

IEEE/PES TRANSFORMERS COMMITTEE
www.transformerscommittee.org
Fall 2007 Meeting; October 14-18, 2007
Hosted by Susan McNelly and Xcel Energy
Hilton Minneapolis Hotel; Minneapolis, Minnesota USA

NOTES: See Page 5 for a key to abbreviations. A vertical line in the left margin indicates a noteworthy revision since last revision.

<u>DATE/TIME</u>	<u>ACTIVITY</u>	<u>SUB-COM</u>	<u>ACTIVITY CHAIR</u>	<u>ROOM CAP/ARR/AV</u>	<u>MEETING ROOM (Floor)</u>
Saturday, October 13 (no meeting registration this day)					
7:30 pm show time	Bonus Activity #1: Guthrie Theater Presentation, "The Home Place". We have reserved a limited number of tickets for our group. Register on-line by September 19. No transportation provided (suggest take city taxi). Note: There is a second opportunity for this play on Tuesday evening.				
Sunday, October 14					
8:00 am - 1:30 pm	Sunday Technical Tour: "Jordan Transformer Repair Facility". By invitation only. -- Buses depart the Hilton at 8:00 am and return by 1:30 pm. Includes lunch. Eat breakfast beforehand. -- Contact John Leemhuis at (952) 492-2720 or johnl@jordantransformer.com for more information.				
1:00 pm - <u>5:30 pm</u>	Meeting Registration – Window in Red Wing Room – overlooking Foyer				3rd Floor Foyer
2:00 pm - 5:30 pm	Administrative SC -- Closed meeting, by invitation only	Admin.	D. Fallon	25 US (w/snack buffet)	Duluth (3rd Floor)
2:00 pm - 5:30 pm	NEMA Transformers -- Closed meeting, by invitation only	++	C. Drexler	15 US (w/beverages)	Rochester (3rd)
6:00 pm - 8:00 pm	Welcome Reception -- All Members, Guests & Companions are welcome!			350 Recept.	Ballroom ABC (3rd Floor)
Monday, October 15 -- Monday Breaks Sponsored by AREVA T&D ***					
7:00 am - 5:00 pm	Meeting Registration – Window in Red Wing Room – overlooking Foyer				3rd Floor Foyer
7:00 am - 6:00 pm	Internet Cafe' (3rd Floor, room near registration area)			12 SQ	Directors Row #2
<u>7:00 am</u> - 7:50 am	<u>Newcomers Orientation</u> Breakfast Mtg (<u>arrive early!</u>) -- Newcomers & Guests are encouraged to attend!		T. Prevost	35 CL	Rochester (3rd)
7:00 am - 7:45 am	Distribution SC Coordination Meeting (closed mtg)		K. Hanus	14 CONF	Directors Row #3
7:00 am - 8:00 am	Breakfast - Attendees (no companions please)			250 RT (8/tbl)	Ballroom D (3rd)
8:00 am - 9:00 pm	Breakfast - Companions (no meeting attendees please)			60 RT (8/tbl)	Carvers (Lobby)
9:15 am - 4:00 pm	<u>Companion Tour:</u> "Historic St. Paul Tour." Includes lunch. -- Advance registration required. The bus departs the Hilton Hotel at 9:15 am and returns by 4:00 pm.				
	WG Elect. Test Data Report C57.12.37	Dist	WG will not meet this time.		
8:00 am - 10:45 am	IEC TC-14 Technical Advisory Group (all interested individuals welcome)	++	P. Hopkinson	20 CL	Nicollet (2nd Floor)
8:00 am - 9:15 am	WG 3-ph UG Distr. Transf. C57.12.24	UTNP	G. Termini	40 CL	Ramsey (2nd)
8:00 am - 9:15 am	TF Arc Furnace Transformers C57.17	Power	D. Corsi	60 CL	Duluth (3rd)
8:00 am - 9:15 am	TF Dry-Type Reactors	Dry	R. Dudley	80 CL	Hennepin/Carver (2nd Floor)
8:00 am - 9:15 am	Short Circuit Tests Guide C57.133 and revision to C57.12.90, Section 12	PCS	M. Fortin	80 CL	Marquette/Lasalle (2nd Floor)
8:00 am - 9:15 am	TF Electrical Partial Discharge Measurements Guide C57.113	DiTests	E. Lemke	100 CL S3	Ballroom E (3rd)
8:00 am - 9:15 am	WG Transformer Monitoring C57.143	Power	D. Chu/A. Lux	175 CL S3	Ballroom FG (3rd)
9:15 am - 9:30 am	<i>Break (beverages only)</i>			3rd Floor Foyer	

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Monday, October 15 (continued)					
	WG Acoustic PD Measure. PC57.127	DiTests	Document in final stages. No further WG meetings.		
9:30 am - 10:45 am	WG Sealed Dry-type Power Transf. C57.12.52 New!	Dry	S. Kennedy	40 CL	Ramsey (2nd)
9:30 am - 10:45 am	WG Liquid-immersed Secondary Network Transformers C57.12.40	UTNP	B. Klaponski	60 CL	Duluth (3rd)
9:30 am - 10:45 am	WG Revision of C57.12.10	Power	J. Arteaga	80 CL	Hennepin/Carver
9:30 am - 10:45 am	WG Overhead Distribution Transformers C57.12.20	Dist	A. Wilks/ T.Cooper	80 CL	Marquette/Lasalle (2nd)
9:30 am - 10:45 am	WG PCS Rev. to Test Code C57.12.90	PCS	M. Perkins	100 CL S3	Ballroom E (3rd)
9:30 am - 10:45 am	(TBD)			175 CL S3	Ballroom FG (3rd)
10:45 am - 11:00 am	<i>Break (beverages only)</i>			3rd Floor Foyer	
11:00 am - 12:15 pm	WG Dry-Type Gen. Require. C57.12.01	Dry	J. Sullivan	40 CL	Ramsey (2nd)
11:00 am - 12:15 pm	WG Shunt Reactors C57.21	PCS	R. Dudley	60 CL	Duluth (3rd)
11:00 am - 12:15 pm	WG Thermal Evaluation of Power and Distribution Transf. C57.100	IL	R. Wicks	80 CL	Hennepin/Carver (2nd)
11:00 am - 12:15 pm	WG 1-ph Padmount Distribution Transformers C57.12.25	Dist	A. Ghafourian/ I. Ares	80 CL	Marquette/Lasalle (2nd)
11:00 am - 12:15 pm	WG Revision to Low Frequency Tests	DiTests	B. Poulin	100 CL S3	Ballroom E (3rd)
11:00 am - 12:15 pm	WG Standard for Control Cabinets	Power	J. Watson	175 CL S3	Ballroom FG (3rd)
12:15 pm - 1:30 pm	<u>Lunch Meeting</u> : Stds Development Process Review -- All activity chairs are encouraged to attend. -- Advance reservation required (\$20 for box lunch). -- No paper tickets. Admission verified at the door.		B. Chiu (Stds SC)	100 RT (8/tbl)	Ballroom D (3rd)
1:45 pm - 3:00 pm	WG Thermal Evaluation C57.12.56 and C57.12.60	Dry	R. Provost/ R. Wicks	40 CL	Ramsey (2nd)
1:45 pm - 3:00 pm	SC HVDC Converter Transformers and Smoothing Reactors	HVDC	R. Dudley	60 CL	Duluth (3rd)
1:45 pm - 3:00 pm	WG Frequency Response Analysis (FRA) Guide PC57.149	PCS	C. Sweetser	80 CL	Hennepin/Carver (2nd)
1:45 pm - 3:00 pm	WG 3-ph Padmount Distribution Transformers C57.12.34	Dist	R. Stahara/ S. Shull	80 CL	Marquette/Lasalle (2nd)
1:45 pm - 3:00 pm	(TBD)			100 CL S3	Ballroom E (3rd)
1:45 pm - 3:00 pm	WG Tap Changer Performance C57.131	Power	W. Henning	175 CL S3	Ballroom FG (3rd)
3:00 pm - 3:15 pm	<i>Break (beverages and treats)</i>			3rd Floor Foyer	
	TF Core Overexcitation Requirements	PCS	Work nearly complete. No TF meeting necessary.		
3:15 pm - 4:30 pm	Joint WG Optical Instrument Transf. C57.13/PSIM P1601	IT/PSIM	Rahmatian/ Gilleland	40 CL	Ramsey (2nd)
3:15 pm - 4:30 pm	WG 1-ph Submersible Distribution Transformers C57.12.23	UTNP	A. Traut/ B. Basu	60 CL	Duluth (3rd)
3:15 pm - 4:30 pm	TF IEEE-IEC Cross Reference	Stds	J. Sim	80 CL	Hennepin/Carver
3:15 pm - 4:30 pm	WG Dry-Type Test Code C57.12.91	Dry	D. Foster	80 CL	Marquette/Lasalle
3:15 pm - 4:30 pm	WG PCS Revisions to C57.12.00	PCS	S. Snyder	100 CL S3	Ballroom E (3rd)
3:15 pm - 4:30 pm	WG Impulse Guides C57.98 & C57.138	DiTests	A. Molden	175 CL S3	Ballroom FG (3rd)
4:30 pm - 4:45 pm	<i>Break (beverages only)</i>			3rd Floor Foyer	
4:45 pm - 6:00 pm	Presentation #1: "Transformer Switching; A Current Update, Part 1; Background and New Findings", by Degeneff, Girgis, Hopkinson, and others. Sponsored by SC Performance Characteristics. **			250 CL S3 (add 75 TH seats in rear)	Ballroom FG (3rd)

** Contact N. Kent Haggerty (n.kent.haggerty@ieee.org) if you are interested in making a technical presentation at a future meeting.

<u>DATE/TIME</u>	<u>ACTIVITY</u>	<u>SUB-COM</u>	<u>ACTIVITY CHAIR</u>	<u>ROOM CAP/ARR/AV</u>	<u>MEETING ROOM</u>
Tuesday, October 16 -- Tuesday Breaks Sponsored by TBEA Transformers ***					
7:00 am - 12:00 pm	Meeting Registration – Window in Red Wing Room – overlooking Foyer				3rd Floor Foyer
7:00 am - 6:00 pm	Internet Cafe'			12 SQ	Directors Row #2
7:00 am - 8:00 am	NEMA ST-1/ST-20 Revision (breakfast meeting)			14 CONF	Rochester (3rd)
7:00 am - 8:00 am	Breakfast - Attendees (no companions please)			275 RT (8/tbl)	Ballroom D (3rd)
8:00 am - 9:00 pm	Breakfast - Companions (no meeting attendees please)			60 RT (8/tbl)	Carvers (Lobby)
9:15 am - 4:30 pm	<u>Companion Tour</u> : "Minneapolis Area Tour." Includes lunch. -- Advance registration required. The bus departs the Hilton Hotel at 9:15 am and returns by 4:30 pm.				
8:00 am - 9:15 am	WG Test Requirements for HV Instrument Transformers C57.13.5	IT	R. McTaggart/ P. Riffon	40 CL	Ramsey (2nd)
8:00 am - 9:15 am	(TBD)			60 CL	Duluth (3rd)
8:00 am - 9:15 am	WG Rev. Field Test Guide IEEE 62	Stds	J. Verner	80 CL	Hennepin/Carver
8:00 am - 9:15 am	WG Enclosure Integrity C57.12.28, C57.12.29, C57.12.31, C57.12.32	Dist	R. Olen/ D. Mulkey	80 CL	Marquette/Lasalle
8:00 am - 9:15 am	WG Natural Ester-based Fluids C57.147	IF	P. McShane	100 CL S3	Ballroom E (3rd)
8:00 am - 9:15 am	WG Switching Transients Induced by Transf./Breaker Interaction PC57.142	PCS	R. Degeneff	175 CL S3	Ballroom FG (3rd)
9:15 am - 9:30 am	<i>Break (beverages only)</i>			3rd Floor Foyer	
	TF Transformers for Wind Farms	Power	Work is complete. TF will not meet again.		
9:30 am - 10:45 am	WG Terminal Markings C57.12.70	Stds	S. Shull	40 CL	Ramsey (2nd)
9:30 am - 10:45 am	WG Neutral Ground. Devices PC57.32	PCS	S. Schappell	60 CL	Duluth (3rd)
9:30 am - 10:45 am	TF Functional Life Tests, De-energized Tap Changers (DETC)	Power	P. Hopkinson	80 CL	Hennepin/Carver (2nd)
9:30 am - 10:45 am	WG Revision to Loading Guide C57.91	IL	T. Raymond	80 CL	Marquette/Lasalle
9:30 am - 10:45 am	TF GSU Bushing Standardization	Bush	L. Recksiedler	100 CL S3	Ballroom E (3rd)
9:30 am - 10:45 am	(TBD)			175 CL S3	Ballroom FG (3rd)
10:45 am - 11:00 am	<i>Break (beverages only)</i>			3rd Floor Foyer	
	WG Dist. Substation Transf. C57.12.36	Dist	Document successfully balloted. WG will not meet.		
11:00 am - 12:15 pm	WG Loss Tolerance and Measurement	PCS	E. teNyenhuis	40 CL	Ramsey (2nd)
11:00 am - 12:15 pm	WG Phase-shift Transf. Guide C57.135	Power	J. Sim	60 CL	Duluth (3rd)
11:00 am - 12:15 pm	TF Transf. Tank Rupture & Mitigation	Power	P. Zhao	80 CL	Hennepin/Carver
11:00 am - 12:15 pm	WG Temp. Rise Test Procedures in Section 11 of C57.12.90	IL	P. Powell	80 CL	Marquette/Lasalle (2nd)
11:00 am - 12:15 pm	WG Guide for DGA in LTCs C57.139	IF	F. Jakob	100 CL S3	Ballroom E (3rd)
11:00 am - 12:15 pm	TF Transformer Efficiency and Loss Evaluation (DOE Activity) New!	Dist	P. Hopkinson	175 CL S3	Ballroom FG (3rd)
12:15 pm - 1:30 pm	<u>Speaker Luncheon</u> by Ms. Wanda Reder, PES President-Elect -- Advance registration is necessary. -- Paper tickets are not provided. Admission verified at the door.			160 CL (8/tbl) with elevated table for 5	Ballroom D (3rd)
	WG Non-sinusoidal Loads C57.140	PCS	Document in balloting process. WG will not meet.		
1:45 pm - 3:00 pm	(TBD)			40 CL	Ramsey (2nd)
1:45 pm - 3:00 pm	WG Revision to IEEE 638	Power	C. Swinderman	60 CL	Duluth (3rd)
1:45 pm - 3:00 pm	WG Dielectric Test Tables, Liquid-filled	DiTests	P. Hopkinson	80 CL	Hennepin/Carver
1:45 pm - 3:00 pm	WG Voltage Step Regulators C57.15	Dist	Colopy/Kennedy	80 CL	Marquette/Lasalle
1:45 pm - 3:00 pm	WG Revision to Gas Guide C57.104	IF	R. Ladroga	100 CL S3	Ballroom E (3rd)
1:45 pm - 3:00 pm	(TBD)			175 CL S3	Ballroom FG (3rd)
3:00 pm - 3:15 pm	<i>Break (beverages and treats)</i>			3rd Floor Foyer	

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Tuesday, October 16 (continued)					
3:15 pm - 4:30 pm	WG Sound Level Measurement Guide	ASV	J. Puri	40 CL	Ramsey (2nd)
3:15 pm - 4:30 pm	WG Semiconductor Rectifier Transformers C57.18.10	PCS	S. Kennedy	60 CL	Duluth (3rd)
3:15 pm - 4:30 pm	WG Bushing Applicat. Guide C57.19.100	Bush	T. Spitzer	80 CL	Hennepin/Carver (2nd)
3:15 pm - 4:30 pm	WG for Bar Coding Distribution Transformers C57.12.35	Dist	L. Matthews/ G. Termini	80 CL	Marquette/Lasalle (2nd)
3:15 pm - 4:30 pm	WG Revision to Impulse Tests	DiTests	P. Riffon/ P. Heinzig	100 CL S3	Ballroom E (3rd)
3:15 pm - 4:30 pm	WG Transportation Issues Guide	Power	G. Anderson	175 CL S3	Ballroom FG (3rd)
4:30 pm - 4:45 pm	<i>Break (beverages only)</i>			3rd Floor Foyer	
4:45 pm - 6:00 pm	Presentation #2: "Transformer Switching; A Current Update, Part 2; Mitigation Techniques", by Degeneff, Girgis, Hopkinson, and others. Sponsored by PCS. ** (Part 1 presented Monday at 4:45 pm)			250 CL S3 (add 75 TH seats in rear)	Ballroom FG (3rd)
7:30 pm show time	Bonus Activity #2: Guthrie Theater Presentation, "The Home Place". We have reserved a limited number of tickets for our group. Register on-line by September 19. No transportation provided (suggest take city taxi). Note: There is a similar event on Saturday evening.				

Wednesday, October 17 -- Wednesday Breaks Sponsored by Baron USA ***

No Meeting Registration, No Companion Tours					
7:00 am - 6:00 pm	Internet Cafe'			12 SQ	Directors Row #2 (3rd)
7:00 am - 8:00 am	Breakfast - Attendees (no companions please)			250 RT (8/tbl)	Ballroom D (3rd)
8:00 am - <u>9:30 am</u>	Breakfast - Companions (no meeting attendees please)			60 RT (8/tbl)	Carvers (Lobby)
7:00 am - 7:45 am	SC Meetings Planning Get breakfast in Ballroom D and take to Duluth Room. Arrive early!	Mtgs	G. Anderson	30 CL	Duluth (3rd)
8:00 am - 9:15 am	EL&P Delegation (Users only meeting)	++	K. Hanus	25 CL	Directors Row #3 (3rd Floor)
8:00 am - 9:15 am	SC Instrument Transformer	IT	J. Smith	60 CL	Duluth (3rd)
8:00 am - 9:15 am	SC Audible Sound & Vibration	ASV	J. Puri	100 CL S3	Ballroom E (3rd)
8:00 am - 9:15 am	SC Insulation Life	IL	D. Platts	200 CL S3	Ballroom FG (3rd)
9:15 am - 9:30 am	<i>Break (beverages only)</i>			3rd Floor Foyer	
9:30 am - 10:45 am	(TBD)			60 CL	Duluth (3rd)
9:30 am - 10:45 am	SC UG Transf. & Network Protectors	UTNP	C. Niemann	100 CL S3	Ballroom E (3rd)
9:30 am - 10:45 am	SC Dielectric Tests	DiTests	L. Wagenaar	200 CL S3	Ballroom FG (3rd)
10:45 am - 11:00 am	<i>Break (beverages only)</i>			3rd Floor Foyer	
11:00 am - 12:15 pm	(TBD)			60 CL	Duluth (3rd)
11:00 am - 12:15 pm	SC Insulating Fluids	IF	R. Ladroga	100 CL S3	Ballroom E (3rd)
11:00 am - 12:15 pm	SC Performance Characteristics	PCS	R. Girgis	200 CL S3	Ballroom FG (3rd)
12:15 pm - 1:30 pm	Lunch (on your own)				
1:30 pm - 2:45 pm	(TBD)			60 CL	Duluth (3rd)
1:30 pm - 2:45 pm	SC Dry Type	Dry	C. Johnson	100 CL S3	Ballroom E (3rd)
1:30 pm - 2:45 pm	SC Power Transformers	Power	T. Lundquist	200 CL S3	Ballroom FG (3rd)
2:45 pm - 3:00 pm	<i>Break (beverages and treats)</i>			3rd Floor Foyer	

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KEY

Note: A PC projector will be furnished in each meeting room. Arrive early to ensure that equipment operates/syncs correctly. Overhead projectors are available in the meeting registration area.

> -- activity continued into another session / from another session

++ -- not a Transformers Committee activity TBD = "To Be Determined"

FC = flip chart; S1 = sound (see note)

S2 = stand mic in front only; S3 = one stand mic in front & stand mic(s) at mid-room

CL -- classroom seating (w/head table for 2-3)

TH -- theater seating (with head table for 2-3)

RT -- multiple roundtables (8-9/table)

US -- U-shape table

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Wednesday, October 17 (continued)					
3:00 pm - 4:15 pm	(TBD)			60 CL	Duluth (3rd)
3:00 pm - 4:15 pm	SC Bushings	Bush	F. Elliott	100 CL S3	Ballroom E (3rd)
3:00 pm - 4:15 pm	SC Distribution Transformers	Dist	K. Hanus	200 CL S3	Ballroom FG (3rd)
4:15 pm - 4:30 pm	<i>Break (beverages only)</i>			3rd Floor Foyer	
4:30 pm - 5:30 pm	SC Transformer Standards	Stds	B. Chiu	100 CL S3	Ballroom E (3rd)
6:00 pm - 10:00 pm	<u>Dinner Social</u> : Dinner at the "Science Museum of Minnesota". Advance registration is necessary. -- Buses begin boarding at 5:45 pm. The last bus leaves at 6:00 pm. All buses return before 10:00 pm. -- Paper tickets will not be provided. Admission will be verified with a registration list as you board the bus.				

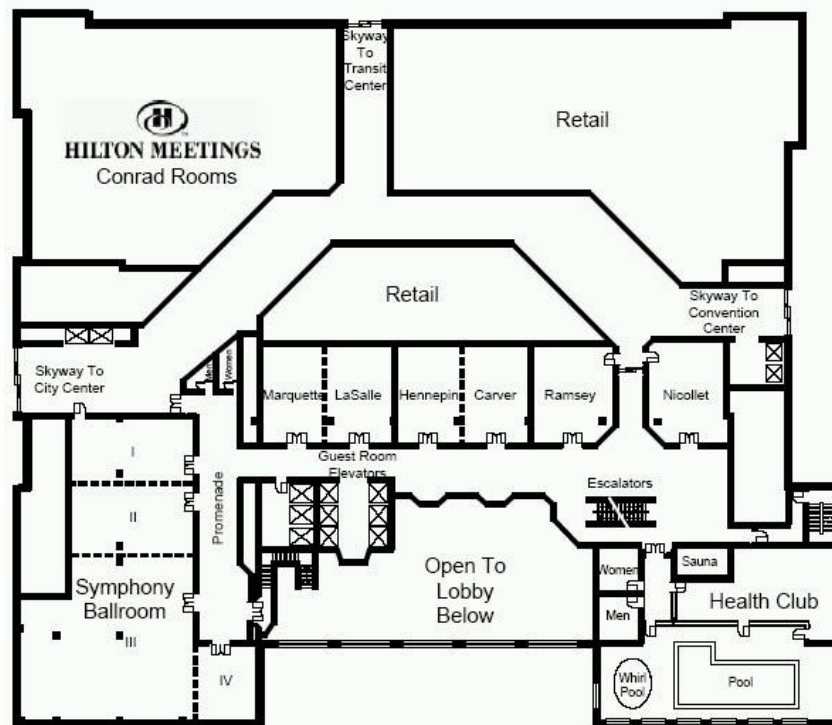
Thursday, October 18

No Meeting Registration, No Technical Tours, No Companion Tours, No Internet Cafe', No EPRI Meeting					
7:00 am - 8:00 am	Breakfast - Attendees (no companions please)			225 RT (8/tbl)	Ballroom D (3rd)
8:00 am - <u>9:30 am</u>	Breakfast - Companions (no meeting attendees please)			60 RT(8/tbl)	Carvers (Lobby)
8:00 am - 9:45 am >	General Session, Transformers Committee -- <u>All attendees</u> are encouraged to attend. -- See separate document for meeting agenda.		D. Fallon	250 CL S1 2 per 6' and <u>elevat.</u> table for 4	Ballroom ABC (3rd)
9:45 am - 10:00 am	<i>Break (beverages only)</i>			3rd Floor Foyer	
> 10:00 am - 11:30 am	General Session, Transformers Committee		D. Fallon	250 CL S1	Ballroom ABC (3rd)
1:00 pm - 5:00 pm	(TBD)			12 US	Ramsey (2nd)

Friday, October 19

No Transformer Committee Meetings, No Internet Cafe', No EPRI Meeting					
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MEETING FACILITIES - SECOND FLOOR



MEETING FACILITIES - THIRD FLOOR

