



TRANSFORMERS COMMITTEE



September 3, 2015

Dear Committee Members and Guests:

You and your companion are cordially invited to attend the upcoming Fall 2015 Meeting of the IEEE/PES Transformers Committee, to be held November 1-5 in Memphis, Tennessee. This is our second meeting in Memphis, and we are looking forward to showing off what has changed, as well as having a productive meeting in Blues City!

Our meeting will be held at the historic Memphis Peabody Hotel, located at 149 Union Avenue. Conveniently located just blocks from Memphis attractions such as Beale Street and the National Civil Rights Museum, The Peabody is considered one of the finest downtown Memphis hotels and is home to the world-famous Peabody Ducks.

HOTEL INFORMATION: Discounted guestroom rate at the Peabody is US\$159, including complimentary internet in the guest rooms. Just mention "IEEE Transformers" to receive the group rate, or visit the Committee's website for a link to reserve a room. The cut-off date for this group rate is Friday, October 2, but we expect the hotel to sell-out before this date.

Discounted overnight self-parking is \$10 per night; valet parking is also available at an additional cost. Instead of renting a car, there are plenty of places within walking distance to explore, and transportation will be provided for off-site events. If you do rent a car or drive, the parking entrance is located off 2nd Street; use this address for your GPS device: "118 - 2nd Street South, Memphis, TN".

GETTING THERE: The Peabody Hotel is located about 15 minutes from Memphis International Airport (MEM). Taxi fare to downtown Memphis is approximately US\$30 one-way. Taxis depart from Terminal B baggage claim area at the ground level. For additional ground transportation from MEM, visit http://www.mscaa.com/directions/ground_transportation.

MEETING REGISTRATION: Register on-line at www.transformerscommittee.org for social events, tours and the meeting. Register by Friday, October 2 to receive a \$50 early registration discount. The on-line registration system will be disabled on Wednesday, October 28 to print namebadges and finalize counts. The cost to register on-site is substantially higher than the advance registration price.

WEATHER: We are glad you will visit Memphis in the fall where you will miss our hot and humid temperatures; however, our fall weather can be unpredictable. For this time of year, you can expect average highs of 68°F/20°C with average lows of 48°F/9°C. Best advice is to dress in layers and bring a jacket, just in case! Most of our events are indoors, and we are hoping for great weather during your visit!

SATURDAY EARLY BIRD EVENT: Join us for a unique experience at a venue with amazing energy! Cheer on the Memphis Grizzlies NBA basketball team from our own party suite at FedExForum, located in the heart of downtown, next to the famed Beale Street. Attendance is limited, so register early for this outing! See flyer for more details.

SUNDAY EVENING RECEPTION: Renew old friendships and form new ones! We have the Skyway Room reserved at the Peabody, and, weather permitting, we will be able to venture out onto the rooftop to see the Royal Duck Palace, the Memphis skyline and views of the Mississippi River. A cash bar and TONS of fabulous food will be provided, along with entertainment by Memphis vocalist and harmonica player, Brandon Santini.

WEDNESDAY DINNER SOCIAL: We invite you to join us at the Stax Museum of American Soul Music for a night of exceptional food surrounded by an amazing collection of “Memphis Sound” memorabilia. Take home your own photo memorabilia next to Isaac Hayes’ gold-plated, peacock blue 1972 Superfly Cadillac El Dorado. This will be a party experience you will not want to miss! Shuttle buses will run between the Peabody and Stax for your convenience. See flyer for more details.

SPOUSE/COMPANION TOURS: Monday will be “Beats and Eats” with an action-packed bus tour through the city, complete with a Backbeat Tours’ **professional Beale Street musician** along for the ride, playing and singing some of Memphis’ most legendary tunes. Enjoy lunch at the renowned **Blues City Café** before jumping back on the Music Bus for a rockin’ ride to **Graceland**. Here you will tour the King’s mansion and be immersed in Elvis facts and memorabilia to round out this fun-filled day! Attendance is limited, so register early. See flyer for details.

Tuesday is our “Creative Explorations” day, where you will spend the morning exploring **Dixon Gallery and Gardens**, a fine art museum and 17-acre public garden (certified arboretum) located in the heart of Memphis. Your explorations continue with a unique gourmet food truck lunch experience and then on to one of Memphis’ most unique locations, the **National Ornamental Metal Museum**. The Metal Museum is the only institution in the USA devoted exclusively to the art and craft of fine metalwork. Participate in a hands-on activity of creating your own cast-metal art while enjoying a magnificent view of the mighty Mississippi River.

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

- Meeting Registration Fee Summary. Use this as a guide to review the fees for each activity before you begin the on-line registration process. Instructions for individual event registrations and payment can be found on this page.
- Detailed Meeting Schedule and General Sessions Agenda. If any noteworthy changes are made, 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 Saturday Early Bird event, Wednesday Dinner Social, Spouse/Companion Tours and technical presentations.

We look forward to seeing you at the Fall 2015 Meeting and are certain you will enjoy a rockin’ good time in Memphis!

Craig & Cheryl Swinderman

Fall 2015 Meeting Host
Mitsubishi Electric Power Products, Inc.
Power Transformer Division
PTD.Sales@meppi.com
www.meppi.com



IEEE/PES TRANSFORMERS COMMITTEE
Fall 2015 Meeting; Memphis, Tennessee, USA
Agenda - General Session

Chair: Don Platts **Vice Chair:** Stephen Antosz **Secretary:** Sue McNelly
Treasurer: Greg Anderson **Awards Chair/Past Chair:** Bill Chiu **Standards Coordinator:** Bill Bartley

Opening Session

Monday, November 1: 8:00 am - 9:15 am

(rosters circulated and attendance recorded as eligibility for Committee membership)

- | | | |
|-------|---|-----------------------|
| 1. | Welcome and Announcements | Don Platts |
| 2. | Approval of Agenda | Don Platts |
| 3. | Approval of Minutes from Spring 2015 Meeting | Don Platts |
| 4. | Chair's Report | Don Platts |
| 5. | Vice Chair's Report | Stephen Antosz |
| 6. | Secretary's Report | Sue McNelly |
| 7. | Treasurer's Report | Greg Anderson |
| 8. | Report from Administrative Subcommittee Meeting | Don Platts |
| 9. | Standards Report | Bill Bartley |
| 10. | Editor's Report | Sanjib Som |
| 11. | Reports from Liaison Representatives | |
| 11.1. | CIGRE | Raj Ahuja |
| 11.2. | IEC TC-14 Technical Advisor to USNC | Paul Jarman |
| 11.3. | Standards Coordinating Committee, SCC No. 18 (NFPA/NEC) | Ned Brush |
| 11.4. | Standards Coordinating Committee, SCC No. 4 (Electrical Insulation) | Paulette Payne Powell |
| 12. | Hot Topics for the Upcoming Week | Subcommittee Chairs |
| 13. | New Business & Wrap-up | Don Platts |

Closing Session

Thursday, November 5; 11:00 am - 12:00 pm

- | | | |
|-------|--|----------------|
| 1. | Chair's Remarks and Announcements | Don Platts |
| 2. | Meetings Planning Subcommittee | Greg Anderson |
| 3. | Reports from Technical Subcommittees (decisions made during the week) | |
| 3.1. | Insulation Life | Bruce Forsyth |
| 3.2. | Performance Characteristics | Ed teNyenhuis |
| 3.3. | Power Transformers | Joe Watson |
| 3.4. | Underground Transformers & Network Protectors | Dan Mulkey |
| 3.5. | Bushings | Peter Zhao |
| 3.6. | Dielectric Tests | Mike Franchek |
| 3.7. | Distribution Transformers | Steve Shull |
| 3.8. | Dry Type Transformers | Chuck Johnson |
| 3.9. | HVDC Converter Transformers & Reactors | Mike Sharp |
| 3.10. | Instrument Transformers | Ross McTaggart |
| 3.11. | Insulating Fluids | David Wallach |
| 4. | Additional Report from Standards Subcommittee (issues from the week) | Bill Bartley |
| 5. | New Business (continued from Monday) and Wrap-up | Don Platts |

IEEE/PES TRANSFORMERS COMMITTEE
www.transformerscommittee.org
Fall 2015 Meeting; November 1-5
Hosted by Mitsubishi Electric Power Products, Inc.
The Peabody Memphis Hotel; Memphis, Tennessee USA

See Page 4 for a key to abbreviations.
 PECC = Peabody Executive Conference Center

<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>
Friday, October 30					
1:00 pm - 5:00 pm >	WG Step-Voltage Regulators 60076-57-15	Dist	C. Colopy	20 US	Galaxie (PECC)
Saturday, October 31					
TBD	TBD			15 US	Lansdowne (PECC)
> 8:00 am - 5:00 pm >	WG Step-Voltage Regulators 60076-57-15	Dist	C. Colopy	20 US	Galaxie (PECC)
6:00 pm until ??	<u>Early Bird Event:</u> Grizzlies NBA Basketball Game, including food and social fun in private party suite. -- Advance on-line registration necessary. Limited attendance. Will sell out early! See flyer for details. -- Meet in hotel lobby at 5:45 pm. We will walk together to FedExForum (4-5-minute walk). -- Our private event area opens at 6:00 pm. Game tip-off at 7:00 pm. Post-game celebration on Beale Street!				
Sunday, November 1					
7:30 am - 3:30 pm	<u>Technical Tour:</u> ABB Transformer Components Facility, Alamo, Tennessee -- All attendees & spouses/companions welcome, but advance registration necessary. -- Buses depart Peabody at 7:30 am and return ~3:30 pm. Special return by 1:00 pm upon request. -- Register on-line, or contact Ms. Lisa Q. Cotten at +1.731.696-5289 or <lisa.q.cotten@us.abb.com>.				
1:00 pm - <u>5:30 pm</u>	Meeting Registration				East Mezzanine
2:00 pm - 5:30 pm	Administrative SC -- Closed meeting, by invitation only	Admin.	D. Platts	24 US	Venetian Room
<u>2:00 pm</u> - 5:30 pm	NEMA Transformers -- Closed meeting, by invitation only	++	C. Drexler	16 US	Forest
6:00 pm - 8:00 pm	Welcome Reception			450 Reception	Skyway (rooftop)
Monday, November 2 -- Monday Breaks Sponsored by Baron USA **					
7:00 am - 5:00 pm	Meeting Registration				East Mezzanine
<u>7:00 am</u> - 7:50 am	Newcomers Orientation -- Breakfast Meeting; arrive early! -- Newcomers & Guests are encouraged to attend!		S. Antosz	60 CL S2 (with buffet)	Venetian
7:00 am - 7:50 am	Distribution SC Leaders Coordination -- Closed breakfast meeting, by invitation only		S. Shull	16 BD	Brinkley
7:00 am - 8:00 am	Breakfast - Attendees (no spouses/companions please)			270 RT (9/tbl)	Skyway (rooftop)
8:00 am - 9:30 am	Breakfast - Spouses/Companions (no meeting attendees please)			96 RT (8/tbl)	Forest
9:15 am - 3:30 pm	<u>Spouses/Companions Tour:</u> "Memphis Beats & Eats"; Backbeat Mojo Tour, Blues City Café, and Graceland. -- Advance registration required. Limited attendance. See flyer for details. -- Bus departs The Peabody at 9:15 am, and returns ~3:30 pm.				
8:00 am - 9:15 am >	Opening Session -- <u>All attendees</u> are encouraged to attend -- See separate document for meeting agenda -- Attendance recorded as eligibility for Committee membership		D. Platts	231 CL S1 ~319 TH ~550 TOTAL	Grand Ballroom ABC
9:15 am - 9:30 am	<i>Break (beverages only)</i>				
				Mezzanine South & Ballroom 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>
Monday, November 2 (continued)					
	TF Winding Temp. Indicators	IL	Will not meet.	Task is complete.	
9:30 am - 10:45 am	TF Thermal Evaluation of Insulation Systems, Dry Type C57.12.60	Dry	C. Ballard	60 MX	Venetian
9:30 am - 10:45 am	WG Submersible Transf. C57.12.24	UTNP	G. Termini	80 MX S2	Grand Ballroom D
9:30 am - 10:45 am	WG External Dielectric Clearances	DiTests	E. Davis	150 MX S3	Continental BR
9:30 am - 10:45 am	WG Tertiary/Stabilizing Windings PC57.158	PCS	E. Betancourt	150 MX S3	Grand Ballroom A
9:30 am - 10:45 am	TF Consolidation of Oil Guides	IF	T. Prevost	200 MX S3	Grand Ballroom B
9:30 am - 10:45 am	TBD			200 MX S3	Grand Ballroom C
10:45 am - 11:15 am	<i>Break (beverages only)</i> <i>This break is 30 minutes long. Go watch the "Duck March" in the hotel lobby. Who will be the Honorary Duckmaster today?</i>			Mezzanine South & Ballroom Foyer	
11:15 am - 12:15 pm	WG Ventilated Dry Type C57.12.51	Dry	S. Som	60 MX	Venetian
11:15 am - 12:15 pm	WG PD Acoustic Detection C57.127	DiTests	D. Gross	80 MX S2	Grand Ballroom D
11:15 am - 12:15 pm	WG Overhead Distr. Transf. C57.12.20	Dist	A. Traut	150 MX S3	Continental BR
11:15 am - 12:15 pm	TBD			150 MX S3	Grand Ballroom A
11:15 am - 12:15 pm	WG Moisture in Insulation PC57.162	IL	T. Prevost	200 MX S3	Grand Ballroom B
11:15 am - 12:15 pm	WG PCS Rev. to Test Code C57.12.90	PCS	M. Perkins	200 MX S3	Grand Ballroom C
12:15 pm - 1:30 pm	<u>Lunch Meeting:</u> Standards Development Review -- <u>Everyone</u> is welcome to attend. All SC/WG/TF leaders are <u>highly encouraged</u> to attend. -- Doors open ~12:00 pm. Come early, get a good seat, and start eating. -- Advance registration necessary. No paper tickets. Admission verified with RFID namebadge at the door.			200 RT (8/tbl)	Skyway (rooftop)
	WG Tank Rupture & Mitigation PC57.156	Power	Will not meet.	Document in final development.	
1:45 pm - 3:00 pm	WG Dry Type Gen. Require. C57.12.01	Dry	T. Holdway	60 MX	Venetian
1:45 pm - 3:00 pm	WG Sec. Network Protectors C57.12.44	UTNP	B. Wimmer	80 MX S2	Grand Ballroom D
1:45 pm - 3:00 pm	WG 1-ph Padmount Dist Transf. C57.12.38	Dist	A. Ghafourian	150 MX S3	Continental BR
1:45 pm - 3:00 pm	TF Thru-Fault Current Duration PC57.109	PCS	V. Mehrotra	150 MX S3	Grand Ballroom A
1:45 pm - 3:00 pm	WG Installation of Power Transf. C57.93	Power	M. Lau	200 MX S3	Grand Ballroom B
1:45 pm - 3:00 pm	TF Audible Sound Revision to Test Code	PCS	R. Girgis	200 MX S3	Grand Ballroom C
3:00 pm - 3:15 pm	<i>Break (beverages and treats)</i>			Regency Foyer	
3:15 pm - 4:30 pm	WG Milli-amp Current Transf. C57.13.7	IT	H. Alton	60 MX	Venetian
3:15 pm - 4:30 pm	SC HVDC Converter Transformers and Smoothing Reactors	HVDC	M. Sharp	80 MX S2	Grand Ballroom D
3:15 pm - 4:30 pm	WG 3-ph Padmount Dist Transf. C57.12.34	Dist	R. Stahara	150 MX S3	Continental BR
3:15 pm - 4:30 pm	WG Natural Ester-Based Fluids C57.147	IF	P. McShane	150 MX S3	Grand Ballroom A
3:15 pm - 4:30 pm	WG Dielectric Freq. Response PC57.161	DiTest	A. Naderian	200 MX S3	Grand Ballroom B
3:15 pm - 4:30 pm	WG Transformer Capability with Non-sinusoidal Loads PC57.110	PCS	R. Marek	200 MX S3	Grand Ballroom C
4:30 pm - 4:45 pm	<i>Break (beverages only)</i>			Mezzanine South & Ballroom Foyer	
	WG Dry Type O&M Guide C57.94	Dry	Will not meet.	Resolving ballot comments.	
	WG Oil Accept & Maint. Guide C57.106	IF	Will not meet.	Resolving ballot comments.	
4:45 pm - 6:00 pm	TBD			60 MX	Venetian
4:45 pm - 6:00 pm	WG PD in Bushings & PT/CTs PC57.160	DiTests	T. Hochanh	80 MX S2	Grand Ballroom D
> 4:45 pm - 6:00 pm	WG Step-Voltage Regulators C57.15 / 60076-21 (cont'd from Sat)	Dist	C. Colopy	150 MX S3	Continental BR
4:45 pm - 6:00 pm	TBD			150 MX S3	Grand Ballroom A
4:45 pm - 6:00 pm	WG Life Extension C57.140	Power	P. Boman	200 MX S3	Grand Ballroom B
4:45 pm - 6:00 pm	WG PCS Revisions to C57.12.00	PCS	T. Ansari	200 MX S3	Grand Ballroom C
6:00 pm - 10:00 pm	<u>Technical Tour:</u> Mitsubishi Electric Transformer Manufacturing Facility. <u>By Invitation Only.</u> -- Buses begin loading at The Peabody at 6:00 pm. Last bus departs at 6:30 pm. -- Dinner served at factory. Return to Peabody ~10:00 pm. -- For details, contact Andrea Pesonen at +1.901.566.3863 or <andrea.pesonen@meppi.com>				

<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, November 3 -- Tuesday Breaks Sponsored by Brockhaus Measurements **					
7:00 am - 12:00 pm	Meeting Registration				East Mezzanine
7:00 am - 8:00 am	Breakfast - Attendees (no spouses/companions please)			270 RT (9/tbl)	Skyway (rooftop)
8:00 am - 9:30 am	Breakfast - Spouses/Companions (no meeting attendees please)			96 RT (8/tbl)	Forest
7:00 am - 7:50 am	EL&P Delegation (end-users only please) -- Breakfast Meeting; arrive early		J. Murphy	36 CL S2 (with buffet)	Louis XVI
9:15 am - 3:30 pm	Spouses/Companions Tour: "Creative Explorations"; Dixon Gallery/Garden & food truck lunch, Metal Museum -- Advance registration required. Limited attendance. See flyer for details. -- Bus departs The Peabody at 9:15 am, and returns ~3:30 pm.				
	WG Geomagnetic Disturbances PC57.163	Stds	Will not meet.	Document in final development.	
8:00 am - 9:15 am	WG Station Service Voltage Transformers	IT	D. Wallace	60 MX	Venetian
8:00 am - 9:15 am	TF Limits for Winding Insulation PF/Resistance (New!)	DiTests	S. Tarlapally	80 MX S2	Grand Ballroom D
8:00 am - 9:15 am	WG Enclosure Integrity C57.12.28, C57.12.29, C57.12.31, C57.12.32	Dist	D. Mulkey	160 MX S3	Continental BR
8:00 am - 9:15 am	TF Composite Bushings (New!)	Bush	J. Graham	150 MX S3	Grand Ballroom A
8:00 am - 9:15 am	WG Revision to C57.12.10	Power	G. Hoffman	200 MX S3	Grand Ballroom B
8:00 am - 9:15 am	WG Functional Life Tests, De-energized Tap Changers (DETC) PC57.157	Power	P. Hopkinson	200 MX S3	Grand Ballroom C
9:15 am - 9:30 am	Break (beverages only)			Mezzanine South & Ballroom Foyer	
	TF Committee History	Mtgs	Will not meet at this meeting.		
9:30 am - 10:45 am	WG Req. for Instrument Transf. C57.13	IT	R. McTaggart	60 MX	Venetian
9:30 am - 10:45 am	WG 1-Ph Submersible Transf. C57.12.23	UTNP	A. Traut	80 MX S2	Grand Ballroom D
9:30 am - 10:45 am	TBD			160 MX S3	Continental BR
9:30 am - 10:45 am	TF for Distribution Transf. Bushings	Bush	S. Shull	150 MX S3	Grand Ballroom A
9:30 am - 10:45 am	WG Shunt Reactors C57.21	PCS	S. Som	200 MX S3	Grand Ballroom B
9:30 am - 10:45 am	WG Wind Turbine Transf. P60076-16	PCS	D. Buckmaster	200 MX S3	Grand Ballroom C
10:45 am - 11:00 am	Break (beverages only)			Mezzanine South & Ballroom Foyer	
	WG Impulse Tests C57.138 (Distribution)	DiTests	Will not meet.	Resolving ballot comments.	
	WG Guide for DGA in LTCs C57.139	IF	Will not meet.	Resolving ballot comments.	
11:00 am - 12:15 pm	WG Liquid-immersed Secondary Network Transformers C57.12.40	UTNP	B. Klaponski	60 MX	Venetian
11:00 am - 12:15 pm >	WG Phase Shift Transf. 60076-57-1202 (continued on Thurs afternoon)	Power	R. Ahuja	80 MX S2	Grand Ballroom D
11:00 am - 12:15 pm	TBD			160 MX S3	Continental BR
11:00 am - 12:15 pm	WG GSU Bushings PC57.19.04	Bush	S. Digby	150 MX S3	Grand Ballroom A
11:00 am - 12:15 pm	TBD			200 MX S3	Grand Ballroom B
11:00 am - 12:15 pm	WG Loss Evaluation Guide C57.120	PCS	M. Miller	200 MX S3	Grand Ballroom C
12:15 pm - 1:30 pm	<u>Awards Luncheon</u>		B. Chiu	216 RT (8/tbl)	Skyway (rooftop)
	-- Doors open ~12:00 pm. Come early, get a good seat, and start eating. -- Advance registration necessary. No paper tickets. Admission verified with RFID namebadge at the door. All meeting attendees are encouraged attend. It's a great way to show your appreciation and help us recognize our accomplishments.				
1:45 pm - 3:00 pm	WG 3-ph Transf. Connections PC57.105	PCS	A. Bromley	60 MX	Venetian
1:45 pm - 3:00 pm	TF Tap-Changer C57.131 / 60214-1	Power	C. Colopy	80 MX S2	Grand Ballroom D
1:45 pm - 3:00 pm	WG Distr. Substation Transf. C57.12.36	Dist	J. Murphy	160 MX S3	Continental BR
1:45 pm - 3:00 pm	TBD			150 MX S3	Grand Ballroom A
1:45 pm - 3:00 pm	WG Revision to Low Frequency Tests	DiTests	B. Poulin	200 MX S3	Grand Ballroom B
1:45 pm - 3:00 pm	WG DPV Grid Transformers PC57.159	PCS	H. Shertukde	200 MX S3	Grand Ballroom C
3:00 pm - 3:15 pm	Break (beverages and Pretzels!)			Mezzanine South & 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 from the hotel with advance notice.

> -- 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

BD -- boardroom

US -- U-shape

RT -- multiple roundtables

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

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

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

<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, November 3 (continued)					
	TF Core Casing & Grounding	PCS	Will not meet. Task is complete.		
3:15 pm - 4:30 pm	WG Dry Type Test Code C57.12.91	Dry	D. Foster	60 MX	Venetian
3:15 pm - 4:30 pm	WG Tap-Changer Applic. Guide 60214-2	Power	C. Colopy	80 MX S2	Grand Ballroom D
3:15 pm - 4:30 pm	WG Test Data Reporting C57.12.37	Dist	T. Callsen	160 MX S3	Continental BR
3:15 pm - 4:30 pm	WG Std Require for Bushings C57.19.01	Bush	S. Zhang	150 MX S3	Grand Ballroom A
3:15 pm - 4:30 pm	WG Application of High-Temp Insulation Materials, IEEE P-1276	IL	R. Wicks	200 MX S3	Grand Ballroom B
3:15 pm - 4:30 pm	TF Switching Transients Induced by Transf/Breaker Interaction C57.142	PCS	J. McBride	200 MX S3	Grand Ballroom C
4:30 pm - 4:45 pm	<i>Break (beverages only)</i>			Mezzanine South & Ballroom Foyer	
	WG Neutral Grounding Devices PC57.32	PCS	Will not meet. Resolving ballot comments.		
	WG Transf. Paralleling Guide PC57.153	Power	Will not meet. Document complete.		
4:45 pm - 6:00 pm	TBD			60 MX	Venetian
4:45 pm - 6:00 pm	TF for Cross Reference of IEEE to IEC	Stds	V. Mehrotra	80 MX S2	Grand Ballroom D
4:45 pm - 6:00 pm	WG Tank Pressure Coordinat. C57.12.39	Dist	C. Gaytan	160 MX S3	Continental BR
4:45 pm - 6:00 pm	TF Short Circuit Design Criteria (New!)	PCS	D. Buckmaster	150 MX S3	Grand Ballroom A
4:45 pm - 6:00 pm	WG Revision to Gas Guide C57.104	IF	R. Ladroga	200 MX S3	Grand Ballroom B
4:45 pm - 6:00 pm	WG Revisions to Impulse Test Sections of C57.12.00 and C57.12.90	DiTests	P. Riffon	200 MX S3	Grand Ballroom C
No Technical Tours or Social Events Planned					
Wednesday, November 4 -- Wednesday Breaks Sponsored by R.L. Components **					
	No Meeting Registration, No Technical Tours, No Spouse/Companion Tours				
7:00 am - 8:00 am	Breakfast - Attendees (no spouses/companions please)			252 RT (9/tbl)	Skyway (rooftop)
8:00 am - 9:30 am	Breakfast - Spouses/Companions (no meeting attendees please)			88 RT (8/tbl)	Forest
7:00 am - 7:50 am	SC Meetings Planning	Mtgs	G. Anderson	24 CL	Louis XVI
7:00 am - 8:30 am	IEC TC-14 Technical Advisory Group -- Breakfast Meeting; arrive early -- All interested individuals welcome	++	P. Hopkinson	80 CL S2 (with buffet)	Continental BR
8:00 am - 9:15 am	SC Instrument Transformers	IT	R. McTaggart	80 MX S2	Grand Ballroom D
8:00 am - 9:15 am	SC Insulation Life	IL	B. Forsyth	350 MX S3	Grand Ballroom AB
9:15 am - 9:30 am	<i>Break (beverages only)</i>			Mezzanine South & Ballroom Foyer	
9:30 am - 10:45 am	SC Bushings	Bush	P. Zhao	200 MX S3	Grand Ballroom C
9:30 am - 10:45 am	SC Distribution Transformers	Dist	S. Shull	350 MX S3	Grand Ballroom AB
10:45 am - 11:00 am	<i>Break (beverages only)</i>			Mezzanine South & Ballroom Foyer	
11:00 am - 12:15 pm	SC UG Transf. & Network Protectors	UTNP	D. Mulkey	80 MX S2	Grand Ballroom D
11:00 am - 12:15 pm	SC Dielectric Tests	DiTests	M. Franchek	350 MX S3	Grand Ballroom AB
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.

<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>
Wednesday, November 4 (continued)					
1:30 pm - 2:45 pm	SC Dry Type Transformers	Dry	C. Johnson	80 MX S2	Grand Ballroom D
1:30 pm - 2:45 pm	SC Power Transformers	Power	J. Watson	350 MX S3	Grand Ballroom AB
2:45 pm - 3:00 pm	<i>Break (beverages and treats)</i>			Mezzanine South & Ballroom Foyer	
3:00 pm - 4:15 pm	SC Insulating Fluids	IF	D. Wallach	200 MX S3	Grand Ballroom C
3:00 pm - 4:15 pm	SC Performance Characteristics	PCS	E. teNyenhuis	350 MX S3	Grand Ballroom AB
4:15 pm - 4:30 pm	<i>Break (beverages only)</i>			Regency Foyer	
4:30 pm - 5:45 pm	SC Standards	Stds	B. Bartley	350 MX S3	Grand Ballroom AB
6:30 pm - 10:00 pm	Dinner Social: Stax Museum of American Soul Music -- Advance registration required. See flyer for more information. -- Doors of museum open at 6:30 pm; with buffet dinner; and cash bar provided. -- Paper tickets will not be provided. Admission verified with RFID namebadges as you enter the museum. -- Buses begin loading at The Peabody at 6:00 pm, last bus departs at 7:00 pm. -- After the event, buses begin loading at the museum at 9:00 pm, last bus departs at 10:00 pm.				

Thursday, November 5

No Meeting Registration, No Spouses/Companions Tours, No EPRI TF Meeting					
7:00 am - 8:00 am	Breakfast - Attendees			252 RT (9/tbl)	Skyway (rooftop)
8:00 am - 9:30 am	Breakfast - Spouses/Companions			88 RT (8/tbl)	Forest
8:00 am - 9:15 am	Technical Presentation: "TBD". See flyer on website			231 CL S1 ~220 TH ~450 TOTAL	Grand Ballroom ABC
9:15 am - 9:30 am	<i>Break (beverages only)</i>			Ballroom Foyer only	
9:30 am - 10:45 am	Technical Presentation: "TBD". See flyer on website			450 MX S1	Grand Ballroom ABC
10:45 am - 11:00 am	<i>Break (beverages only)</i>			Ballroom Foyer only	
> 11:00 am - 12:00 pm	Closing Session -- <u>All attendees</u> are encouraged to attend -- See separate document for meeting agenda		D. Platts	450 MX S1	Grand Ballroom ABC
Lunch on your own					
12:30 pm - 8:30 pm	Technical Tour: Reinhausen Manufacturing Facility, Humboldt, Tennessee -- All attendees & spouses/companions welcome, but advance registration necessary. -- Bus departs Peabody at 12:30 pm (box lunch on bus) and returns ~8:30 pm (depart Humboldt at 6:30 pm). -- Register on-line, or contact Ms. Christy Crawford at +1.731.562.4127 or <c.crawford@us.reinhausen.com>.				
> 1:30 pm - 5:00 pm	WG Phase Shift Transformers 60076-57-1202 (continued from Tuesday)	Power	R. Ahuja	15 US	Forest

Friday, November 6

No Technical Tours, No EPRI TF Meeting					
8:00 am - 5:00 pm >	WG Tap Changer Application Guide 60214-2	Power	A. Kraemer	15 US	Louis XVI

Saturday, November 7

> 8:00 am - 12:00 pm	WG Tap Changer Application Guide 60214-2 (continued from Friday)	Power	A. Kraemer	15 US	Louis XVI
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** Contact Tom Prevost (tprevost@ieee.org) if you are interested in making a technical presentation at a future meeting.

FUTURE COMMITTEE MEETINGS

Spring 2016 - March 20-24; Atlanta, Georgia

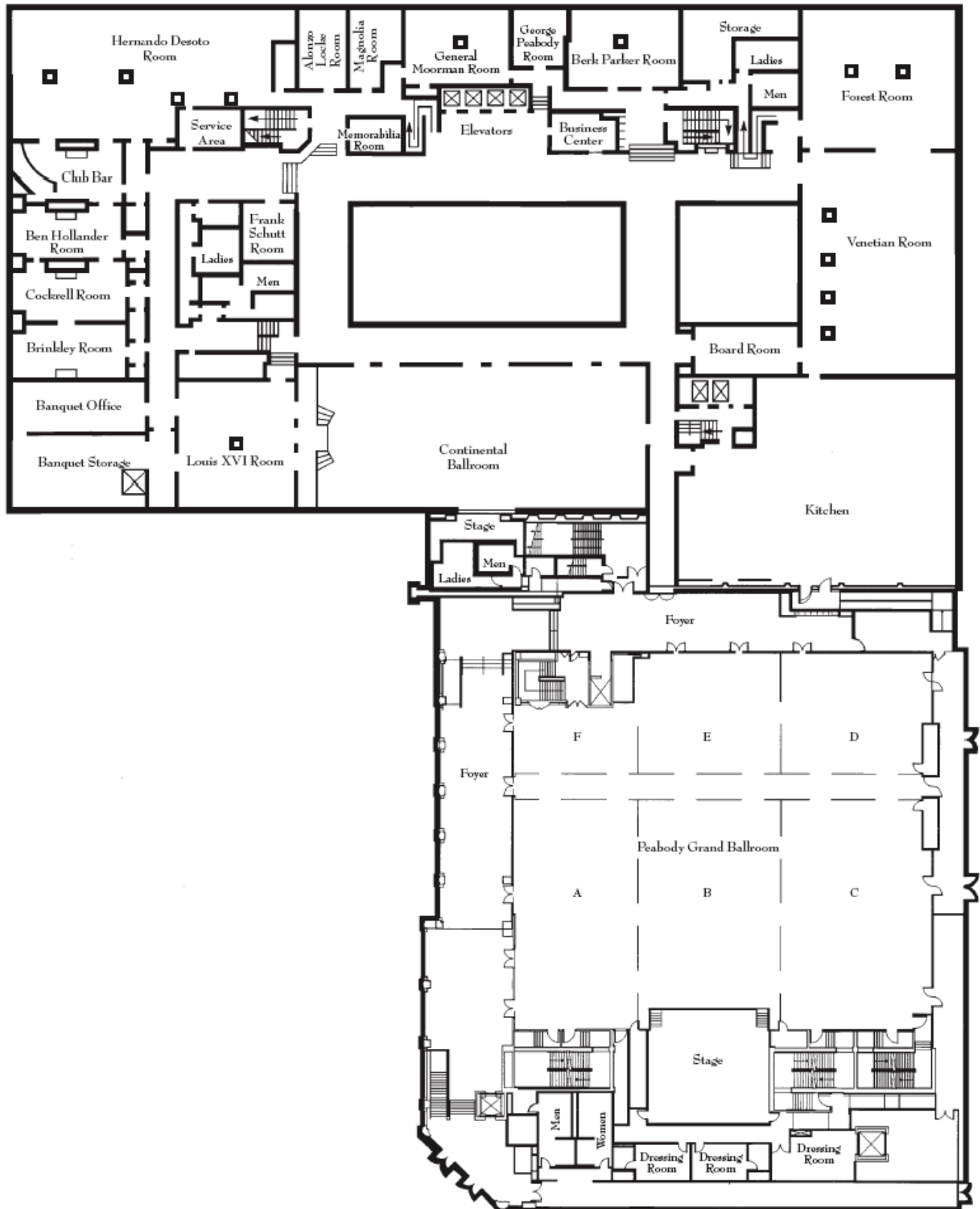
Fall 2016 - October 16-20 or 23-27; Location TBD

Spring 2017: March 26-30; Location TBD

Fall 2017: October 15-19 or 22-26; Location TBD

The Peabody Memphis
149 Union Avenue; Memphis, Tennessee 38103 USA
(901) 529-4000

Mezzanine Level



IEEE/PES TRANSFORMERS COMMITTEE

Fall 2015 Meeting; Memphis, Tennessee USA

-- Meeting Registration Fees Summary --

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

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

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

Print a receipt at the end of the registration process. Paper receipts will NOT be provided at the meeting.

Refund provided only if the request is received by Wednesday, October 28. Valid once confirmation email is received.

US\$25 service charge for a refund of entire registration; or 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 October 2	After Oct 2, on or before October 28	On-site, at Meeting
MEETING REGISTRATION			
Attendee, IEEE member (will be verified with IEEE)	\$300	\$350	\$450
Attendee, not IEEE member	\$350	\$400	\$500
Attendee, IEEE Life or Committee Emeritus (will be verified)	\$100	\$150	\$250
Spouse or Companion, and children age 12 and over	\$100	\$150	\$250
Attendee Registration Fee Includes: Entry into Meeting Area, Sunday Reception, coffee breaks, 4 breakfasts (M, T, W, Th) Spouse/Companion Registration Fee Includes: Sunday Reception, 4 breakfasts (Mon, Tues, Wed, Thurs)			
A Companion is a "significant other", boy/girlfriend, who is attending for <u>non-commercial</u> reasons, i.e., not attending the technical meetings, etc.). Spouses/companions & children (age 12 and over) must be registered for the meeting - with above meeting registration fees - to attend any tour or social event.			
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. -- Buffet lunch; no need to choose a meal selection.	\$20	\$20	\$20
Tuesday Awards Luncheon -- Indicate a meal selection: beef, chicken, or vegetarian.	\$30	\$30	\$30
SOCIAL EVENTS (see flyers for details)			
Saturday Evening Early-Bird Event: Grizzlies NBA Game ** -- Food & social fun in private suite; 4-5 min walk from Peabody.	\$65	\$65	--
Wednesday Dinner Social: Stax Museum -- Buffet dinner; no need to choose a meal selection.	\$75	\$75	\$75
** Attendance extremely limited. Register early!			
SPOUSE/COMPANION TOURS (see flyers for details)			
Monday: Memphis Beats & Eats -- Mojo Tour, Graceland, etc. ***	\$70	\$70	--
Tuesday: Creative Explorations -- Dixon Gallery, Metal Museum ***	\$50	\$50	--
*** Both spouse/companions tours include lunch. Attendance limited. Register early!			
TECHNICAL TOURS			
Sunday: ABB Transformers Components Facility -- Everyone invited; register on-line; see flyer for details.			
Monday Evening: Mitsubishi Transformer Manufacturing Facility -- By invitation only; contact MEPPI directly.			
Thursday Afternoon: Reinhausen Manufacturing Facility -- Everyone invited, register on-line; see flyer for details.			

Technical Tour - ABB in Alamo, Tennessee

Sunday, November 1, 2015

ABB cordially invites you to tour the Alamo, Tennessee facility on Sunday, November 1, 2015.



The leader in transformer components

ABB in Alamo, Tennessee, the North American center of excellence for transformer components, is responsible for the design and manufacture of products for use in both power and distribution applications. With a reputation built on safety, quality, reliability, and customer service, come see for yourself why this facility is the industry leader in transformer components.

More than manufacturing

We pride ourselves on being teachers, not just manufacturers. It's not enough to show you what we do, we want to teach you why we do it. During your tour you will:

- learn about both the legacy and future of condenser bushing technology.
- see different types of condenser bushings being manufactured.
- take part in demonstrations that highlight the differences between traditional oil-filled bushings and the next generation of dry bushings.
- experience how ABB tests bushings before shipping them to our customers.
- understand how on load tap changers continue to evolve.
- watch our latest load tap changer in action.
- engage in an open information exchange with our experts.

Feed your mind, fill your stomach

Breakfast will be provided en route to Alamo.

A barbecue lunch will be provided by regional favorite Latham's Meat Co. of Jackson, Tennessee. Fill your stomach with lunch while sounds of nationally recognized, local musicians fill the air.

Timing is everything: tour and lunch schedule

- 7:30 a.m.: Buses depart from the Peabody Hotel for Alamo
- 9:30 a.m.: Arrive in Alamo
- 9:45 a.m.: Tour of the Alamo facility including demonstrations
- 12:30 p.m.: Lunch is served
- 1:30 p.m.: Buses depart for return trip to the Peabody Hotel (approximate arrival time is 3:30 p.m.)

A special return to the Peabody Hotel by 1:00 p.m. will be available upon request.

Additional information

- Space is limited but everyone is invited! (Feel free to include your spouses and travel companions.)
- You may register online, during the IEEE meeting registration, or by contacting Lisa Cotten at 731-696-5289 or lisa.q.cotten@us.abb.com.
- Please inform us of any special needs or dietary restrictions when registering for the tour.
- No photography is allowed inside the ABB facility.

Reinhausen Technical Tour

Thursday, November 5, 2015



Reinhausen Manufacturing Inc. cordially invites you to tour our Humboldt, Tennessee facility on Thursday afternoon, November 5, 2015. As the world's leading manufacturer of Load Tap Changers, we want you to come experience why we are so proud of our products and the people that help make it happen each and every day!

In the last two decades, our plant has undergone many changes and \$2.5M worth of upgrades to bring you what we have today. Not only have we doubled our physical size since opening over 25 years ago, but we have also implemented many state-of-the-art processes such as an automated motor drive production, new logistics and customized software to get our products more efficiently from our dock to yours. In 2014 alone, more than 1,000 LTCs were shipped from our facility!

Following the tour, a spectacular dinner will be served at the Opera House in downtown Humboldt. Mix and mingle to the music in this beautifully restored historic building while the food and drinks freely flow!



Tour and Dinner Schedule:

12:30 pm: Bus departs the Peabody (*new name badges and box lunches will be provided*)

2:30 pm: Arrive at Reinhausen Manufacturing in Humboldt; Tour begins

4:30 pm: Bus departs for dinner at the Opera House in Humboldt

4:45 pm: Entertainment and appetizers begin

5:15 pm: Dinner is served

6:30 pm: Bus departs for Peabody (*approx. return to Peabody at 8:30 pm*)

Space is limited, but **EVERYONE** —*including spouses/companions*— is invited!

You may register either online during your IEEE meeting registration or contact Christy Crawford at 731-562-4127 or c.crawford@us.reinhausen.com to reserve your spot.

*Please inform us of any special needs or dietary restrictions when you register for the meeting.
No cameras please.*



EARLY BIRD EVENT
Saturday, October 31, 2015

Memphis Grizzlies NBA Basketball Game
Party Suite Experience

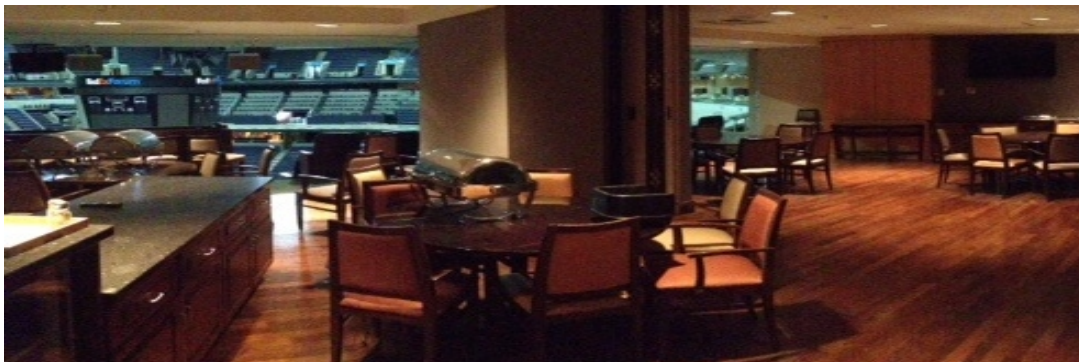


MEMPHIS GRIZZLIES
SUITE EXPERIENCE

• PREMIUM EXPERIENCE •

Join us for a unique MVP premium experience at a venue with amazing energy while cheering on the Memphis Grizzlies NBA basketball team as they play the Brooklyn Nets at 7:00pm.

We will watch the game from our own party suite at FedExForum, located in the heart of downtown, next to the famed Beale Street. www.fedexforum.com



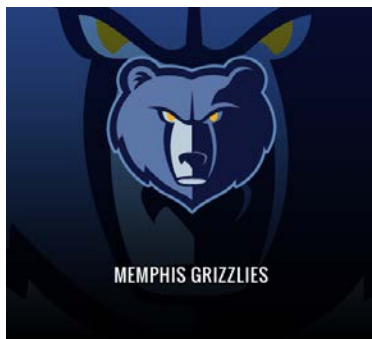
Registration fee includes the following:

- Ticket to the game with access to our private party suite located on the First Tennessee Club Level
- Enjoy heavy hors d'oeuvres with a great view of the game!
- Access to The Draft Room bar located near our party suite to purchase a wide array of alcoholic beverages

Itinerary

5:45 pm: Meet in hotel lobby to walk to FedExForum (4–5 minute walk)
6:00 pm: Pre-game social in the party suite
7:00 pm: Game Time!

Enjoy post-game celebration on Beale Street!



Attendance extremely limited... REGISTER EARLY!





SPOUSE/COMPANION TOUR

Monday, November 2, 2015

Memphis Beats and Eats



Get to know Memphis on this action-packed drive through the city complete with a professional Beale Street musician playing and singing some of Memphis' most legendary tunes on the city's popular Backbeat Mojo Tour.



Lunch will put some "South in your Mouth" at the renowned Blues City Café on Beale Street.

We will enjoy family style dining where famous and infamous actors, politicians, musicians, authors and sports figures have enjoyed delicious eats. www.bluescitycafe.com

Lunch Menu

(please advise of any dietary restrictions when registering)

Hickory Smoked Sausage & Cheese
World's Best Tamales
Hand Cut Steak
Golden Fried Catfish
Southern Sides

After lunch, jump back on the Music Bus for a rockin' ride to Graceland where you'll tour the King's mansion and be immersed in Elvis facts and memorabilia to round out this fun-filled day of Memphis beats and eats!

www.graceland.com

Itinerary

- 9:15am: Backbeat Tours' buses depart from The Peabody lobby to begin a fun-loving ride through Memphis
- 12:00pm: Lunch at Blues City Café
- 1:00pm: Board buses to Graceland
- 3:30pm: Return to hotel (approximate time)



Attendance extremely limited... REGISTER EARLY!





SPOUSE/COMPANION TOUR

Tuesday, November 3, 2015

Creative Explorations



Spend the morning exploring Dixon Gallery and Gardens, a fine art museum and 17-acre public garden (certified arboretum) located in the heart of Memphis. Tour the greenhouses and do not miss the most ambitious outdoor sculpture exhibition in Dixon history on view in the gardens with powerful ceramic sculptures by Jun Kaneko. www.dixon.org



Has the gourmet food truck craze hit where you live? Continue your explorations with a unique “meal on wheels” lunch experience. Indoor seating will be available. memphisfoodtruckers.org

After lunch, board the buses to continue your explorations of Memphis’ creative side at the National Ornamental Metal Museum. The Metal Museum is the only institution in the United States devoted exclusively to the art and craft of fine metalwork. Enjoy a blacksmith demonstration and create your own piece of metal artwork as a souvenir. Stroll through the outdoor sculpture garden and do not miss the magnificent view of the mighty Mississippi River. www.metalmuseum.org



Itinerary

- 9:15am: Buses* depart from Peabody Lobby
- 9:45am: Dixon Gallery and Gardens
- 11:45am: Food Trucks open for lunch orders
- 1:00pm: Board buses to Metal Museum
- 3:30pm: Return to hotel (approximate time)

* Please note that buses are NOT equipped with restrooms; however, travel between venues should be no more than 20 minutes.

Attendance extremely limited... REGISTER EARLY!





DINNER SOCIAL Wednesday, November 4, 2015

STAX Museum of American Soul Music



Stax Records is synonymous with the creation of soul music and helped put Memphis on the map. Enjoy a fabulous evening of food and cheer surrounded by an amazing collection of more than 2,000 interactive exhibits, films, artifacts, items of memorabilia and galleries of musical history. www.staxmuseum.com

We will have access to the whole museum, including a photo booth where you can dress in costumes with props. Take home your own souvenir with a choice of backdrops, including standing next to Isaac Hayes' gold-plated, peacock blue 1972 Superfly Cadillac El Dorado!



Dinner will include an array of scrumptious southern delights, such as BBQ pulled pork with baked beans and coleslaw, or Gus's fried chicken with mashed potatoes and biscuits. You'll find fun tidbits like BLT stuffed tomatoes, crudité cups and a variety of flavorful skewers throughout the museum. Traditional roast beef au jus, salads, as well as vegetarian options and delectable desserts will leave you feeling stuffed!

Non-alcoholic beverages are included, with cash bar provided ... and rest assured, seating will be available!

Itinerary

- 6:00 pm: Buses begin loading at The Peabody; last bus departs the hotel at 7:00 pm
- 6:30 pm: Museum doors open
- 9:00 pm: Buses begin loading at museum; last bus departs at 10:00 pm



Advance registration required... REGISTER EARLY!

