filtration Systems, Modular Substations, Substation Transformer Condition Assessment Services, Reverse-Engineered LTC and Circuit Breaker Components, and complete Substation Repair and Maintenance Services, nationwide. The company also provides system-engineered EPC solutions through its subsidiary, PSD, Inc., including engineered switchyards, substations, overhead and underground transmission lines, and Wind Energy projects.

Booth 38-39

### Weidmann-ACTI

One Gordon Mills Way  
St. Johnsbury, VT 05819  
802-751-3530  
Fax: 802-748-8630  
[lbean@weidmann-systems.com](mailto:lbean@weidmann-systems.com)  
[www.weidmann-acti.com](http://www.weidmann-acti.com)

Weidmann-ACTI adds value to the electric generation and T & D industries by providing diagnostic testing, expert services, and quality products that improve the life, loading, and reliability of substation transformers. Industry asset managers turn to Weidmann-ACTI engineers and chemists to bolster their in-house resources and testing capabilities.

Booth 30-31

### Woodgroup Generator Services, Inc.

1113 Camina Entrada  
Farmington, NM 87401  
David Y. Robinson  
505-327-6363  
[www.woodgroup.com](http://www.woodgroup.com)

Wood Group Generator & Motor Services (Farmington, New Mexico), a division of Scotland's Wood Group (LSE:WG) (<http://www.woodgroup.com>) has embarked on a series of investments in people and facilities to enhance its aftermarket generator and motor repair services, targeting the needs of the power generation and process plant markets in the U.S. and throughout the Americas.

Booth 55

### Zensol Automation Inc.

7075 Place Robert-Joncas #139  
St-Laurent, QC, Canada H4M 2Z2  
514-333-3488  
Fax: 514-333-3499  
e-mail: [zensol@zensol.com](mailto:zensol@zensol.com)  
[www.zensol.com](http://www.zensol.com)

Zensol Automation circuit breaker test equipment is a result of our company's devotion to research and development of solutions for the electric power industry. Zensol has developed several circuit breaker analyzers and breaker testing instruments, particularly for circuit breakers from the lowest to the highest voltage (800 kV), including: the CBA-32P, a software-driven circuit breaker analyzer; the SIM-CB6, a circuit breaker simulator integrating an actuator reproducing the actual displacement of any type of breaker; the GEN, a software-driven recloser analyzer. Zensol offers R&D services, in addition to breaker testing and training on its circuit breaker test equipment products.

Booth 28

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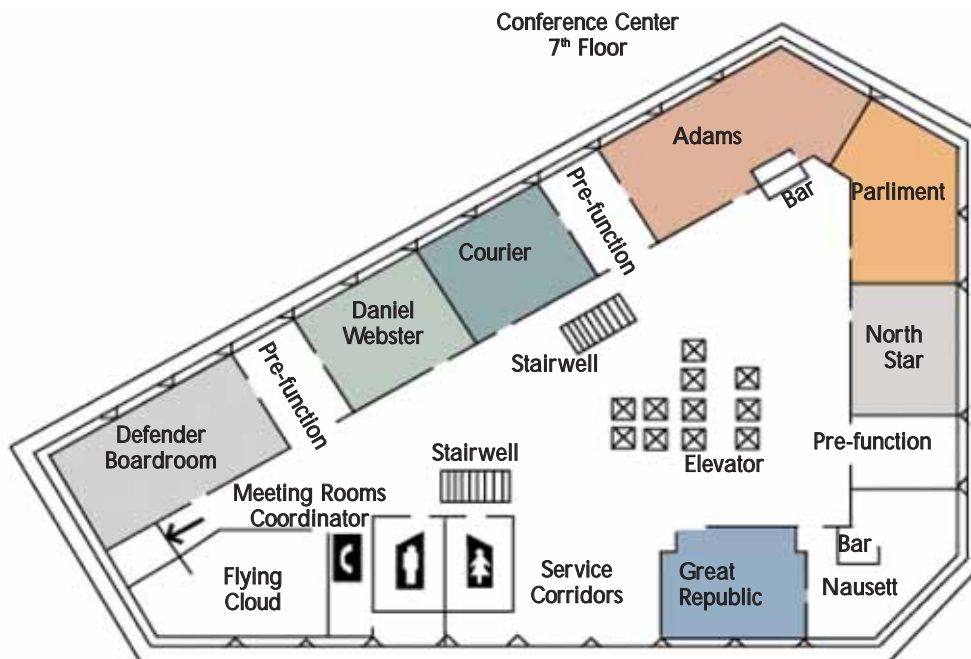
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## Hospitality Suites at the 2006 International Conference of Doble Clients

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 have wonderful food and beverage offerings!

Hospitality Suites are located on the 7th, 21st, 31st and 36th floors. See below for the schedule of companies hosting Suites. Suites open at 7 pm with one noteworthy exception: **SD Myers will be hosting a Breakfast Suite in Turners Restaurant, 1st floor, on Tuesday April 11th from 6:30 - 9:30 am.** SD Myers invites all interested Conference delegates to come to their breakfast!



Hospitality Suite Schedule 2006-03-21	Sunday	Monday	Tuesday	Wednesday
Daniel Webster/Courier		ABB	ABB	
Flying Cloud		Kelman	Weidmann	Weidmann
Great Republic	E Manufacturing	E Manufacturing	E Manufacturing	Petro Canada
Nausett	Uptime Solutions	Uptime Solutions	Uptime Solutions	Uptime Solutions
North Star		Morgan Schaeffer	Morgan Schaeffer	
Adams		SouthWest Electric	SouthWest Electric	Furmanite
Parliament		PCORE	PCORE	PCORE
Presidential	GE	GE	GE	Reinhausen
Imperial	Nynas	Nynas	Nynas	
Ambassadors		VTCU	TJH2B	
Governor		Waukesha	Waukesha	
Senator		Velcon	Velcon	
Turners Restaurant			SD Meyers (breakfast)	
Location TBD			Weschler	Weschler



# 2006 Hospitality Suite Holder Company Descriptions

## ABB Inc.

4350 Semple Avenue  
St. Louis, MO 63120  
314-679-4510  
Dan.marlowe@us.abb.com  
[www.abb.us](http://www.abb.us)

ABB TRES Transformer Remanufacturing and Engineering Services, a leader in full line power transformer services, is part of ABB, the worldwide leading manufacturer of power transformers. TRES resources and capabilities include the North American Field Service Organization, Remanufacturing/Factory Repair, and Engineering Solutions consulting services.

Our skilled designers, engineers, technicians, and testers service hundreds of power transformers yearly from 10 MVA to 1000+ MVA and voltages from 34.5kV to 765kV including generator step up transformers, auto transformers, rectifier transformers, arc furnace transformers, shunt reactors, and phase shifting transformers. TRES personnel have an average of 30 years experience in the power transformer industry.

## EManufacturing Company

7275 Industrial Park Blvd.  
Mentor, Ohio 44081  
440-951-0900  
Fax: 440-951-0965

EManufacturing is an innovative manufacturer of circuit breaker parts, tap changer parts, disconnect switches, and other power transmission components.

## Furmanite

101 Old Underwood Road  
Building E  
La Porte, TX 77571  
281-842-5100  
Fax: 281-842-5111  
[www.furmanite.com](http://www.furmanite.com)

Furmanite is the worldwide innovator and leader in comprehensive on-site and on-line plant and pipeline maintenance. The company's mission is to maximize asset uptime for customers in industries such as oil and gas and power generation.

## GE Energy

4200 Wildwood Parkway  
Atlanta, GA 30339  
Eileen Conway  
Tel: 678-844-6581  
eileen.conway@ge.com  
[www.ge.com](http://www.ge.com)

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## Kelman Ltd.

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Chicago, IL 60613  
773-944-0693  
Fax: 773-944-0690  
[mail@kelman-northamerica.com](mailto:mail@kelman-northamerica.com)  
[www.kelman-northamerica.com](http://www.kelman-northamerica.com)

Kelman provides innovative solutions for the power industry, with products designed to meet utility requirements that have been adopted around the world. The USA office is designed to facilitate Kelman's growing portfolio of Asset Management products from the established PROFILE P2 Circuit Breaker Analyzer to the revolutionary TRANSPORT X, the first in Kelman's new generation of dissolved gas analyzers (DGA).

The successful development of TRANSFIX, Kelman's on-line dissolved gas analyzer (DGA), which again incorporates Kelman's groundbreaking technologies, is the most recent addition to the Asset Management product family.

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

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Nynas Transformer Oils USA  
Sales Manager, Electrical Industry  
1800 West Loop South, Suite 1150  
Houston, TX 77027  
Jeremy Kriska: 713-586-3832 X106  
Cell: 713- 819-2067  
[jekr@nynas.com](mailto:jekr@nynas.com)  
[www.nynas.com](http://www.nynas.com)

Nynas USA, the world's largest manufacturer of TYPE I (uninhibited) and Type II (inhibited) Transformer Oils, is continues to expand its offerings to Utilities and Manufacturers throughout the US. We currently store our oils in Long Beach, CA, Houston, TX, and Carteret, NJ in order to provide cost-effective and timely access of tank truck oil volumes to Utilities and Manufacturers nationwide. Our oils are refined for higher oxidative stability, ensuring longer transformer life. All Nynas transformer oils EXCEED the ASTM & IEC specifications. Our goal is to provide petroleum specialty products and related services of high quality giving our customers a competitive advantage, making the company the world's most reliable supplier of high-quality and long lasting oils throughout the world.

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## 2006 Hospitality Suite Holder Company Descriptions

### Reinhausen

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Humboldt, Tennessee USA 38343  
Tel: 731-784-7681  
John Gamane, Jr.  
731-784-7681

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

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180 South Avenue  
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Becky Compton  
330-630-7000

[Becky.compton@sdm Myers.com](mailto:Becky.compton@sdm Myers.com)

[www.sdm Myers.com](http://www.sdm Myers.com)

S.D. Myers Transformer Consultants provide analytical, training, and international field services in order to extend the reliable life of customers' substation equipment and to reduce their PCB liability.

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### Southwest Electric Company

6503 SE 74th St.  
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[www.swelectric.com](http://www.swelectric.com)

Since its founding in 1945, Southwest Electric has become one of the foremost re-manufacturing, manufacturing, and service companies for the electrical equipment industry in the United States, focusing on medium class power transformers, electric motors, rotating equipment, and metal clad switchgear. The company manufactures custom metal clad switchgear for the utility and industrial markets as well as specialty transformers for the oil field pump industry.

### TJ/H2b Analytical Services, Inc.

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Sacramento, CA 95827  
916-361-7177  
Fax: 916-361-7178

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

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

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

Velcon Filters, Inc. serves a variety of markets throughout the world with a broad range of fluid clarification products. Fixed, portable, and mobile filtration systems combine such features as versatility, simplicity, and quality to purify insulating oil using advanced cartridge technology. With this technology, Velcon's load tap changer filter systems, oil filter trailers, and online transformer drying systems achieve peak performance.

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Janet Moore  
208-238-0720

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

VTCU Corporation, formerly US Transformer-West of Pocatello, Idaho, has built a solid reputation in transformer redesign, providing reliable remanufactured transformer to utilities and industrial customers for more than 30 years. At VTCU our technicians have the expertise to bring advanced design technologies to damaged or obsolete transformers and are experience with virtually all transformer manufacturers.

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Waukesha, WI 53186  
800-835-2732  
Fax: 262-521-0196

[wesinfo@waukeshaelectric.spx.com](mailto:wesinfo@waukeshaelectric.spx.com)

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

Waukesha Electric System, the largest US manufacturer of medium-power transformers, along with its subsidiary, High Voltage Supply of Dallas, TX, offer an extensive range of products and capabilities, including Transformers and Accessories, Load Tap Changers, Retrofit Oil Filtration Systems, Modular Substations, Substation Transformer Condition Assessment Services, Reverse-Engineered LTC and Circuit Breaker Components, and complete Substation Repair and Maintenance Services, nationwide. The company also provides system-engineered EPC solutions through its subsidiary, PSD, Inc., including engineered switchyards, substations, overhead and underground transmission lines, and Wind Energy projects.

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Weidmann-ACTI adds value to the electric generation and T & D industries by providing diagnostic testing, expert services, and quality products that improve the life, loading, and reliability of substation transformers. Industry asset managers turn to Weidmann-ACTI engineers and chemists to bolster their in-house resources and testing capabilities.

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

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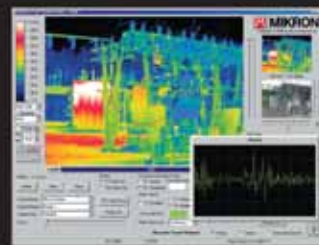
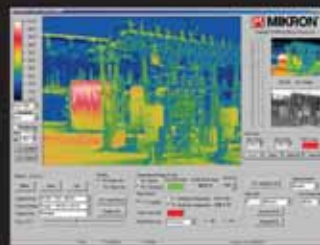


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# Advertisers Index

RSC #	Company	Web Site	Page #
132	Cannon Technologies	<a href="http://www.cannontech.com">www.cannontech.com</a>	7-27
133	Comverge, Inc.	<a href="http://www.comverge.com">www.comverge.com</a>	1
134	Doble Engineering Co.	<a href="http://www.doble.com">www.doble.com</a>	Inside Back Cover
135	Electro Composites Inc	<a href="http://www.eci-co.com">www.eci-co.com</a>	29
136	Fiso Technologies	<a href="http://www.fiso.com">www.fiso.com</a>	13
137	Flir Systems	<a href="http://www.flirthermography.com">www.flirthermography.com</a>	16-17
138	Hamby Young	<a href="http://www.hambyyoung.com">www.hambyyoung.com</a>	25
139	Indeck Power Equipment Company	<a href="http://www.indeck.com">www.indeck.com</a>	24
140	Interfax Systems Inc. - ProgUSA LLC	<a href="http://www.progUSA.net">www.progUSA.net</a>	17
141	Luxtron Corporation	<a href="http://www.luxtron.com">www.luxtron.com</a>	8
142	Manitoba HVDC Research Centre Inc.	<a href="http://www.pscad.com">www.pscad.com</a>	21
143	Mikron Infrared Inc	<a href="http://www.midroninfrared.com">www.midroninfrared.com</a>	31
144	Morgan Schaffer Systems, Inc.	<a href="http://www.morganschaffer.com">www.morganschaffer.com</a>	3
145	Neoptix Fiber Optic Sensors	<a href="http://www.neoptix.com">www.neoptix.com</a>	11
146	Nynas Canada Inc.	<a href="http://www.nynas.com">www.nynas.com</a>	Inside Front Cover
147	Petro-Canada Lubricants	<a href="http://www.petro-canada.ca">www.petro-canada.ca</a>	Outside Back Cover
148	The Von Corporation	<a href="http://www.voncorp.com">www.voncorp.com</a>	23
149	Weidmann-Systems International	<a href="http://www.weidmann-Acti.com">www.weidmann-Acti.com</a>	9





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