

WEIDMANN

ANNUAL TECHNICAL PRE-CONFERENCE AGENDA

Insulation Liquids / Transformer Maintenance / DGA Training

October 29, 2018

The Hilton Minneapolis/St. Paul Airport – Mall of America, MN

Monday, October 29, 2018 – PRE CONFERENCE / 1 DAY TRAINING SESSION

Presentations by Weidmann Electrical Technology Inc.

7:00 - 8:00am	Registration and Continental Breakfast	
8:00 - 8:15am	Welcome & Introductions	<i>Nick Perjanik</i>
8:15 - 9:15am	Introduction to Transformer Insulation Systems	<i>Tom Prevost</i>
9:15 - 10:00am	Insulating Liquids: Representative Field Sampling	<i>Nick Perjanik</i>
10:00 - 10:20am	BREAK	
10:20 - 11:20am	Insulating Liquids: Chemical, Electrical, and Physical Testing	<i>Nick Perjanik</i>
11:20 - 12:10pm	Transformer Maintenance Practices	<i>Mike Lau</i>
12:10 - 1:10pm	LUNCH	
1:10 - 1:55pm	Approaches to Assessing Electrical Insulation Through Oil Testing	<i>Nick Perjanik</i>
1:55 - 2:50pm	Safety Practices When Working Around Transformers	<i>Mike Lau</i>
2:50 - 3:10pm	BREAK	
3:10 - 5:00pm	Dissolved Gas Analysis (Theory, Application and Update to PC57.104™ Draft Guide for the Interpretation of Gases Generated in Mineral Oil-Immersed Transformers)	<i>Nick Perjanik</i>

Please return completed Applications for IEEE CEUs to Event Coordinator.
Return Applications for NETA CTDs to your NETA company representative or directly to NETA.

Continuing Education

As a full participant in the Annual WEIDMANN Technical Conference you will be able to receive:

**.7 IEEE Continuing Education Credits (CEUs); and/or
7 NETA Continuing Technical Development Credits (CTDs)**

WEIDMANN

2018 ANNUAL TECHNICAL CONFERENCE AGENDA

October 30 – November 1, 2018

The Hilton Minneapolis/St. Paul Airport – Mall of America, MN

Tuesday, October 30, 2018 – MAIN CONFERENCE – Day 1

7:00 - 8:00 am	Registration and Continental Breakfast	MN Valley Ballroom I & II
8:00 - 8:20 am	Conference Welcome	<i>Nick Perjanik Weidmann Electrical Technology Inc</i>
8:20 - 8:55 am	Weidmann Developments	<i>Jurg Brunner Weidmann Electrical Technology Inc .</i>
8:55 - 9:50 am	The Challenges of Bringing New Life to Our Aging Electrical Grid	<i>Neil Kranich II Jordan Transformer</i>
9:50 - 10:10 am	BREAK	
10:10 - 11:05 am	High Temperature Insulation Systems: an Option for Resilient Transformers	<i>Richard Marek Dupont</i>
11:05 - 12:00 pm	Seven Myths of Transformer Reliability	<i>Francis Fisher Weidmann Electrical Technology Inc.</i>
12:00 - 2:00 pm	EXPO TRADESHOW Includes Complimentary Lunch VENDOR EXHIBITS	MN Valley Ballroom III - IV
2:00 - 3:00 pm	SPOTLIGHT PRESENTATION: IEEE Update and Future	<i>Sue McNelly Xcel Energy</i>
3:00 - 4:00 pm	SPOTLIGHT PRESENTATION: Study of Trends in the Industry	<i>Mladen Banovic Transformer Magazine</i>
4:00 - 6:00 pm	EXPO TRADESHOW and Welcome Reception	MN Valley Ballroom III - IV

Wednesday, October 31, 2018 – MAIN CONFERENCE – Day 2

7:30 - 8:00 am	Continental Breakfast	MN Valley Ballroom I & II
8:00 - 8:55 am	Digitalization of Power Transformer Health and Performance	<i>Dave Woodcock Weidmann Electrical Technology Inc</i>
8:55 - 9:50 am	Title TBD	
9:50 - 10:10 am	BREAK	
10:10 - 11:05 am	Effects of Geomagnetic Storms on Electrical Power Systems	<i>Rogério Verdolin Verdolin Solutions Inc.</i>
11:05 - 12:00pm	Fast, Safe and Cost Effective Internal Inspections of Oil Filled Transformers - Looking Inside While Staying Outside	<i>Craig L Stiegemeier ABB Inc.</i>

WEIDMANN

2018 ANNUAL TECHNICAL CONFERENCE AGENDA

October 30 – November 1, 2018

The Hilton Minneapolis/St. Paul Airport – Mall of America, MN

Wednesday, October 31, 2018 – MAIN CONFERENCE – Day 2 (cont)

12:00 - 1:00pm	LUNCH	MN Valley Ballroom III
1:00 - 1:55 pm	Root Cause Investigation of a 240kV Transformer with Sulphides	<i>Colin Clark & Mike Lau AltaLink & Weidmann Electrical Technologies Inc</i>
1:55 - 2:50 pm	Application of Dielectric Frequency Response During the Dry-Out Process of Power and Distribution Transformers	<i>Diego Robalino Megger</i>
2:50 - 3:10 pm	BREAK	
3:10 - 4:05 pm	Modeling Transformer Insulative Paper Degradation	<i>Yancy Gill Salt River Project</i>
4:05 - 5:00pm	Understanding Moisture in Transformers: Measurement, Effects and Mitigation	<i>Tom Prevost Weidmann Electrical Technology Inc</i>
5:30 - 7:30pm	Jordan Transformer Hosted Social Event	

Thursday, November 1, 2018 – MAIN CONFERENCE – Day 3

7:30 - 8:00 am	Continental Breakfast	MN Valley Ballroom III
8:00 - 9:00am	Electrical Testing of Natural and Synthetic Esters	<i>Jinesh Malde Midel</i>
9:00 - 10:00am	The Value of Performing Power Factor Sweep Measurements on Bushings	<i>Brandon Dupuis OMICRON electronics Corp</i>
10:00 - 10:20am	BREAK	
10:20 - 11:20am	Evaluation of Natural Ester Retrofilled Transformers After One Year of Continuous Overload	<i>Alan Sbravati Cargill BioIndustrial</i>
11:20 - 11:40pm	Safety Presentation for Jordan Transformer Tour	<i>Jason Dropnick Jordan Transformer</i>
11:40 - 12:30pm	LUNCH	MN Valley Ballroom III
12:30 - 1:15pm	Transportation to Jordan Transformer	
1:15 - 3:30pm	Technical Tour of Jordan Transformer Facility	
3:30 - 4:15pm	Transportation Back to Hilton Hotel	

Please return completed Applications for IEEE CEUs to Event Coordinator.
Return Applications for NETA CTDs to your NETA company representative or directly to NETA.
Continuing Education

As a full participant in the Annual WEIDMANN Technical Conference you will be able to receive:
**1.5 IEEE Continuing Education Credits (CEUs); and/or
15 NETA Continuing Technical Development Credits (CTDs)**

WEIDMANN

17th Annual Technical Conference

October 29 – November 1, 2018

The Hilton Minneapolis / St. Paul Airport – Mall of America

Weidmann has assembled a group of highly experienced and knowledgeable speakers to share their expertise with you. This excellent technical program will feature interesting and current presentations showcasing innovative and applied technologies. With topics including the areas of advancing transformer maintenance practices, new equipment materials for transformer and auxiliary equipment, and the diagnostic testing of transformers, circuit breakers, and load tap changers, the conference is designed to assist maintenance operators, engineers, and management in maximizing the life of electrical equipment in the field.

This year's Conference includes a sponsored Tour at the Jordan Transformer facility.

PRELIMINARY AGENDA

Pre-Conference

Monday, October 29th - Insulation Fluids / Transformer Maintenance / DGA session (8:00 - 5:00pm)

Main Conference

Tuesday, October 30th - Technical Presentations (8:00 - 12:00pm)
- Vendor Expo and Lunch (12:00 - 2:00pm)
- Key Note Presentations (2:00 - 4:00pm)
- Vendor Expo and Welcome Reception (4:00 - 6:00pm)

Wednesday, October 31st - Technical Presentations (8:00 - 5:00pm)
- Social Event (5:30 - 7:30pm)

Thursday, November 1st - Technical Presentations (8:00 - 11:30am)
- Lunch at Hotel (11:30 - 12:15pm)
- Depart Hotel for Jordan Transformer Plant tour (12:20pm)
- Tour of Jordan Transformer (1:00 – 3:30pm)
- Depart Jordan Transformer (returning to hotel at approx. 4:30/5:00pm)
- Transportation for the tour will be provided by Weidmann

PRESENTATIONS INCLUDE:

Susan McNelly, Xcel Energy - *IEEE Update and Future*

Mladen Banovic, Transformers Magazine - *Trends in the Industry*

Tom Prevost, Weidmann Electrical Technology - *Understanding Moisture in Transformers: Measurement, Effects and Mitigation*

Richard Marek, Dupont - *High Temperature Nomex Applications*

David Woodcock, Weidmann Electrical Technology - *Digital Transformation Developments Aimed at Optimized Transformer Performance*

Yancy Gill, Salt River Project - *Transformer Aging Study*

Neil Kranich, Jordan Transformer - *The Challenges of Bringing New Life to Our Aging Electrical Grid*

Rogério Verdolin, Verdolin Solutions - *Effects of Geomagnetic Storms on Electrical Power Systems*

Craig Stiegemeier, ABB - *The TXplore System: Experience With Internal Robotic Inspections*

Brandon Dupuis, OMICRON electronics Corp - *The Value of Performing Power Factor Sweep Measurements on Bushings*

Diego Robalino, Megger - *Application of Dielectric Frequency Response During the Dry-Out Process of Power and Distribution Transformers*

Alan Sbravati, Cargill BioIndustrial - *Evaluation of Natural Ester Retrofilled Transformers After One Year of Continuous Overload*

Jinesh Malde, Midel - *Electrical Testing of Natural and Synthetic Esters*

AltaLink & Weidmann (co-authored) - *Root Cause Investigation of a 240kV Transformer with Sulphides*

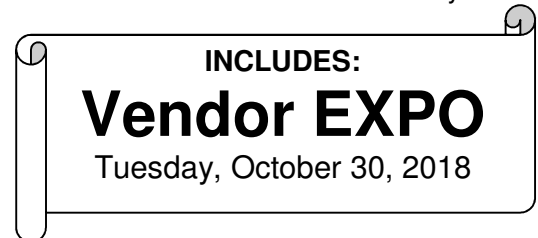
EVENT HIGHLIGHTS

FACILITY TOUR AT JORDAN TRANSFORMER

Jordan Transformer specializes in rewinding, repairing, remanufacturing, & supplying oil filled Substation & Mobile transformers. We also manufacture *entirely NEW* Mobile Substations. With our expanded high bay & cranes we now handle transformers up to 200 MVA & 230 kV with Impulse testing & Partial Discharge monitoring. We also offer complete transformer field services.

EXPO TRADE SHOW:

A 2-session EXPO Trade Show will be held at the Hilton Minneapolis (MN Ballrooms) on Tuesday afternoon. The latest equipment, products, technologies and services tailored to meet the needs of utility and other power industry participants will be showcased. It is a great opportunity to see and speak with vendors while enjoying a hosted lunch and cocktails. Vendor prizes will be provided during the event. If you are interested in participating in the Vendor EXPO or need more information, please contact Linda Brooks at 802.751.3514 or email her at linda.brooks@weidmann-group.com. Additional vendor and sponsorship opportunities are still available.



Vendors Include:

The Colt Group
Jordan Transformer
Baron USA
Delta Star

Megger
Haefely Hipotronics
Raytech

Pre-Conference INSULATION LIQUIDS / TRANSFORMER MAINTENANCE / DGA SESSION

Join us for the optional 1-Day Weidmann training course with presentations by Nick Perjanik, Manager of Knowledge Services on proper sampling and insulation liquid quality testing plus on dissolved gas analysis (DGA); Mike Lau, Chief Technology Engineer on transformer maintenance, life extension, moisture in insulation and transformer dryout. This pre-conference course is designed to cover the theory and application of diagnostic sampling, testing, and maintenance practices of electrical equipment. For those new or familiar with these topics, you will gain from the discussion on best practices and industry guide updates.

WELCOME RECEPTION and SOCIAL EVENT:

A welcome reception will be held Tuesday evening during our Vendor EXPO. This is an excellent opportunity to socialize with your colleagues while enjoying good food and beverages. Plus we are working on a Social Event to be held Wednesday evening in conjunction with Jordan Transformer. Look for more details of the event as they are updated.

CONTINUING EDUCATION CREDITS:

IEEE CEUs and NETA CTDs will be available to attendees at no additional cost for the Pre-Conference Training Session and the Main Conference.

CONFERENCE LOCATION:

The Pre-Conference Session and the Main Conference are being held at The Hilton Minneapolis/St. Paul Airport – Mall of America. A room block has been reserved from Oct 28, 2018 – Nov 2, 2018 at the rate of \$169.00 (single/double occupancy). Rooms at the special course rate are limited so please make your reservations **before October 7th**. Individuals must identify themselves as being with the group, Weidmann Annual Technical Conference, at the time the reservation is made in order to receive the special group rate. Reservations received late will be confirmed on a space available basis at the prevailing rate.

HILTON MINNEAPOLIS/ST. PAUL AIRPORT – MALL OF AMERICA

3800 American Boulevard East | Bloomington MN 55425 | USA |

Reservations can be made by calling Hotel directly at 952-854-2100 or Reservations at 1-800-HILTONS

Reservations can be done online by using the Group Block link:

<http://group.hilton.com/weidmanntechnicalconference2018>

REGISTRATION:

Registration fees include all conference materials and lunch and breaks for each registered day. The registration fee for the Main Conference includes attendance at the Tuesday night Welcome Reception, Vendor EXPO and Wednesday Social Event.

Main Conference Registration:

Weidmann Client:	\$490.00 (FREE for First-Time Attendees)
Non-Client:	\$790.00

Pre-Conference Registration:

All Attendees:	\$295.00
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BONUS: Register 3, send the 4th FREE!

Any organization wishing to send multiple attendees may register 1 FREE with each 3 paid registrations.

REGISTRATION INFORMATION: You can email Naomi Girouard your completed registration form at naomi.girouard@weidmann-group.com or you can fax it to 802.751.3555. If you have questions please call Naomi directly at 802.751.3567

ADDITIONAL QUESTIONS AND MORE INFORMATION**Course Topics:**

Contact Nick Perjanik

916.778.8435

Nick.perjanik@weidmann-group.com

General Event Questions:

Contact Naomi Girouard

802.751.3567

Naomi.girouard@weidmann-group.com

UPDATED INFORMATION IS AVAILABLE AT: www.weidmann-electrical.com

WEIDMANN

REGISTRATION FORM

2018 Weidmann Annual Technical Conference
October 29 – November 1 – Minneapolis, MN

REGISTRATION:

Cost includes all conference materials, lunch and breaks each conference day. Also including the EXPO and Welcome Reception on Tuesday night and Social Event on Wednesday.

The pre-Conference Fluids/DGA session (Mon.):

All Attendees: **\$295**

Annual Conference (Tues.-Thurs):

Weidmann Client: **\$490** (*FREE for 1st Conf.)

Non-Client: **\$790**

BONUS: Register 3, send the 4th FREE! Any organization wishing to send multiple attendees will receive 1 FREE registration with every 3 **paid** registrations.

CONFERENCE LOCATION:

HILTON MINNEAPOLIS/ST. PAUL AIRPORT, 3800

American Boulevard East, Bloomington MN 55425

Call Hotel at 952-854-2100 or at 1-800-HILTONS

Book Online Using Group Link:

<http://group.hilton.com/weidmanntechnicalconference2018>

CONTINUING EDUCATION CREDITS: IEEE CEUs and NETA CTDs will be available to attendees at no additional cost.

TO REGISTER (5 options to register)

- Call 802-751-3567
- FAX Registration Form to 802-751-3555
- or scan and e-mail Registration Form to naomi.girouard@weidmann-group.com
- or mail the form to
Weidmann, Attn: Naomi Girouard
One Gordon Mills Way
St. Johnsbury, VT 05819.

QUESTIONS or MORE INFORMATION:

For agenda or event questions, contact Naomi Girouard at 802.751.3567 or naomi.girouard@weidmann-group.com

For the Vendor EXPO or to sponsor an event, contact Linda Brooks at 802-751-3514 or linda.brooks@weidmann-group.com.

PLEASE REGISTER THE FOLLOWING

- For every 3 paid registrations from one company, you receive 1 FREE registration.
- \$490** Client Main Conference Registration - Client ID# _____
- Weidmann Clients attending a main session of an Annual Technical Conference for the first time are FREE**
- \$790** Non-Client Main Conference Registration
- \$295** Insulation Fluids Pre-Conference Session Registration

How did you hear about this event: (Direct email, Colleague, Speaker(s),etc.) _____

Name _____ Job Title _____

Company _____

Company Address _____ City _____

State/Prov. _____ Zip _____ Country _____

Telephone _____ Mobile: _____ Fax _____

Email _____

PAYMENT METHOD

_____ Pay with Credit Card _____ Check enclosed _____ Invoice Me

To pay with a credit card (Visa MC, or AMEX), please contact Naomi Girouard at 802-751-3567. By check, enclose a check and mail with this form to: Weidmann, Attn: Naomi Girouard, One Gordon Mills Way, St. Johnsbury, VT 05819.

Register Today! For Questions Call +802-751-3567 or email to: naomi.girouard@weidmann-group.com

WEIDMANN

EXHIBITOR REGISTRATION FORM

2018 Annual Technical Conference, Oct 29 - Nov 1, 2018
Vendor EXPO October 30, 2018 – Hilton Minneapolis, MN

Vendor EXPO will be held on Tuesday, October 30th, with the first EXPO from 12:00-2:00pm with Lunch served, followed with Cocktails and Hors d'oeuvres during the second EXPO session from 4:00-6:00pm. The two EXPO sessions are scheduled prior to and after the Key Note presentations from 2:00-4:00pm. No other conference activities are scheduled during the EXPO sessions.

The vendor registration fee includes:

- a standard 8' x 10' display area during EXPO hours
- one Primary Attendee - full access for the entire three-day technical conference
- one Secondary Attendee - access to EXPO Hall during exhibit hours and Welcome Reception
- 2 guest passes for EXPO Hall attendees only

Any additional representatives from your company who would like to attend the can purchase a registration to the Main Conference and/or the pre-Conference Insulation Liquids/Transformer Maintenance/ DGA Session (Monday). WEIDMANN would like to extend an offer for Vendors to invite non-Conference attending individuals (Guest Pass) to the EXPO sessions. Additional charges are provided below.

PLEASE REGISTER THE FOLLOWING

Exhibitor Primary Attendee: _____

Exhibitor Secondary Attendee: _____

Company Name: _____

Address: _____

City, State, Zip: _____

Phone: _____ Fax: _____ Mobile: _____

E-mail(s): _____

Booth EXPO Fee: **\$1995:** _____ Returning 2017 Vendor (20% off): **\$1596:** _____

Additional Exhibitors: **\$100:** _____ EXPO Guest Passes: **\$100:** _____
(Guest Pass names must be provided prior to event.)

Cancellations received after October 1, 2018 are non-refundable.

Please refrain from scheduling hospitality or other functions during conference proceedings and events.

BOOTH PREFERENCE

Please select your 3 preferences for booth location (see Floor Plan). Please note WEIDMANN will make final booth selections and notify you shortly before the Conference.

OPTION #1 _____

OPTION #2 _____

OPTION #3 _____

PAYMENT METHOD

_____ Pay with Credit Card

_____ Check enclosed

_____ Invoice Me

To manually charge a credit card (Visa, MC or AMEX), please contact Linda Brooks at 802-751-3514. By check, mail to Weidmann Electrical Technology, One Gordon Mills Way, St. Johnsbury, VT 05819.

Register Today!

Call Linda at 802-751-3514, Fax 802-751-3555 or email linda.brooks@weidmann-group.com

WEIDMANN

SPONSORSHIPS

2018 Weidmann Annual Technical Conference
October 30 - November 1 – Minneapolis, MN

	Level	Full Event	GigaWatt	MegaWatt	KiloWatt	Watt
	Price	\$7,500	\$5,000	\$2,500	\$1,500	\$500
	Key Item	Main Event	Recept/Social	Bkfst/Brks	Lunch	Adv
Number of Sponsorships Available		1	2	3	6	10

SPONSORSHIPS:

- Main Event Sponsor** - all three days - includes signage as noted
- Welcome Reception Sponsor** (Tues) or **Social Event Sponsor** (Wed)
- Breakfast + Morning Break Sponsor** – Tues, Wed, Thu - 1 per day available
- Lunch Sponsor** - Tues, Wed or Thu - 2 sponsorships per day available

INCLUDES:

- Full Registration for X attendees
- Exhibit booth** —consists of a 8' x 10' display area during EXPO hours and 1 additional EXPO representative
- Literature Table:** inside Main Conference Room during all conference sessions (unmanned)
- Literature Table:** inside Reception hall (unmanned)
- Literature Table:** Main Conference Room during Breakfast and Break (unmanned)
- Literature Table:** inside Lunch room during lunch (unmanned)
- Signage:** large company banner in main meeting room, reception, and EXPO
- Signage:** during the reception or EXPO event
- Signage:** during breakfast/break events
- Signage:** during the lunch event
- Participation in **Door Prize drawing** at EXPO
- Verbal acknowledgement and thank you at the event.
- Logo recognition included in on-site program materials
- Announcement on event advertisement material

X					
	X				
			X		
				X	
4	2	1			
X	X				
X					
	X				
		X			
				X	
X	X	X	X	X	
X	X	X	X	X	X
X	X	X	X	X	X

YES, we would like to sponsor an event:

Company Name: _____ Contact Name: _____

Phone: _____ Fax: _____ E-Mail: _____

_____ **Sponsorship Level** _____ **Check enclosed** _____ **Invoice Me**

Weidmann Electrical Technology, Inc., One Gordon Mills Way, St. Johnsbury, VT 05819
Call Linda Brooks at 802-751-3514 or email linda.brooks@weidmann-group.com with any questions