

TRANSFORMERS COMMITTEE



February 4, 2012

Dear Committee Members and Guests:

You and your companion are cordially invited to attend the upcoming Spring 2012 Meeting of the IEEE/PES Transformers Committee to be held **March 11-15 in Nashville, Tennessee**. It is our distinct honor and pleasure, and the desire of all of us at Baron USA to be your host for this event.

Our meeting will be at the **Renaissance Nashville Hotel** (611 Commerce Street). This hotel is ideally located to take advantage of all that Downtown Nashville has to offer. It is close to the center of Nashville's world famous music, dining, and entertainment area of Lower Broadway and 2nd Avenue. While our company, **Baron USA**, is located 80 miles to the east in the town of Cookeville, Tennessee, we do enjoy coming into the "Big City".

CHANGE IN MEETING FORMAT. Note that at this meeting, we will revise our weekly agenda slightly. One of the biggest changes is dividing our Thursday General Session into two parts. The first part will be on Monday morning, reviewing new business and hot topics for the upcoming week. The second part on Thursday morning will briefly summarize what happened during the week. Additionally, our two technical presentations will be moved to Thursday morning. We hope you will find this new format even more productive.

<u>HOTEL INFORMATION</u>: The discounted group rate for standard guest rooms at the Renaissance Hotel is US\$149/night (single/double), including complimentary wireless Internet in the guest rooms. Visit the Committee's website for a link to registration, or call **+1.615.255.8400** or toll-free at **1.800.327.6618**. Mention "IEEE Transformers" to receive the group rate. The cut-off date for the group rate is February 24, but we expect the hotel to sell-out before then.

<u>GETTING THERE</u>: Nashville International Airport is located approximately 8 miles east of downtown. The Airport code is "BNA". The hotel does not provide shuttle service. Alternate transportation: Gray Line Downtown Airport Express; fee: \$16 (one-way, scheduled). Estimated taxi fare: \$24.00 (one way). Parking in garage: \$4 to \$8 daily (the cheapest place to park in downtown, but no in-out privileges). Valet parking at the hotel is \$29.50/day, with in-out privileges.

REGISTRATION: Register on-line at <u>www.transformerscommittee.org</u> for tours, social events, and meeting registration. Register by February 24 to receive the \$50 early registration discount. The on-line registration system will be disabled on March 7 to print name badges and to finalize counts. Note that the cost to walk-up register at the meeting is substantially higher than for registering on-line in advance.

<u>WEATHER</u>: Can be unpredictable this time of the year, but daytime highs average 60°F (16°C), and night time lows average 38°F (3°C). This winter has been very mild so please check the forecast closer to meeting time. Dress at the meeting is business casual.

<u>TIME CHANGE</u>: Daylight Savings Time begins Sunday, March 11, at 2:00 am. Move your clocks ahead one hour before retiring Saturday night.

SATURDAY EARLY-BIRD EVENT: Dinner and dancing at the World Famous Wild Horse Saloon. See the Flyer on the website for details. Register for this event by February 24.

SUNDAY EVENING RECEPTION: Baron USA is proud to host this renewal of friendships and formation of new acquaintances. A cash-bar and complimentary hors d'oeuvres will be provided. Indicate your intention to attend this event during the on-line registration process.

<u>TUESDAY LUNCHEON</u>: Ms. Carla Nelson, Senior Engineer from Nashville Electric Service (NES) will discuss the impact of electric vehicles on the grid and how NES is preparing for it. Additionally, there will be a special presentation of the 2012 IEEE Herman Halperin Electric Transmission and Distribution Award to our friend, **Dr. Michel Duval**. Join us for this interesting and timely technical presentation AND join Dr. Duval as he receives this prestigious award.

<u>WEDNESDAY EVENING RECEPTION</u>: We will have exclusive use of the **Country Music Hall of Fame** to discover why Nashville is called "**Music City**". During our visit, we can browse the hundreds of exhibits and enjoy a sit-down dinner with musical entertainment.

<u>SPOUSE/COMPANION TOURS</u>. Join us on Monday for a tour of two of Tennessee's most stately mansions. Get an idea of how the "to-do" in the South lived in the late 1800's. On Tuesday, get a rare glimpse to what happens behind the scenes of country music's most famous show, the **Grand Ole Opry**. We will also enjoy shopping at the **Gaylord Opryland Resort**, and a guided tour of the world famous **Ryman Auditorium**, once home of the Grand Ole Opry.

TECHNICAL TOURS: NES will host a guided tour of their new (and very unique) Peabody Gas-Insulated Substation, serving the Music City Center.

NASHVILLE PLACES. There are so many great spots in Nashville -- some just blocks from the hotel, others no more than a short cab ride away -- that we are sure you will have no trouble finding your own favorite spots. Here is a good place to look to get started: www.nashvillescene.com.

ADDITIONAL MEETING INFORMATION. Along with this invitation letter, additional meeting information can be downloaded from the Committee's website: www.transformerscommittee.org.

- Meeting Registration Form. This is good guide to review fees before you begin the on-line registration process. Note that as of 2012, on-line registration with a credit card is the primary method of payment. Contact us at transformers@ieee.org if another form of payment is desired.
- Detailed Meeting Schedule & General Session Agenda. If there are any noteworthy changes, an updated schedule will be posted on the Committee's website a few days prior to the meeting.
- Other Informational Flyers, including those for the Tuesday Luncheon, the Saturday Early-Bird Event, the Wednesday Social, Spouse/Companion Tours, Technical Tours, and Technical Presentations (flyers for the Technical Presentations will be added to the website soon).

We at Baron USA are committed to making your visit to **Music City** a memorable one.

Ya'll come and see us, Y'hear!



Derek & Diana Baranowski Spring 2012 Meeting Host Baron USA, Inc. www.baronusa.com

IEEE/PES TRANSFORMERS COMMITTEE

Spring 2012 Meeting; Nashville, Tennessee USA

-- Meeting Registration Summary and Fees --

As of 2012, on-line registration with a credit card is the primary method of payment.

Contact the Committee at transformers@ieee.org if an alternate form of payment is desired.

NOTES

Thursday Afternoon, NES Substation

Register on-line with credit card at www.transformerscommittee.org (go to "Next Meeting" page).

Each individual must register for meeting (with fees) to attend the Sunday Reception or any social event or tour.

Print a receipt at the end of the registration process. Receipts will not be provided at the meeting.

Refund provided only if the request is received by Wednesday, March 7. Valid once confirmation email is received.

There is a US\$25.00 service charge for a refund of entire registration; US\$10 for a partial refund.

US Tax ID No. 13-1656633, Canadian Business No. 12563 4188, Euro Tax Registration No. EU826000081

REGISTRATION FEES all fees in US\$ dollars all fees stated are "per person"	On or Before Feb 24	After Feb 24, on or before March 7	On-site, at Meeting
MEETING REGISTRATION	1	•	
Attendee, IEEE member (will be verified with IEEE)	\$225	\$275	\$375
Attendee, not IEEE member	\$250	\$300	\$400
Attendee, IEEE Life or Committee Emeritus (will be verified)	\$50	\$100	\$200
Spouse or Companion, and children age 12 and over	\$75	\$125	\$225
Attendee Registration Fee Includes: Entry into Meeting Area, Sund Spouse/Companion Registration Fee Includes: Sunday Reception A Companion is a "significant other", boy/girlfriend, who is attending technical meetings, etc.). Spouses/companions & children (age 12 above fees - to attend any tour or social event.	, 4 breakfasts (M, T g for <u>non-commerci</u>	, W, Th) al reasons, i.e., not	attending the
RECEPTION & LUNCHEONS			
Sunday Evening Welcome Reception indicate your plan to attend the reception when you register	cost included in meeting registration fee		
Monday Standards Development Luncheon all SC,WG,TF leaders are encouraged to attend	\$20	\$20	\$20
Tuesday Speaker/Awards Luncheon Speaker: Ms. Carla Nelson, Nashville Electric Service indicate a meal selection: beef, chicken, or vegetarian	\$30	\$30	\$30
SOCIAL EVENTS			
Saturday Evening Early-Bird Event: Wild Horse Saloon entry pass & dinner, transportation not included	\$45	last day to register for this event is February 24	
Wednesday Dinner Social: Country Music Hall of Fame museum pass, dinner and transportation	\$85	\$85	\$85
SPOUSE/COMPANION TOURS			•
Monday, Mansions of the South	\$85	\$85	
Tuesday, Nashville: Backstage Pass	\$85	\$85	
TECHNICAL TOURS		•	
Sunday Morning, NES Substation	\$0	\$0	

\$0

\$0

\$0

IEEE/PES TRANSFORMERS COMMITTEE

www.transformerscommittee.org
Spring 2012 Meeting; March 11-15
Hosted by Baron USA, Inc.
Renaissance Nashville Hotel; Nashville, Tennessee USA

NOTES: See Page 4 for a key to abbreviations. A vertical line in the left margin indicates a noteworthy revision since last revision.

DATE/TIME Saturday, March 10	ACTIVITY	SUB- COM	ACTIVITY CHAIR	ROOM <u>CAP/ARR/AV</u>	MEETING ROOM	
	No Meeting Registration, No Transformers	Committe	e Meetings			
7:00 pm until ???	<u>Early-Bird Event</u> : "Dinner, Entertainment and Dancing at the Wildhorse Saloon" (www.wildhorsesaloon.com). We are purchasing a few discounted group tickets (includes only entry pass & BBQ dinner). Indicate your desire to attend while registering on-line for the Committee Meeting. Transportation on your own (by local taxi, etc.). <u>Mention our group name at the front door of the Wild Horse</u> . Limited attendance! Deadline to register on-line for this event is February 24.					
Sunday, March 11						
10:00 am- 12:00 pm	Technical Tour 1A: "Walking Tour of NES Indicate your desire to attend while regis Meet in Renaissance Hotel lobby at 9:48 Lunch on your own. Weather permitting	stering on-l 5 pm. Dep	ine for the Commi	ttee Meeting. Will:	sell-out early!	
1:00 pm - <u>5:30 pm</u>	Meeting Registration				Ballroom Foyer	
2:00 pm - 3:30 pm	EL&P Delegation End-users only please	++	J. Murphy	40 TH	Fisk 1 (2F)	
2:00 pm - 5:30 pm	Administrative SC Closed meeting, by invitation only	Admin.	B. Chiu	28 US (w/snack buffet)	Ryman (3F)	
2:00 pm - 5:30 pm	NEMA Transformers Closed meeting, by invitation only	++	C. Drexler	26 US (w/beverages)	Fisk 2 (2F)	
6:00 pm - 8:00 pm	Welcome Reception			450 Reception	Grand Ballroom	
7:00 am - <u>4:00 pm</u>	Monday Breaks Sponsored by OMICI Meeting Registration	RON elec	tronics Corp. U	SA **	Ballroom Foyer	
7:00 am - 6:00 pm	Internet Cafe'			10 BR	Belmont 1 (3F)	
<u>7:00 am</u> - 7:50 am	Newcomers Orientation (arrive early!) Newcomers & Guests are encouraged to Get food in West Ballroom and carry to		D. Platts	80 CL 120 TH	Center Ballroom (with opening in airwall to East)	
7:00 am - 7:50 am	Distribution SC Leaders Coordination Closed breakfast meeting, by invitation of	only	S. Shull	16 CONF	private room in hotel restaurant	
7:00 am - 8:00 am	Breakfast - Attendees (no spouses/compa	nions plea	se)	270 RT (9/tbl)	East Ballroom	
8:00 am - 9:00 am	Breakfast - Spouses/Companions (no med	eting attend	lees please)	80 RT (8/tbl)	Bridge Lounge (Level Three)	
9:15 am - 3:30 pm	Spouses/Companions Tour: "Mansions of Advance registration required. Buses do					
8:00 am - 9:30 am >	General Session, Transformers Committee See separate document for meeting age Session continued on Thursday All attendees are encouraged to attend	enda	B. Chiu	250 MX S1 250 MX S1	Center Ballroom West Ballroom	
	(attendance will be taken as eligibility for	r Committe	e membership)			
9:30 am - 9:45 am	Break (beverages only)			Ballroom Foyer		

^{**} Contact Joe Watson (joe_watson@ieee.org) if you are interested in sponsoring a coffee-break at a future meeting.

DATE/TIME	ACTIVITY	SUB- COM	ACTIVITY CHAIR	ROOM CAP/ARR/AV	MEETING ROOM
Monday, March 12 (c		<u> </u>	<u></u>	<u> </u>	<u></u>
9:45 am - 11:00 am	TF Winding Temp. Indicators	IL	P. McClure	80 MX	Belmont 2&3 (3F)
9:45 am - 11:00 am	WG 3-ph UG Dist. Transf. C57.12.24	UTNP	G. Termini	80 MX	Ryman (3F)
9:45 am - 11:00 am	WG Distr. Substation Transf. C57.12.36	Dist	J. Murphy	120 MX	Fisk (2F)
9:45 am - 11:00 am	TF External Dielectric Clearances	DiTests	E. Davis	150 MX S3	Music City (2F)
9:45 am - 11:00 am	WG Tertiary/Stabiliz. Windings PC57.158	PCS	E. Betancourt	250 MX S3	Center Ballroom
9:45 am - 11:00 am	WG Failure Analysis & Report. C57.125	Power	W. Binder	250 MX S3	West Ballroom
11:00 am – 11:15 am	Break (beverages only)		Ballroom Foyer		
	TF Furan Tests	Will not n	neet. Work is con	nplete.	
11:15 am - 12:30 pm	WG Sealed Dry-Type Power Transformer C57.12.52	Dry	S. Kennedy	80 MX	Belmont 2&3 (3F)
11:15 am - 12:30 pm	WG Liquid-immersed Secondary Network Transformers C57.12.40	UTNP	B. Klaponski	80 MX	Ryman (3F)
11:15 am - 12:30 pm	WG Overhead Distr. Transf. C57.12.20	Dist	A. Traut	120 MX	Fisk (2F)
11:15 am - 12:30 pm	TF Moisture in Solid Insulation	IL	J. Sim	150 MX S3	Music City (2F)
11:15 am - 12:30 pm	WG PCS Rev. to Test Code C57.12.90	PCS	M. Perkins	250 MX S3	Center Ballroom
11:15 am - 12:30 pm	WG Installation of Power Transf. C57.93	Power	M. Lau	250 MX S3	West Ballroom
12:30 pm - 1:30 pm	Lunch Meeting: Standards Development F		B. Bartley	140 (7/tbl)	East Ballroom
	 Presentation/Discussion: "Changes in the control of the control o	NG/TF lea	ders are <u>highly en</u>	couraged to attend	
1:45 pm - 3:00 pm	WG Dry-Type Gen. Require. C57.12.01	Dry	T. Holdway	80 MX	Belmont 2&3 (3F)
1:45 pm - 3:00 pm	WG Standard Require for Secondary Network Protectors C57.12.44	UTNP	B. Wimmer	80 MX	Ryman (3F)
1:45 pm - 3:00 pm	WG 1-ph Padmount Distribution Transformers C57.12.38 (12.21 & 12.25)	Dist	A. Ghafourian	120 MX	Fisk (2F)
1:45 pm - 3:00 pm	WG Frequency Response Analysis (FRA) Guide PC57.149	PCS	C. Sweetser	150 MX S3	Music City (2F)
1:45 pm - 3:00 pm	TF Audible Sound Revision to Test Code	PCS	R. Girgis	250 MX S3	Center Ballroom
1:45 pm - 3:00 pm	WG Tank Rupture & Mitigation PC57.156	Power	P. Zhao	250 MX S3	West Ballroom
3:00 pm - 3:15 am	Break (beverages only)			Ballroom Foyer	
	TF Particle Count Limits in Mineral Oil	Will not n	neet.		
	WG Tap Changer Performance C57.131	Will not n	neet. Document a	waiting REVCOM	approval.
3:15 pm - 4:30 pm	SC HVDC Converter Transformers and Smoothing Reactors	HVDC	M. Sharp	80 MX	Belmont 2&3 (3F)
3:15 pm - 4:30 pm	WG High Temp. Transformers PC57.154	IL	R. Marek	80 MX	Ryman (3F)
3:15 pm - 4:30 pm	WG 3-ph Padmount Distribution Transformers C57.12.34	Dist	R. Stahara	120 MX	Fisk (2F)
3:15 pm - 4:30 pm	WG Natural Ester-Based Fluids C57.147	IF	P. McShane	150 MX S3	Music City (2F)
3:15 pm - 4:30 pm	TF Dielectric Frequency Response	PCS	G. Frimpong	250 MX S3	Center Ballroom
3:15 pm - 4:30 pm	TBD			250 MX S3	West Ballroom
4:30 pm - 4:45 pm	Break (beverages <u>and treats</u>)			Ballroom Foyer	
	WG Dry-Type Test Code C57.12.91			•	at the Fall Meeting.
4:45 pm - 6:00 pm	WG Dry-Type O&M Guide C57.94	Dry	D. Stankes	80 MX	Belmont 2&3 (3F)
4:45 pm - 6:00 pm	TF PD in Bushings and PTs/CTs	DiTests	T. Hochanh	80 MX	Ryman (3F)
4:45 pm - 6:00 pm	WG Tank Pressure Coordinat. C57.12.39	Dist	C. Gaytan	120 MX	Fisk (2F)
4:45 pm - 6:00 pm	WG Oil Accept & Maint. Guide C57.106	IF	B. Rasor	150 MX S3	Music City (2F)
4:45 pm - 6:00 pm	WG PCS Revisions to C57.12.00	PCS	S. Snyder	250 MX S3	Center Ballroom
4:45 pm - 6:00 pm	WG Transformers Directly Connected to Generators PC57.116	Power	G. Hoffman	250 MX S3	West Ballroom

DATE/TIME	ACTIVITY	SUB- COM	ACTIVITY CHAIR	ROOM CAP/ARR/AV	MEETING ROOM
Tuesday, March 13	Tuesday Breaks Sponsored by Niaga	ara Trans	former Corp. **		
7:00 am - <u>12:00 pm</u>	Meeting Registration				Ballroom Foyer
7:00 am - 6:00 pm	Internet Cafe'			10 BR	Belmont 1 (3F)
7:00 am - 8:00 am	Breakfast - Attendees (no spouses/compa	nions pleas	se)	270 RT (9/tbl)	East Ballroom
8:00 am - 9:00 am	Breakfast - Spouses/Companions (no mee	eting attend	lees please)	80 RT (8/tbl)	Bridge Lounge
9:15 am - 4:30 pm	Spouses/Companions Tour: "Nashville Ba Advance registration required. Buses de	ackstage P	ass". Includes lun	ch at Ellendale's F	Restaurant.
	WG Transportation Issues PC57.150	Will not r	neet. Document in	final balloting.	
8:00 am - 9:15 am	WG Req. for Instrument Transf. C57.13	IT	R. McTaggart	80 MX	Belmont 2&3 (3F)
8:00 am - 9:15 am	TF DPV Grid Transformers	PCS	H. Shertukde	80 MX	Ryman (3F)
8:00 am - 9:15 am	WG Enclosure Integrity C57.12.28, C57.12.29, C57.12.31, C57.12.32	Dist	R. Olen	120 MX	Fisk (2F)
8:00 am - 9:15 am	WG Oil Reclamation Guide PC57.637	IF	J. Thompson	150 MX S3	Music City (2F)
8:00 am - 9:15 am	WG PC57.152 Field Test Guide	Stds	J. Verner	250 MX S3	Center Ballroom
8:00 am - 9:15 am	WG Functional Life Tests, De-energized Tap Changers (DETC) PC57.157	Power	P. Hopkinson	250 MX S3	West Ballroom
9:15 am - 9:30 am	Break (beverages only)			Ballroom Foyer	
	WG Revision to Loading Guide C57.91	Will not r	neet. Work is com	plete.	
	WG Impulse Test Guide C57.98 (Power)	Will not r	neet.		
9:30 am - 10:45 am	TBD			80 MX	Belmont 2&3 (3F)
9:30 am - 10:45 am	WG Std Require. for Bushings C57.19.01	Bush	A. Del Rio	80 MX	Ryman (3F)
9:30 am - 10:45 am	WG Bar Coding for Distribution Transformers C57.12.35	Dist	L. Matthews	120 MX	Fisk (2F)
9:30 am - 10:45 am	WG DGA Natural Ester Fluids PC57.155	IF	P. Boman	150 MX S3	Music City (2F)
9:30 am - 10:45 am	TBD			250 MX S3	Center Ballroom
9:30 am - 10:45 am	WG Wind Power Transf. PC57.12.16	PCS	D. Buckmaster	250 MX S3	West Ballroom
10:45 am - 11:00 am	Break (beverages only)			Ballroom Foyer	
11:00 am - 12:15 pm	WG Milli-amp Current Transf. C57.13.7	IT	H. Alton	80 MX	Belmont 2&3 (3F)
11:00 am - 12:15 pm	WG Bushing Applicat. Guide C57.19.100	Bush	T. Spitzer	80 MX	Ryman (3F)
11:00 am - 12:15 pm	WG Impulse Tests C57.138 (Distribution)	DiTests	J. Crotty	120 MX	Fisk (2F)
11:00 am - 12:15 pm	WG Guide for DGA in LTCs C57.139	IF	D. Wallach	150 MX S3	Music City (2F)
11:00 am - 12:15 pm	WG Loss Evaluation Guide C57.120	PCS	A. Traut	250 MX S3	Center Ballroom
11:00 am - 12:15 pm	WG Temperature Rise Test Procedures in Section 11 of C57.12.90	IL	P. Powell	250 MX S3	West Ballroom
12:15 pm - 1:30 pm	Speaker Luncheon & Awards Presentation Guest Speaker: Ms. Carla Nelson, Nashvi Topic: "Planning and Preparing for Electric also Special Awards Presentation: 2012 Advance registration is necessary. Paper	ille Electric Transport IEEE Her	ation" man Halperin Awa		
	WG Dry-Type Loading Guide PC57.96	Moved to	3:15 pm.		
1:45 pm - 3:00 pm				80 MX	Belmont 2&3 (3F)
1:45 pm - 3:00 pm	WG GSU Bushing Standardization	Bush	TBD	80 MX	Ryman (3F)
1:45 pm - 3:00 pm	WG Revision to Low Frequency Tests	DiTests	B. Poulin	120 MX	Fisk (2F)
1:45 pm - 3:00 pm	WG DGA Factory Temperature Rise Tests PC57.130	IF	J. Thompson	150 MX S3	Music City (2F)
1:45 pm - 3:00 pm	WG Life Extension C57.140	Power	R. James	250 MX S3	Center Ballroom
1:45 pm - 3:00 pm	TF Transformer Efficiency and Loss Evaluation (DOE Activity)	Dist	P. Hopkinson	250 MX S3	West Ballroom
3:00 pm - 3:15 pm	Break (beverages and treats)			Ballroom Foyer	

^{**} 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

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

TH -- theater seating (w/head table for 2)

RT -- multiple roundtables

US -- U-shape table

MX -- mix classroom & theater (w/head table)

DATE/TIME	ACTIVITY	SUB- COM	ACTIVITY CHAIR	ROOM CAP/ARR/AV	MEETING ROOM
Tuesday, March 13	(continued)				
	WG Terminal Markings C57.12.70	Will not r	neet. Work comp	lete.	
3:15 pm - 4:30 pm	WG Dry-Type Loading Guide PC57.96	Dry	R. Marak	80 MX	Belmont 2&3 (3F)
3:15 pm - 4:30 pm	WG Neutral Grounding Devices PC57.32	PCS	S. Kennedy	80 MX	Ryman (3F)
3:15 pm - 4:30 pm	TBD			120 MX	Fisk (2F)
3:15 pm - 4:30 pm	WG Revision to Gas Guide C57.104	IF	R. Ladroga	150 MX S3	Music City (2F)
3:15 pm - 4:30 pm	WG Transformer Paralleling Guide	Power	T. Jauch	250 MX S3	Center Ballroom
3:15 pm - 4:30 pm	WG Revisions to Impulse Test Sections of C57.12.00 and C57.12.90	DiTests	P. Riffon	250 MX S3	West Ballroom
4:30 pm - 4:45 pm	Break (beverages only)			Ballroom Foyer	
4:45 pm - 6:00 pm	TBD			80 MX	Belmont 2&3 (3F)
4:45 pm - 6:00 pm	TBD			80 MX	Ryman (3F)
4:45 pm - 6:00 pm	WG Test Data Reporting C57.12.37	Dist	J. Crotty	120 MX	Fisk (2F)
4:45 pm - 6:00 pm	TF Moisture in Oil	IF	B. Rasor	150 MX S3	Music City (2F)
4:45 pm - 6:00 pm	TBD			250 MX S3	Center Ballroom
4:45 pm - 6:00 pm	IEC TC-14 Technical Advisory Group (all interested individuals welcome)	++	P. Hopkinson	250 MX S3	West Ballroom

No technical tours or social events planned this evening.

Wednesday, March 14 -- Wednesday Breaks Sponsored by Tulstar Products, Inc. ***

	No Meeting Registration, No Technical Tours, No Spouse/Companion Tour				
7:00 am - 6:00 pm	Internet Cafe'		10 BR	Belmont 1 (3F)	
7:00 am - 8:00 am	Breakfast - Attendees (no spouses/compa	anions plea	se)	270 RT (9/tbl)	East Ballroom
8:00 am - <u>9:30 am</u>	Breakfast - Spouses/Companions (no me	eting attend	lees please)	80 RT (8/tbl)	Bridge Lounge
7:00 am - 7:50 am	SC Meetings Planning (arrive early, food buffet in room)	Meetings	G. Anderson	24 CL	Belmont 2 (3F)
8:00 am - 9:15 am	EL&P Delegation (Users only meeting)	moved to	Sunday afternoo	n	
8:00 am - 9:15 am	SC Instrument Transformers	IT	R. McTaggart	100 MX S3	Music City (2F)
8:00 am - 9:15 am	SC Insulation Life	IL	B. Forsyth	300 MX S3	Center & West BR
9:15 am - 9:30 am	Break (beverages only)			Ballroom Foyer	_
9:30 am - 10:45 am	SC Bushings	Bush	P. Zhao	100 MX S3	Music City (2F)
9:30 am - 10:45 am	SC Distribution Transformers	Dist	S. Shull	300 MX S3	Center & West BR
10:45 am - 11:00 am	Break (beverages only)			Ballroom Foyer	
11:00 am - 12:15 pm	SC UG Transf. & Network Protectors	UTNP	C. Niemann	100 MX S3	Music City (2F)
11:00 am - 12:15 pm	SC Dielectric Tests	DiTests	L. Wagenaar	300 MX S3	Center & West BR
12:15 pm - 1:30 pm	Lunch (on your own)				

^{***} Contact Joe Watson (joe_watson@ieee.org) if you are interested in sponsoring a coffee-break at a future meeting.

		SUB-	ACTIVITY	ROOM	MEETING
DATE/TIME	<u>ACTIVITY</u>	<u>COM</u>	<u>CHAIR</u>	CAP/ARR/AV	<u>ROOM</u>
Wednesday, March	14 (continued)				
1:30 pm - 2:45 pm	SC Dry Type	Dry	C. Johnson	100 MX S3	Music City (2F)
1:30 pm - 2:45 pm	SC Power Transformers	Power	T. Lundquist	300 MX S3	Center & West BR
2:45 pm - 3:00 pm	Break (beverages and treats)			Ballroom Foyer	
3:00 pm - 4:15 pm	SC Insulating Fluids	IF	S. McNelly	100 MX S3	Music City (2F)
3:00 pm - 4:15 pm	SC Performance Characteristics	PCS	E. teNyenhuis	300 MX S3	Center & West BR
4:15 pm - 4:30 pm	Break (beverages only)			Ballroom Foyer	
4:30 pm - 5:45 pm	SC Transformer Standards	Stds	B. Bartley	300 MX S3	Center & West BR
6:30 pm - 10:00 pm	Dinner Social: "Country Music Hall of Far	me and Mus	seum". Advance r	egistration is neces	ssary.

- -- Museum opens at 6:30 pm. Dinner served at 8:00 pm. Browse exhibits before and after dinner.
- -- Buses begin shuttling from the Renaissance Hotel to the museum at 6:15 pm (or optional 10 minute walk).
- -- Last bus departs the Renaissance Hotel at 7:00 pm.
- -- Buses begin shuttling back to hotel at 9:00 pm, and continue shuttling until 10:00 pm (or optional walk).
- -- Paper tickets will not be provided. Admission verified with a registration list as you enter the museum.

Thursday, March 15

	No Meeting Registration, No Spouses/Companions Tours, No Interne	t Cafe'	
7:00 am - 8:00 am	Breakfast - Attendees (no spouses/companions please)	270 RT (9/tbl)	East Ballroom
8:00 am - <u>9:30 am</u>	Breakfast - Spouses/Companions (no meeting attendees please)	72 RT (8/tbl)	Bridge Lounge
8:00 am - 9:15 am	Technical Presentation: "Geo-magnetically Induced Current (GIC): Effects on Power Transformers and the Power System; Monitoring, and Potential Mitigation", by Bernabeu, Fugate, Girgis and Koza See 2-page abstract flyer on website	350 MX S1	Center and West Ballrooms
~ 9:15 am - 9:30 am	Break (beverages only)	Ballroom Foyer	
> 9:30 am - 10:45 am	Technical Presentation (continued)	350 MX S1	Center and West Ballrooms
10:45 am - 11:00 am	Break (beverages only)	Ballroom Foyer	
> 11:00 am - 12:30 pm	General Session, Transformers Committee (Part 2) B. Chiu All attendees are encouraged to attend See separate document for meeting agenda	350 MX S1	Center and West Ballrooms
2:00 pm - 4:00 pm	Technical Tour 1B: "Walking Tour of NES Music Center Substation" (Indicate your desire to attend while registering on-line for the Comm Meet in Renaissance Hotel lobby at 1:45 pm. Depart at 2:00 pm, we Lunch on your own. Weather permitting.	nittee Meeting.	

Friday, March 16

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

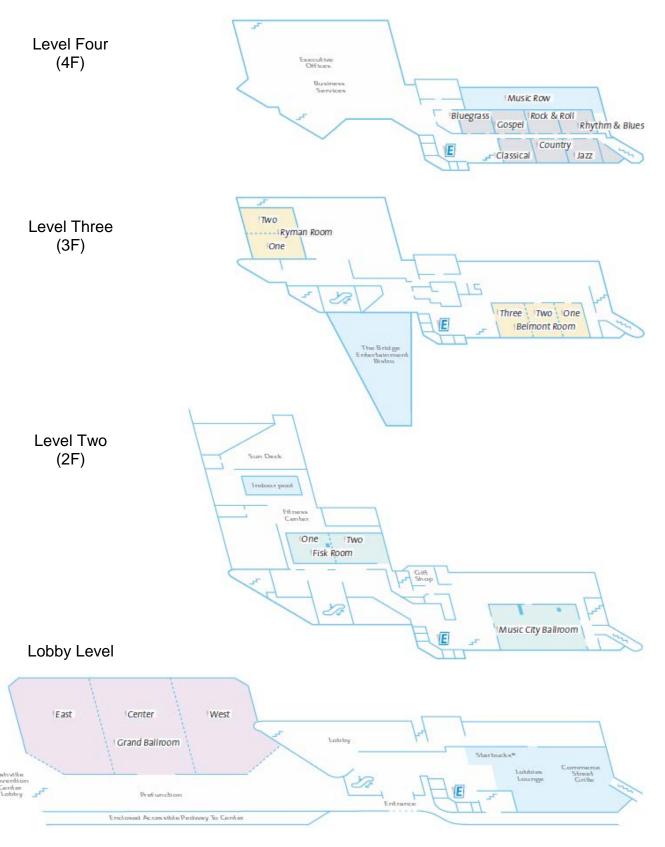
FUTURE COMMITTEE MEETINGS

<u>Fall 2012</u> - October 21-25; Milwaukee, Wisconsin USA. Hosted by Waukesha Electric Systems <u>Spring 2013</u> - March 17-21; Munich Germany. Hosted by Maschinenfabrik Reinhausen Fall 2013 - St. Louis, Missouri USA. Hosted by H-J Enterprises

^{***} Contact Tom Prevost (tprevost@ieee.org) if you are interested in making a technical presentation at a future meeting.

Renaissance Nashville Hotel

611 Commerce Street; Nashville, Tennessee 37203 (615) 255-8400



IEEE/PES TRANSFORMERS COMMITTEE

Spring 2012 Meeting; Nashville, Tennessee USA

Secretary: Stephen Antosz

Treasurer: Greg Anderson

General Session, Part 1 Monday, March 12; 8:00 am - 9:30 am -- Note: Attendance will be taken at this session, as eligibility for Committee membership 1. 2. 3. 4. Secretary's Report Stephen Antosz 5. Awards and Recognition Ed Smith 6. 7. 8. 9. New Business & Wrap-up Bill Chiu **General Session, Part 2** Thursday, March 15; 11:00 am - 12:30 pm 1. 2. Transformer StandardsBill Bartley 3. Meetings Subcommittee Greg Anderson 4. 5. Report from Technical Subcommittees (decisions made during the week) 5.1. Performance Characteristics Ed teNyenhuis 5.2. 5.3. 5.4. 5.5. 5.6. 5.7. 5.8. 5.9. 5.10. 5.11. Editor's ReportTBD 6. 7. Reports of Liaison Representatives 7.1. 7.2. IEC TC-14 Technical Advisor to USNC Phil Hopkinson 7.3. 8. New Business (continued from Monday) and Wrap-upBill Chiu

Chair: Bill Chiu

Vice Chair: Don Platts



Early-Bird Event Saturday, March 10



-- Wild Horse Saloon --

Put on your best pair of boots and come join us for an evening of dinner, dancing and fun at:

Nashville's #1 Dining and Entertainment Destination



Home to hot music and dancing, the WHS is rooted deep in Country music traditions. Housed in a three-level historic warehouse, it is a 66,000 square-feet (6,100 sq-m) live music and dance destination. It serves simultaneously as a restaurant, bar, concert site, dance venue and TV studio.

<u>Itinerary</u>

6:30-7:00 pm: Meet in hotel lobby to get your pass 7:00 pm: Depart hotel for the Wild Horse

It's a short 10-minute walk, or grab a taxi!

7:30 pm: Buffet dinner available

???: Return to the hotel on your own



Dinner Menu

Hickory Barbecue Pit

- · Wildhorse salad with buttermilk ranch and zesty Italian dressing
- Award winning hickory pit smoked pork shoulder
- Char-grilled citrus herb chicken breast
- Hoppin Johns' black eyed peas
- Red bliss potatoes roasted with Vidalia onions, red and green bell peppers
- Broccoli, zucchini and squash seasoned with an aromatic spice blend and butter
- Southern yeast rolls and corn biscuits
- Country Southern fruit cobbler
- Coffee & tea

NOTE: Last day to register on-line for this event is February 24!





Speaker/Awards Luncheon Tuesday, March 13; 12:15 pm



Guest Speaker: Carla Nelson, P.E.

A Senior Engineer with Nashville Electric Service's Design Engineering and Distribution Planning Department in Nashville Tennessee, Ms. Nelson is responsible for planning the electric distribution system within Nashville's inner loop and is project lead for electric transportation at NES. She holds a Bachelor of Electrical Engineering degree from Auburn University and a Master of Science degree from the University of Tennessee. She is a licensed professional engineer in the state of Tennessee.



Topic: Planning and Preparing for Electric Transportation

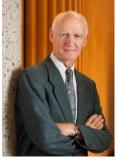
What happens when this replaces this?





It's not that simple!

- Indicate a meal selection when you register for the meeting (beef, chicken or vegetarian).
- Paper tickets will not be provided. Admission to the event and meal selection will be verified with a registration list at the door.



Dr. Michel Duval

With special presentation ...

... of the 2012 IEEE Herman Halperin Electric Transmission and Distribution Award to Dr. Michel Duval. The award recognizes Dr. Duval as an IEEE Life Fellow and Fellow of the Chemical Institute of Canada, for development and leadership in condition monitoring of high-voltage transformers and related equipment.



Spouse/Companion Tour Monday, March 12



-- Mansions of the South --

Begin the day with a tour of **Belle Meade Plantation**, the "Queen of the Tennessee Plantations". This fully restored Greek Revival mansion was completed in 1853. The grounds include a large carriage house, stable, log cabin, winery and other original buildings.



Next, we will go to the **Belmont Mansion** where lunch will be served in the Grand Salon, and from which the tour will begin



with a 20-minute history of the Mansion and its most famous owner, Nashville's premier socialite, Adelicia Acklen. An ornate Italianate design, the home features many of the original furnishings and includes marble fountains, cast-iron gazebos, and statuary which are still standing as evidence of ornate, formal gardens.

Both tours last approximately an hour in duration. They also offer extensive gift shops, which features an array of little indulgences from jewelry to merchandise.

Itinerary

9:15 am: Bus departs hotel for Driving City Tour

10:30 am: Arrive Belle Meade Plantation for tour & lunch

1:30 pm: Arrive Belmont Mansion for tour

2:30 pm: Depart to hotel

3:30 pm: Return to hotel (approx. time)



Lunch Menu

Blackberry Pulled BBQ Chicken

Sweet and Spicy Blackberry BBQ Sauce over Pulled Roasted Chicken, Baked Three Beans, Southern Cole Slaw, Corn Bread, and Banana Pudding with Fresh Whipped Cream, Water or Ice Tea.

A vegetarian option is also available. Indicate this or any special needs when you register for the meeting.

REGISTER EARLY! Attendance will be limited.





Spouse/Companion Tour Tuesday, March 13



-- Nashville: Backstage Pass --



No trip to Nashville would be complete without experiencing the phenomenon of the world famous **Grand Ole Opry**. You will get a rare glimpse of what happens behind the scenes of country music's most famous show as well as learn the fascinating story of the Grand Ole Opry. You will be guided through the backstage area of the Opry House as well as watch a video that gives some unique history of this famous establishment.

You will enjoy a stop at the **Gaylord Opryland Resort**, a must see in Nashville. A buffet lunch will be at the family owned

Ellendale's Restaurant, nestled in the original Purity Dairy farm house which was erected in 1885.

The next and final stop will be at the world famous **Ryman Auditorium**, one of Nashville's signature historical country music landmarks which was home to the Grand Ole Opry at one time. If the hallowed walls of the Ryman Auditorium could talk, the remarkable story they would tell is unmatched in entertainment history. It was during these its early years the Ryman became known as the "Carnegie Hall of the South". Today, the Ryman remains true to its diverse entertainment legacy, hosting concerts of all genres by a new generation of entertainers for a new generation of audiences.



Itinerary

9:15 am: Bus departs hotel for Grand Ole Opry

9:45 am: Begin Behind the Scenes Tour

10:45 am: Depart to Opryland Resort for Shopping

1:00 pm: Lunch at Ellendale's Restaurant 2:00 pm: Depart to Ryman Auditorium 4:30 pm: Return to hotel (approx. time)

Menu for Lunch at Ellendale's Restaurant

The buffet changes every week but there is always a pasta bar, hummus, salads, cold pastas and salads, two hot entree items, vegetables, starch, desserts and soup.

REGISTER EARLY! Attendance will be limited.





Wednesday Evening Dinner Social Wednesday, March 14



-- Country Music Hall of Fame and Museum --







The Country Music Hall of Fame and Museum has been the home of America's music since 1967. In keeping with the cultural significance of the music and the heroic achievements of those who form its membership, the Museum opened in a \$37 million landmark, new building in May 2001. The Museum presents the crown jewels of its vast collection to illustrate country music's story as told through the turns of two centuries. A treasure trove of historic country video clips and recorded music, dynamic exhibits and state-of-the-art design, regular menu of live performances and public programs. Stroll through the museum at your leisure before dinner and be entertained by local musicians during and after dinner.

Advance registration required. Register on-line when you register for the meeting.

Paper tickets will NOT be provided. Admission verified with a registration list as you enter the museum.

<u>Itinerary</u>

6:15 pm: Buses begin boarding at the Renaissance Hotel

Note: The museum is a 10-12 minute walk from the Renaissance Hotel. Feel free to walk!

6:30 pm: Museum opens. Browse exhibits before and after dinner.

8:00 pm: Dinner is served

9:00 pm: Buses begin shuttling back to hotel

(feel free to continue browsing exhibits)

10:00 pm: Last bus departs museum.

Feel free to walk back!

Dinner Menu

Oven-roasted chicken quarters, grilled molasses-glazed pork loin, Southern-style potato salad, sour cream mashed potatoes, turnip greens, fried "shoe peg" corn, cornbread and Southern-style biscuits, mixed berry cobbler, chocolate-banana bread pudding.

A cash-bar will be available. An additional vegetarian main dish will be offered at the event upon request.





Technical Tour Sunday Morning, March 11 &



Thursday Afternoon, March 15

-- Walking Tour: NES Peabody Substation --

When city developers began planning the construction of the Music City Center, they realized that one of Nashville Electric Service's three downtown substations would need to be relocated to make room for the new convention center. What the developers thought would be a simple project turned out to be much more than they had anticipated. NES reviewed the convention center authority's plan, and as Civil and Environmental Engineering Manager Wes Allen said, "Immediately we noticed something wrong." To move the entire facility, would require a substantially larger investment of time and money than had been budgeted. Since the entire downtown business district relies on NES' three central substations for power, relocating one of them would pose an enormous challenge in terms of maintaining a reliable, integrated downtown secondary network. Of the 60 substations located on the NES power grid, the new Peabody Substation is the only GIS system. Gas insulation is rare in the U.S. The Peabody Substation is the one of the only facilities of its type that will be completely enclosed when completed.



Itinerary - Sunday

9:45 am: Meet in Renaissance Hotel lobby

10:00 am: Depart for Substation

Easy 15-minute walk

12:00 pm: Return to hotel (approx. return time)

Itinerary - Thursday

1:45 pm: Meet in Renaissance Hotel lobby

2:00 pm: Depart for Substation

Easy 15-minute walk

4:00 pm: Return to hotel (approx. return time)

NES reserves the right to limit or cancel this tour due to unexpected emergency or operational concerns.

