

IEEE/PES TRANSFORMERS COMMITTEE

www.transformerscommittee.org

Spring 2010 Meeting; March 7-11

Hosted by Jeremy Kriska and Tulstar Products, Inc.

Omni Houston Hotel; Houston, Texas 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, March 6					
	No Meeting Registration, No Social Events				
9:00 am - 5:00 pm >	Joint WG HVDC Bushings IEC/IEEE 65700-19-03			24 CL	Windsor
Sunday, March 7					
> 9:00 am - 12:00 pm	Joint WG HVDC Bushings IEC/IEEE 65700-19-03			24 CL	Windsor
9:00 am - 4:00 pm	Day Tour: NASA Space Center -- Indicate your desire to attend while registering on-line for the Committee Meeting. -- Bus will depart the Omni at 9:00 am and return around 4:00 pm. Eat breakfast before boarding bus. -- Arrangements will be made to return certain individuals to the hotel by 1:30 pm if necessary.				
1:00 pm - <u>5:30 pm</u>	Meeting Registration				Regency Foyer
2:00 pm - 5:30 pm	Administrative SC -- closed meeting, by invitation only	Admin.	E. Smith	24 US (w/snack buffet)	Essex
2:00 pm - 5:30 pm	NEMA Transformers -- closed meeting, by invitation only	++	C. Drexler	16 US (w/beverages)	Windsor
6:00 pm - 8:00 pm	Welcome Reception (reception hosted by Nynas USA)			375 Reception	Regency Ballroom
Monday, March 8 -- Monday Breaks Sponsored by Dynamic Ratings ***					
7:00 am - <u>4:00 pm</u>	Meeting Registration (staff for on-site registration provided by Nynas USA)				Regency Foyer
7:00 am - 6:00 pm	Internet Cafe'			12 SQ	Bristol
<u>7:00 am</u> - 7:50 am	Newcomers Orientation Breakfast Mtg (<u>arrive early!</u>) -- Newcomers & Guests are encouraged to attend! -- food will be served in the room		B. Chiu	40 CL	Westbury
7:00 am - 7:45 am	Distribution SC Leaders Coordination -- closed meeting, by invitation only		S. Shull	12 CONF	Noe Private Dining Room
7:00 am - 8:00 am	Breakfast - Attendees (no spouses/companions please)			250 RT (8/tbl)	Grand Salon
8:00 am - 9:00 am	Breakfast - Spouses/Companions (no meeting attendees please)			72 RT (8/tbl)	Palm Court
9:15 am - 3:30 pm	<u>Spouses/Companions Tour</u> : "Houston City & Medical Center Tour and Butterfly Center". Includes lunch. -- Advance registration required. Bus departs the Omni Hotel at 9:15 am and returns around 3:30 pm.				
<u>8:15 am</u> - 10:45 am	IEC TC-14 Technical Advisory Group (all interested individuals welcome)	++	P. Hopkinson	40 CL 20 TH (wall)	Westbury
8:00 am - 9:15 am	WG Dry-Type Reactors C57.16	Dry	R. Dudley	48 CL	Regency C
8:00 am - 9:15 am	WG 3-ph Underground Distribution Transformers C57.12.24	UTNP	G. Termini	48 CL	Regency G
8:00 am - 9:15 am	TF Particle Count (New!)	IF	M. Scarborough	80 CL	Regency AB
8:00 am - 9:15 am	TF DPV Grid Transformers	Power	H. Shertukde	80 CL	Regency EF
8:00 am - 9:15 am	TF Electrical Partial Discharge Measurements Guide C57.113	DiTests	E. Lemke	100 CL S3	Regency D
8:00 am - 9:15 am	WG Loss Evaluation Guide C57.120	PCS	A. Traut/ D. Duckett	150 CL S3	Colonnade AB
9:15 am - 9:30 am	Break (beverages only)				Regency Foyer

*** Contact Joe Watson (joe_watson@ieee.org) if you are interested in sponsoring coffee-breaks 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>
Monday, March 8 (continued)					
	WG Revision of C57.12.10	Will not meet. Ballot resolution process.			
9:30 am - 10:45 am	WG Sealed Dry-Type Power Transf. C57.12.52	Dry	S. Kennedy	48 CL	Regency C
9:30 am - 10:45 am	WG Liquid-immersed Secondary Network Transformers C57.12.40	UTNP	B. Klaponski	48 CL	Regency G
9:30 am - 10:45 am	WG Overhead Distribution Transformers C57.12.20	Dist	A. Traut/ C. Simmons	80 CL	Regency AB
9:30 am - 10:45 am	TF Furan Tests	IL	TBD	80 CL	Regency EF
9:30 am - 10:45 am	TF External Dielectric Clearances	DiTests	E. Davis	100 CL S3	Regency D
9:30 am - 10:45 am	WG PCS Rev. to Test Code C57.12.90	PCS	M. Perkins	150 CL S3	Colonnade AB
10:45 am - 11:00 am	<i>Break (beverages only)</i>			Regency Foyer	
	WG Control Cabinets PC57.148	Will not meet. Ballot resolution process.			
11:00 am - 12:15 pm	WG Dry-Type Gen. Require. C57.12.01	Dry	T. Holdway	48 CL	Regency C
11:00 am - 12:15 pm	WG Std Requires for Sec. Network Protectors C57.12.44	UTNP	B. Wimmers	48 CL	Regency G
11:00 am - 12:15 pm	WG 1-ph Padmount Distribution Transformers C57.12.38 (12.21 & 12.25)	Dist	A. Ghafourian/ M. Faulkenberry	80 CL	Regency AB
11:00 am - 12:15 pm	TF Transf. Tank Rupture & Mitigation	Power	P. Zhao	80 CL	Regency EF
11:00 am - 12:15 pm	TF IEEE-IEC Cross Reference	Stds	J. Sim	100 CL S3	Regency D
11:00 am - 12:15 pm	WG Thermal Evaluation C57.100	IL	R. Wicks	150 CL S3	Colonnade AB
12:15 pm - 1:30 pm	<u>Lunch Meeting:</u> Standards Development Review -- All SC/WG/TF leaders are encouraged to attend. -- Advance reservation required (\$20 for box lunch). -- No paper tickets. Admission verified at the door.		B. Bartley	120 (8/tbl)	Grand Salon
	WG 3-ph Padmount Distrib. C57.12.34	Document is approved. Will meet again in the fall.			
1:45 pm - 3:00 pm	SC HVDC Converter Transformers and Smoothing Reactors	HVDC	R. Dudley	48 CL	Regency C
1:45 pm - 3:00 pm	WG Tap Changer Performance C57.131	Power	W. Henning	48 CL	Regency G
1:45 pm - 3:00 pm	WG Dist. Transf. Bar Coding C57.12.35	Dist	L. Matthews	80 CL	Regency AB
1:45 pm - 3:00 pm	TF Special Dielectric Test Issues	DiTests	B. Forsyth	80 CL	Regency EF
1:45 pm - 3:00 pm	WG High Temp. Transformers PC57.154	IL	R. Marek	100 CL S3	Regency D
1:45 pm - 3:00 pm	WG Frequency Response Analysis (FRA) Guide PC57.149	PCS	C. Sweetser	150 CL S3	Colonnade AB
3:00 pm - 3:15 pm	<i>Break (beverages and treats)</i>			Regency Foyer	
3:15 pm - 4:30 pm	WG Dry-Type Test Code C57.12.91	Dry	D. Foster	48 CL	Regency C
3:15 pm - 4:30 pm	WG Harmonizing IEEE & IEC Standards	Stds	J. Puri	48 CL	Regency G
3:15 pm - 4:30 pm	WG Transformer Paralleling Guide	Power	T. Jauch	80 CL	Regency AB
3:15 pm - 4:30 pm	TF PD in Bushings and PTs/CTs	DiTests	T. Hochanh	80 CL	Regency EF
3:15 pm - 4:30 pm	TF Moisture in Oil	IF	B. Rasor	100 CL S3	Regency D
3:15 pm - 4:30 pm	WG PCS Revisions to C57.12.00	PCS	S. Snyder	150 CL S3	Colonnade AB
4:30 pm - 4:45 pm	<i>Break (beverages only)</i>			Regency Foyer	
4:45 pm - 6:00 pm	Presentation: "Geo-magnetically Induced Currents (GIC) and the Effects on Power Transformers", by P. Balma, L. Buldoc, R. Girgis, and H. Nordman. Sponsored by SC Power Transformers **			250 S3 (add 100 TH seats)	Colonnade AB
6:15 pm - 12:00 am	<u>Social Event:</u> "A Night at the Houston Livestock Show and Rodeo", with Tim McGraw concert. -- Rodeo starts at 6:45 pm. Concert starts ~9:00 pm. -- Advanced registration required. Indicate your desire to attend while registering for the Committee Meeting. -- Paper tickets can be collected at the Committee Meeting registration desk. -- Buses will depart the Omni Hotel at 6:15 pm and return around midnight.				

** Contact Greg Anderson (gwanderson@ieee.org) if you are interested in making a technical presentation at a future meeting.

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Tuesday, March 9 -- Tuesday Breaks Sponsored by Weidmann ***					
7:00 am - <u>12:00 pm</u>	Meeting Registration (staff for on-site registration provided by Nynas USA)				Regency Foyer
7:00 am - 6:00 pm	Internet Cafe'			12 SQ	Bristol
7:00 am - 8:00 am	Breakfast - Attendees (no spouses/companions please)			250 RT (8/tbl)	Grand Salon (lobby level)
8:00 am - 9:00 am	Breakfast - Spouses/Companions (no meeting attendees please)			72 RT (8/tbl)	Palm Court
9:15 am - 2:30 pm	<u>Spouses/Companions Tour</u> : "Bayou Bend and Gardens Tour". Includes lunch. -- Advance registration required. Bus departs the Omni Hotel at 9:15 am and returns around 2:30 pm.				
	WG Switching Transients PC57.142	Document recirculation is complete; will meet in fall.			
8:00 am - 9:15 am	TF Milli-ampere Current Transf. (New!)	IT	Alton/Nguyen	48 CL	Regency C
8:00 am - 9:15 am	WG PC57.152 Field Test Guide	Stds	J. Verner	48 CL	Regency G
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	Regency AB
8:00 am - 9:15 am	TF Wind Power Transformers (New!)	Power	D. Buckmaster	80 CL	Regency EF
8:00 am - 9:15 am	WG Oil Reclamation Guide PC57.637	IF	J. Thompson	100 CL S3	Regency D
8:00 am - 9:15 am	TF Temperature Limits for Non-current Carrying Metallic Surfaces	IL	J. Ray	150 CL S3	Colonnade AB
9:15 am - 9:30 am	<i>Break (beverages only)</i>			Regency Foyer	
9:30 am - 10:45 am	WG Neutral Ground. Devices PC57.32	PCS	S. Schappell	48 CL	Regency C
9:30 am - 10:45 am	WG Terminal Markings C57.12.70	Stds	S. Shull	48 CL	Regency G
9:30 am - 10:45 am	TF Functional Life Tests, De-energized Tap Changers (DETC)	Power	P. Hopkinson	80 CL	Regency AB
9:30 am - 10:45 am	WG Impulse Test Guide C57.98/138	DiTests	A. Molden	80 CL	Regency EF
9:30 am - 10:45 am	TF DGA Natural Ester Fluids	IF	P. Boman	100 CL S3	Regency D
9:30 am - 10:45 am	WG Revision to Loading Guide C57.91	IL	D. Duckett	150 CL S3	Colonnade AB
10:45 am - 11:00 am	<i>Break (beverages only)</i>			Regency Foyer	
	WG Voltage Step Regulators C57.15	Document published in December. Will meet in the fall.			
11:00 am - 12:15 pm	WG Revision to IEEE 638	Power	C. Swinderman	48 CL	Regency C
11:00 am - 12:15 pm	WG Bushing Application Guide C57.19.100	Bush	T. Spitzer	48 CL	Regency G
11:00 am - 12:15 pm	TF Tank Pressure Coordination (New!)	Dist	C. Gaytan	80 CL	Regency AB
11:00 am - 12:15 pm	TF Tertiary/Stabilization Windings	PCS	E. Betancourt	80 CL	Regency EF
11:00 am - 12:15 pm	WG Guide for DGA in LTCs C57.139	IF	F. Jakob	100 CL S3	Regency D
11:00 am - 12:15 pm	WG Temperature Rise Test Procedures in Section 11 of C57.12.90	IL	P. Powell	150 CL S3	Colonnade AB
12:15 pm - 1:30 pm	<u>Speaker Luncheon</u> : Jim "Mattress Mack" McIngvale -- Topic: "Overcoming Adversity ". Advance registration is necessary. -- Paper tickets are not provided. Admission verified at the door.			240 (8/tbl) with elevated table for 5	Grand Salon
1:45 pm - 3:00 pm	WG Phase-shift Transf. Guide C57.135	Power	J. Sim	48 CL	Regency C
1:45 pm - 3:00 pm	WG Dry-type Loading Guide PC57.96 (New!)	Dry	R. Marek	48 CL	Regency G
1:45 pm - 3:00 pm	TF Transformer Efficiency and Loss Evaluation (DOE Activity)	Dist	P. Hopkinson	80 CL	Regency AB
1:45 pm - 3:00 pm	TF GSU Bushing Standardization	Bush	C. Hurley	80 CL	Regency EF
1:45 pm - 3:00 pm	WG Revision to Gas Guide C57.104	IF	R. Ladroga	100 CL S3	Regency D
1:45 pm - 3:00 pm	WG Revision to Low Frequency Tests	DiTests	B. Poulin	150 CL S3	Colonnade AB
3:00 pm - 3:15 pm	<i>Break (beverages and treats)</i>			Regency Foyer	

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Tuesday, March 9 (continued)			Work		
3:15 pm - 4:30 pm	TF Semiconductor Rectifier Transformers C57.18.10	PCS	S. Kennedy	48 CL	Regency C
3:15 pm - 4:30 pm	WG Electronic Test Data Reporting C57.12.37	Dist	J. Crotty	48 CL	Regency G
3:15 pm - 4:30 pm	TF ASV Revision to Test Code C57.12.90	ASV	R. Girgis	80 CL	Regency AB
3:15 pm - 4:30 pm	WG Revisions to Impulse Test Sections of C57.12.00 and C57.12.90	DiTests	P. Riffon/ P. Heinzig	80 CL	Regency EF
3:15 pm - 4:30 pm	TF Field Application of Natural Ester Fluids	IF	J. Graham	100 CL S3	Regency D
3:15 pm - 4:30 pm	WG Transportation Issues Guide	Power	G. Anderson	150 CL S3	Colonnade AB
4:30 pm - 4:45 pm	<i>Break (beverages only)</i>			Regency Foyer	
4:45 pm - 6:00 pm	Presentation: "Transformer Tank Rupture and Mitigation", by W. Darovny, M. Foata, J. Herz, W. Johnson, C. Swinderman, and P. Zhao. Sponsored by Power Transformers SC **			250 S3 (add 100 TH seats)	Colonnade AB
6:30 pm - 10:00 pm	<u>Technical Tour:</u> Weidmann Diagnostic Testing Laboratory. Everyone is invited. -- Indicate your desire to attend while registering on-line for the Committee Meeting. -- Bus will depart the Omni at 6:30 pm and return around 10:00 pm. Dinner will be served at the facility. -- For more details, contact Tom Prevost at +802.751.3458 or <tom.prevost@wicor.com>.				
6:30 pm - 10:00 pm	<u>Technical Tour:</u> ABB Marine Services and Azipod Workshop -- Attendance limited to Committee Members and Active Participants. -- Indicate your desire to attend while registering on-line for the Committee Meeting. -- Bus will depart the Omni at 6:30 pm and return around 10:00 pm. Dinner will be served at the facility. -- Contact Craig Muirhead at +713.453.1253, ext. 102 or <craig.muirhead@us.abb.com> for more details.				
6:30 pm - 10:00 pm	<u>Technical Tour:</u> Huntsman Advanced Technology Center (HATC). -- Restricted attendance; by invitation only (Huntsman will send invitations separately) -- Bus will depart the Omni at 6:30 pm and return around 10:00 pm. Dinner will be served at HATC. -- For more details, contact Dawn Adair at +281.719.4490 or <dawn_adair@huntsman.com>.				

Wednesday, March 10 -- Wednesday Breaks Sponsored by AREVA T&D ***

No Meeting Registration, No Technical Tours, No Spouse/Companion Tour					
7:00 am - 6:00 pm	Internet Cafe'			12 SQ	Bristol
7:00 am - 8:00 am	Breakfast - Attendees (no spouses/companions please)			<u>200</u> RT (8/tbl)	Grand Salon
8:00 am - <u>9:30 am</u>	Breakfast - Spouses/Companions (no meeting attendees please)			72 RT (8/tbl)	Palm Court
7:00 am - 7:45 am	SC Meetings Planning -- breakfast buffet in room	Meetings	G. Anderson	30 CL	Essex
8:00 am - 9:15 am	EL&P Delegation (Users only meeting)	++	S. Shull	50 CL	<u>Regency BC</u>
8:00 am - <u>10:45 am</u>	SC Instrument Transformers	IT	J. Smith	30 CL	<u>Essex</u>
8:00 am - 9:15 am	SC Insulation Life	IL	B. Forsyth	200 CL S3	Colonnade AB
9:15 am - 9:30 am	<i>Break (beverages only)</i>			Regency Foyer	
9:30 am - 10:45 am	SC Audible Sound & Vibration	ASV	J. Puri	75 CL	Regency BC
9:30 am - 10:45 am	SC Bushings	Bush	F. Elliott	100 CL S3	Regency D
9:30 am - 10:45 am	SC Distribution Transformers	Dist	S. Shull	200 CL S3	Colonnade AB
10:45 am - 11:00 am	<i>Break (beverages only)</i>			Regency Foyer	
11:00 am - 12:15 pm	SC UG Transf. & Network Protectors	UTNP	C. Niemann	50 CL	Regency A
11:00 am - 12:15 pm	SC Dielectric Tests	DiTests	L. Wagenaar	200 CL S3	Colonnade AB
12:15 pm - 1:30 pm	Lunch (on your own)				

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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, March 10 (continued)					
1:30 pm - 2:45 pm	SC Dry Type	Dry	C. Johnson	50 CL	Regency A
1:30 pm - 2:45 pm	SC Power Transformers	Power	T. Lundquist	200 CL S3	Colonnade AB
2:45 pm - 3:00 pm	<i>Break (beverages <u>and</u> treats)</i>			Regency Foyer	
3:00 pm - 4:15 pm	SC Insulating Fluids	IF	S. McNelly	75 CL	Regency BC
3:00 pm - 4:15 pm	SC Performance Characteristics	PCS	S. Antosz	200 CL S3	Colonnade AB
4:15 pm - 4:30 pm	<i>Break (beverages only)</i>			Regency Foyer	
4:30 pm - 5:30 pm	SC Transformer Standards	Stds	B. Bartley	200 CL S3	Colonnade AB
6:00 pm - 10:00 pm	<u>Dinner Social</u> : Goode's Armadillo Palace. Advance registration is necessary. -- Buses begin boarding at 5:45 pm. The last bus departs at 6:00 pm. All buses will 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, March 11

No Meeting Registration, No Spouses/Companions Tours, No Internet Cafe', No EPRI Meeting

7:00 am - 8:00 am	Breakfast - Attendees (no spouses/companions please)			200 RT (6/tbl)	Regency EFG
8:00 am - <u>9:30 am</u>	Breakfast - Spouses/Companions (no meeting attendees please)			64 RT(8/tbl)	Palm Court
8:00 am - 9:45 am >	General Session, Transformers Committee -- All attendees are encouraged to attend. -- See separate document for meeting agenda.		E. Smith	250 CL S1 50 TH elevat. table for 4	Regency ABCD
9:45 am - 10:00 am	<i>Break (beverages only)</i>			Regency Foyer	
> 10:00 am - 11:30 am	General Session, Transformers Committee		E. Smith	250 CL S1 50 TH	Regency ABCD
12:00 pm - 5:00 pm	<u>Technical Tour</u> : Boat Tour of Houston Ship Channel Refineries & Chemical Plants. Hosted by Tulstar Products, Inc. Includes "lunch-and-learn" presentation on "The Manufacture of Transformer Fluids". -- Bus will depart the Omni at 12:00 pm and return before 5:00 pm. -- Indicate your desire to attend while registering on-line for the Committee Meeting. -- See flyer for additional security measures.				

Friday, March 12

No Transformer Committee Meetings, No Internet Cafe', No EPRI Meeting, No Tours.

FUTURE COMMITTEE MEETINGS

FALL 2010 - October 24-29; Toronto, Ontario CANADA. Hosted by Trench Electric.

SPRING 2011 - March 10-14; San Diego, California USA. Hosted by San Diego Gas & Electric

Omni Houston Hotel

Four Riverway, Houston, Texas 77056 USA

**Note: Attendee breakfasts and lunches
are downstairs in the Grand Salon Ballrooms**

