

**IEEE/PES TRANSFORMERS COMMITTEE**  
**www.transformerscommittee.org**  
**Fall 2010 Meeting; October 24-28**  
**Hosted by Richard Dudley and Trench Limited**  
**Hilton Downtown Toronto Hotel; Toronto, Ontario CANADA**

**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</u>
Thursday to Saturday, October 21-23	IEEE HV Testing Techniques (Standard 4) Subcommittee -- Not a Transformers Committee meeting. -- Contact Jeff Britton for information (jeff@phenixtech.com).			12 US	Richmond
<b>Saturday, October 23</b>					
No Meeting Registration, No Transformers Committee Meetings, No Social Events or Tours					
<b>Sunday, October 24</b>					
<u>8:00 am</u> - 1:00 pm	<u>Special Tour:</u> Canadian Air & Space Museum and Bombardier Downsview Facility -- Indicate your desire to attend while registering on-line for the Committee Meeting (small fee to attend). -- Bus departs at 8:00 am; returns before 1:00 pm. Eat breakfast before boarding bus. Lunch not included.				
1:00 pm - <u>5:30 pm</u>	Meeting Registration				Convention Level
2:00 pm - 5:30 pm	Administrative SC -- Closed meeting, by invitation only	Admin.	E. Smith	26 US (w/snack buffet)	Jackson/ Carmichael
2:00 pm - 5:30 pm	NEMA Transformers -- Closed meeting, by invitation only	++	C. Drexler	20 US (w/beverages)	Tom Thomson
6:00 pm - 8:00 pm	Welcome Reception			375 Reception	Toronto I / II
<b>Monday, October 25 -- Monday Breaks Sponsored by Megger ***</b>					
7:00 am - <u>4:00 pm</u>	Meeting Registration				Convention Level
7:00 am - 6:00 pm	Internet Cafe'			12 CONF	Casson
<u>7:00 am</u> - 7:50 am	<u>Newcomers Orientation Breakfast Mtg</u> (arrive early!) -- Newcomers & Guests are encouraged to attend! -- Breakfast will be served in the room		B. Chiu	60 CL S3 (with buffet, no TH chairs)	Jackson/Carmich.
7:00 am - 7:45 am	Distribution SC Leaders Coordination -- Closed meeting, by invitation only		S. Shull	12 CONF	Richmond
7:00 am - 8:00 am	Breakfast - Attendees (no spouses/companions please)			216 RT (8/tbl)	Toronto I
8:00 am - 9:00 am	Breakfast - Spouses/Companions (no meeting attendees please)			72 RT (8/tbl)	Governor General (2nd floor)
9:15 am - 4:30 pm	<u>Spouses/Companions Tour:</u> "Downtown Toronto District & Black Creek Pioneer Village". Lunch on your own. -- Advance registration required. Bus departs the Hilton at 9:15 am and returns around 4:30 pm.				
8:00 am - 9:15 am	WG Dry-Type Reactors C57.16	Dry	R. Dudley	35 MX	Johnston
8:00 am - 9:15 am	WG 3-ph Underground Distribution Transformers C57.12.24	UTNP	G. Termini	50 MX	Varley
8:00 am - 9:15 am	WG Distribution Substation Transformers C57.12.36	Dist	J. Murphy/ C. Gaytan	70 MX	Tom Thomson
<u>8:15 am</u> - 10:45 am	IEC TC-14 Technical Advisory Group (all interested individuals welcome)	++	P. Hopkinson	80 MX S3 (add 20 chairs)	Jackson/Carmich.
8:00 am - 9:15 am	TF Tertiary/Stabilization Windings	PCS	E. Betancourt	120 MX S3	Toronto II
8:00 am - 9:15 am	TF DPV Grid Transformers	Power	H. Shertukde	150 MX S3	Toronto III
9:15 am - 9:30 am	<i>Break (beverages only)</i>				Toronto Foyer

\*\*\* Contact Joe Watson (joe\_watson@ieee.org) if you are interested in sponsoring a coffee-break 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>
<b>Monday, October 25 (continued)</b>					
	<u>TF PD Measurements Guide C57.143</u>		Will not meet. Document has been published.		
9:30 am - 10:45 am	WG Sealed Dry-Type Power Transformers C57.12.52	Dry	S. Kennedy	35 MX	Johnston
9:30 am - 10:45 am	WG Liquid-immersed Secondary Network Transformers C57.12.40	UTNP	B. Klaponski	50 MX	Varley
9:30 am - 10:45 am	WG Overhead Distribution Transformers C57.12.20	Dist	A. Traut/ C. Simmons	70 MX	Tom Thomson
9:30 am - 10:45 am	TF Furan Tests	IL	S. Xu	80 MX S3	Jackson/Carmich.
9:30 am - 10:45 am	TF External Dielectric Clearances	DiTests	E. Davis	120 MX S3	Toronto II
9:30 am - 10:45 am	WG PCS Rev. to Test Code C57.12.90	PCS	M. Perkins	150 MX S3	Toronto III
10:45 am - 11:00 am	<i>Break (beverages only)</i>			Toronto Foyer	
11:00 am - 12:15 pm	WG Dry-Type Gen. Require. C57.12.01	Dry	T. Holdway	35 MX	Johnston
11:00 am - 12:15 pm	WG Standard Requires for Secondary Network Protectors C57.12.44	UTNP	B. Wimmers	50 MX	Varley
11:00 am - 12:15 pm	WG 1-ph Padmount Distribution Transformers C57.12.38 (12.21 & 12.25)	Dist	A. Ghafourian/ M. Faulkenberry	70 MX	Tom Thomson
11:00 am - 12:15 pm	TF Transform. Tank Rupture & Mitigation	Power	P. Zhao	80 MX S3	Jackson/Carmich.
11:00 am - 12:15 pm	TF IEEE-IEC Cross Reference	Stds	J. Sim	120 MX S3	Toronto II
11:00 am - 12:15 pm	WG Thermal Evaluation C57.100	IL	R. Wicks	150 MX S3	Toronto III
12:15 pm - 1:30 pm	<u>Lunch Meeting: Standards Development Review</u> -- Presentation/Discussion: "Ballot Resolution" -- 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)	Toronto I
1:45 pm - 3:00 pm	<b>TF Special Dielectric Test Issues</b> <b>SC HVDC Converter Transformers and Smoothing Reactors</b>	Will not meet. Assignment is complete.	HVDC	R. Dudley	35 MX Johnston
1:45 pm - 3:00 pm	WG Tap Changer Performance C57.131	Power	W. Henning	50 MX	Varley
1:45 pm - 3:00 pm	WG 3-ph Padmount Distribution Transformers C57.12.34	Dist	R. Stahara/ S. Shull	70 MX	Tom Thomson
1:45 pm - 3:00 pm	WG High Temp. Transformers PC57.154	IL	R. Marek	80 MX S3	Jackson/Carmich.
1:45 pm - 3:00 pm	TF Particle Count	IF	M. Scarborough	120 MX S3	Toronto II
1:45 pm - 3:00 pm	WG Frequency Response Analysis (FRA) Guide PC57.149	PCS	C. Sweetser	150 MX S3	Toronto III
3:00 pm - 3:15 pm	<i>Break (beverages and treats)</i>			Toronto Foyer	
3:15 pm - 4:30 pm	WG Dry-Type Test Code C57.12.91	Dry	D. Foster	35 MX	Johnston
3:15 pm - 4:30 pm	WG Harmonizing IEEE & IEC Standards	Stds	J. Puri	50 MX	Varley
3:15 pm - 4:30 pm	TF Tank Pressure Coordination	Dist	C. Gaytan	70 MX	Tom Thomson
3:15 pm - 4:30 pm	TF PD in Bushings and PTs/CTs	DiTests	T. Hochanh	80 MX S3	Jackson/Carmich.
3:15 pm - 4:30 pm	TF Moisture in Oil	IF	B. Rasor	120 MX S3	Toronto II
3:15 pm - 4:30 pm	WG PCS Revisions to C57.12.00	PCS	S. Snyder	150 MX S3	Toronto III
4:30 pm - 4:45 pm	<i>Break (beverages only)</i>			Toronto Foyer	
4:45 pm - 6:00 pm	Presentation: "TAPS in Autotransformers", by T. Kalicki and V. Sankar. -- Sponsored by Performance Characteristics SC **			270 MX S3	Toronto II / III
6:30 pm - 11:00 pm	<u>Technical Tour: Trench Coil &amp; Instrument Transformer Facilities.</u> -- Restricted attendance; by invitation only (Trench will send invitations separately). -- Buses depart the Hilton at 6:30 pm and return before 11:00 pm. Box dinner provided on the buses. -- For more details, contact Doris Elovaara at +416.298.4477 x232 or <doris.elovaara@trench-group.com>.				

\*\* Contact Greg Anderson (gwanderson@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>
<b>Tuesday, October 26 -- Tuesday Breaks Sponsored by XD Group and XD Transformer ***</b>					
7:00 am - 12:00 pm	Meeting Registration				Convention Level
7:00 am - 6:00 pm	Internet Cafe'			12 CONF	Casson
7:00 am - 8:00 am	Breakfast - Attendees (no spouses/companions please)			216 RT (8/tbl)	Toronto I
8:00 am - 9:00 am	Breakfast - Spouses/Companions (no meeting attendees please)			72 RT (8/tbl)	Governor General (2nd floor)
9:15 am - 4:30 pm	<u>Spouses/Companions Tour</u> : "Niagara Falls and Niagara on the Lake". Lunch at Hillebrand Winery included. -- Advance registration required. Bus departs the Hilton at 9:15 am and returns around 4:30 pm.				
	<del>WG Switching Transients PC57.142</del>		Document is complete; will meet in the spring.		
8:00 am - 9:15 am	TF Milli-ampere Current Transformers	IT	Alton/Nguyen	35 MX	Johnston
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	50 MX	Varley
8:00 am - 9:15 am	WG Oil Reclamation Guide PC57.637	IF	J. Thompson	70 MX	Tom Thomson
8:00 am - 9:15 am	TF Temperature Limits for Non-current Carrying Metallic Surfaces	IL	J. Ray	80 MX S3	Jackson/Carmich.
8:00 am - 9:15 am	WG PC57.152 Field Test Guide	Stds	J. Verner	120 MX S3	Toronto II
8:00 am - 9:15 am	TF Wind Power Transformers	Power	D. Buckmaster	150 MX S3	Toronto III
9:15 am - 9:30 am	<i>Break (beverages only)</i>			Toronto Foyer	
9:30 am - 10:45 am	WG Neutral Ground. Devices PC57.32	PCS	S. Schappell	35 MX	Johnston
9:30 am - 10:45 am	TF Functional Life Tests, De-energized Tap Changers (DETC)	Power	P. Hopkinson	50 MX	Varley
9:30 am - 10:45 am	WG Step-Voltage Regulators C57.15	Dist	C. Colopy	70 MX	Tom Thomson
9:30 am - 10:45 am	WG Impulse Test Guide C57.98/138	DiTests	A. Molden	80 MX S3	Jackson/Carmich.
9:30 am - 10:45 am	TF DGA Natural Ester Fluids	IF	P. Boman	120 MX S3	Toronto II
9:30 am - 10:45 am	WG Revision to Loading Guide C57.91	IL	D. Duckett	150 MX S3	Toronto III
10:45 am - 11:00 am	<i>Break (beverages only)</i>			Toronto Foyer	
11:00 am - 12:15 pm	WG Revision to IEEE 638	Power	C. Swinderman	35 MX	Johnston
11:00 am - 12:15 pm	WG Bushing Applicat. Guide C57.19.100	Bush	T. Spitzer	50 MX	Varley
11:00 am - 12:15 pm	TF Audible Sound & Vibration Revision to Test Code C57.12.90	ASV	R. Girgis	70 MX	Tom Thomson
11:00 am - 12:15 pm	WG Guide for DGA in LTCs C57.139	IF	F. Jakob	80 MX S3	Jackson/Carmich.
11:00 am - 12:15 pm	WG Loss Evaluation Guide C57.120	PCS	A. Traut/ D. Duckett	120 MX S3	Toronto II
11:00 am - 12:15 pm	WG Temperature Rise Test Procedures in Section 11 of C57.12.90	IL	P. Powell	150 MX S3	Toronto III
12:15 pm - 1:30 pm	<u>Speaker Luncheon</u> : Mr. Amir Shalaby, Ontario Power Authority (OPA) -- Topic: "Ontario Energy Strategy Including Green Power". -- Advance registration is necessary. -- Paper tickets are not provided. Admission verified at the door.			216 (8/tbl) with elevated table for 5	Toronto I
1:45 pm - 3:00 pm	WG Phase-shift Transf. Guide C57.135	Power	J. Sim	35 MX	Johnston
1:45 pm - 3:00 pm	WG Dry-type Loading Guide PC57.96	Dry	R. Marek	50 MX	Varley
1:45 pm - 3:00 pm	WG Bar Coding for Distribution Transformers C57.12.35	Dist	L. Matthews/ G. Termini	70 MX	Tom Thomson
1:45 pm - 3:00 pm	TF GSU Bushing Standardization	Bush	C. Hurley	80 MX S3	Jackson/Carmich.
1:45 pm - 3:00 pm	WG DGA Factory Temperature Rise Tests PC57.130	IF	J. Thompson	120 MX S3	Toronto II
1:45 pm - 3:00 pm	WG Revision to Low Frequency Tests	DiTests	B. Poulin	150 MX S3	Toronto III
3:00 pm - 3:15 pm	<i>Break (beverages and treats)</i>			Toronto Foyer	

\*\*\* Contact Joe Watson (joe\_watson@ieee.org) if you are interested in sponsoring a coffee-break 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>
<b>Tuesday, October 26 (continued)</b>					
	TF Field Applicat. of Natural Ester Fluids		Work		
	WG Test Data Reporting C57.12.37		Has completed the assignment.		
	WG Transportation Issues Guide		Document in review/balloting. Will meet in the spring.		
3:15 pm - 4:30 pm	TF Semiconductor Rectifier Transformers C57.18.10	PCS	S. Kennedy	35 MX	Johnston
3:15 pm - 4:30 pm	WG Terminal Markings C57.12.70	Stds	S. Shull	50 MX	Varley
3:15 pm - 4:30 pm	TF Transformer Efficiency and Loss Evaluation (DOE Activity)	Dist	P. Hopkinson	70 MX	Tom Thomson
3:15 pm - 4:30 pm >	WG Transformer Paralleling Guide	Power	T. Jauch	80 MX S3	Jackson/Carmich.
3:15 pm - 4:30 pm	WG Revision to Gas Guide C57.104 (continues into Wednesday morning)	IF	R. Ladroga	120 MX S3	Toronto II
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	150 MX S3	Toronto III
4:30 pm - 4:45 pm	<i>Break (beverages only)</i>			Toronto Foyer	
4:45 pm - 6:00 pm	"Panel Q&A Session". Sponsored by Administrative SC. ** -- See session flyer for more information.			270 MX S3	Toronto II / III
6:30 pm - 10:30 pm	<b>Technical Tour:</b> Moloney Electric Toronto Facility (distribution pole & pa-mount, small power & submersibles) -- Restricted attendance; by invitation only (Moloney Electric will send invitations separately). -- Bus will depart the Hilton at 6:30 pm and return by 10:30 pm. Dinner will be served at the facility. -- For more details, contact Lyn Fernandes at +416.534.9226 x2342 or <lfernandes@moloneytx.com>.				

### **Wednesday, October 27 -- Wednesday Breaks Sponsored by Siemens \*\*\***

No Meeting Registration, No Technical Tours, No Spouse/Companion Tour					
7:00 am - 6:00 pm	Internet Cafe'			12 CONF	Casson
7:00 am - 8:00 am	Breakfast - Attendees (no spouses/companions please)			200 RT (8/tbl)	Toronto I
8:00 am - <u>9:30 am</u>	Breakfast - Spouses/Companions (no meeting attendees please)			72 RT (8/tbl)	Governor General
7:00 am - 7:45 am	<b>SC Meetings Planning</b> -- breakfast buffet in room	Meetings	G. Anderson	35 MX	Johnston
8:00 am - 9:15 am	EL&P Delegation (Users only meeting)	++	S. Shull	80 MX S3	Jackson/Carmich.
8:00 am - <u>10:45 am</u>	<b>SC Instrument Transformers</b>	IT	J. Smith	35 MX	Johnston
8:00 am - 9:15 am	<b>SC Insulation Life</b>	IL	B. Forsyth	200 MX S3	Toronto II / III
9:15 am - 9:30 am	<i>Break (beverages only)</i>			Toronto Foyer	
> 9:30 am - 10:45 am	WG Revision to Gas Guide C57.104 (continued from Tuesday afternoon)	IF	R. Ladroga	70 MX	Tom Thomson
9:30 am - 10:45 am	<b>SC Audible Sound &amp; Vibration</b>	ASV	J. Puri	50 MX	Varley
9:30 am - 10:45 am	<b>SC Bushings</b>	Bush	F. Elliott	80 MX S3	Jackson/Carmich.
9:30 am - 10:45 am	<b>SC Distribution Transformers</b>	Dist	S. Shull	200 MX S3	Toronto II / III
10:45 am - 11:00 am	<i>Break (beverages only)</i>			Toronto Foyer	
11:00 am - 12:15 pm	<b>SC UG Transf. &amp; Network Protectors</b>	UTNP	C. Niemann	80 MX S3	Jackson/Carmich.
11:00 am - 12:15 pm	<b>SC Dielectric Tests</b>	DiTests	L. Wagenaar	200 MX S3	Toronto II / III
12:15 pm - 1:30 pm	Lunch (on your own)				

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

\*\*\* Contact Joe Watson (joe\_watson@ieee.org) if you are interested in sponsoring a coffee-break at a future meeting.

## 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 (special set-up)  
S2 = stand mic in front only; S3 = one stand mic in front & stand mic(s) at mid-room  
table)

CL -- classroom seating (w/head table for 2)  
TH -- theater seating (with head table for 2)  
RT -- multiple roundtables  
US -- U-shape table  
MX -- mixture classroom & theater (w/head

<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>
<b>Wednesday, October 27 (continued)</b>					
1:30 pm - 2:45 pm	<b>SC Dry Type</b>	Dry	C. Johnson	70 MX	Tom Thomson
1:30 pm - 2:45 pm	<b>SC Power Transformers</b>	Power	T. Lundquist	200 MX S3	Toronto II / III
2:45 pm - 3:00 pm	<i>Break (beverages and treats)</i>			Toronto Foyer	
3:00 pm - 4:15 pm	<b>SC Insulating Fluids</b>	IF	S. McNelly	80 MX S3	Jackson/Carmich.
3:00 pm - 4:15 pm	<b>SC Performance Characteristics</b>	PCS	S. Antosz	200 MX S3	Toronto II / III
4:15 pm - 4:30 pm	<i>Break (beverages only)</i>			Toronto Foyer	
4:30 pm - 5:30 pm	<b>SC Transformer Standards</b>	Stds	B. Bartley	200 MX S3	Toronto II / III
6:00 pm - 10:30 pm	<u>Dinner Social</u> : Ontario Science Centre with IMAX. Advance registration is necessary. -- Buses begin boarding at 5:30 pm. The last bus departs at 6:00 pm. All buses will return before 10:30 pm. -- Paper tickets will not be provided. Admission will be verified with a registration list as you board the bus.				

## Thursday, October 28

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)	Toronto I
8:00 am - <u>9:30 am</u>	Breakfast - Spouses/Companions (no meeting attendees please)			64 RT(8/tbl)	Governor General
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	Toronto II / III
9:45 am - 10:00 am	<i>Break (beverages only)</i>			Toronto Foyer	
> 10:00 am - 11:30 am	General Session, Transformers Committee		E. Smith	250 CL S1 50 TH	Toronto II / III
12:00 pm - 4:45 pm	<u>Technical Tour</u> : Trench Bushing Facility. -- Bus will depart the Hilton at 12:00 pm and return before 4:45 pm. Box dinner provided on the bus. -- Restricted attendance; by invitation only (Trench will send invitations separately). -- For more details, contact Doris Elovaara at +416.298.4477 x232 or <doris.elovaara@trench-group.com>.				
1:00 pm - 5:00 pm	Joint WG HVDC Bushings IEC/IEEE 65700-19-03	++	J. Graham/ L. Recksiedler	20 CL	Tom Thomson

## Friday, October 29

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

## FUTURE COMMITTEE MEETINGS

SPRING 2011 - April 10-14; San Diego, California USA. Hosted by Rob Mayer and San Diego Gas & Electric

Fall 2011 - date and location to be determined

**Hilton Downtown Toronto Hotel**  
**145 Richmond Street West; Toronto, Ontario M5H 2L2 CANADA**  
**+416.869.3456**

**Note: All meetings will be on the Convention Level**  
**(one level below the lobby by escalator; or the "C" button in the elevators)**

**CONVENTION LEVEL**

