IEEE/PES TRANSFORMERS COMMITTEE

www.transformerscommittee.org Spring 2016 Meeting; March 20-24 Hosted by Power Partners, Inc. Sheraton Atlanta Hotel; Atlanta, Georgia USA

See Page 5 for a key to abbreviations.

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DATE/TIME	ACTIVITY	SUB- COM	ACTIVITY CHAIR	ROOM CAP/ARR/AV	MEETING ROOM		
1:00 pm - 5:00 pm >	IEC/IEEE HVDC Converter Transformers MT 60076-57-129	HVDC	U. Radbrandt	14 US	Suite #123 (Level 1)		
Saturday, March 19							
> 8:00 am - 5:00 pm >	IEC/IEEE HVDC Converter Transformers	HVDC	U. Radbrandt	14 US	Suite #123		
6:15 pm to 10:30 pm	Advance on-line registration necessary.	Early Bird Event: "Agatha's, A Taste of Mystery!", interactive dinner theater (www.agathas.com) Advance on-line registration necessary. Limited attendance. Will sell-out early! See flyer for details Meet in hotel lobby at 6:15 pm. We will walk together to Agatha's (5-6 minute walk). Return ~10:30 pm					
Sunday, March 20							
> 8:00 am - 12:00 pm	IEC/IEEE HVDC Converter Transformers	HVDC	U. Radbrandt	14 US	Suite #123		
9:00 am - 1:30 pm	Technical Tour: Hitachi HVB Circuit Breake Bus departs front of hotel at 9:00 am; ret Indicate interest to attend tour during on- contact Ms. Jackie Burtle at <jackieb@hv< td=""><td>urns by 1: line meeti</td><td>30 pm. Morning re ng registration, or</td><td>freshments at fact</td><td>ation Only. ory; lunch after tour.</td></jackieb@hv<>	urns by 1: line meeti	30 pm. Morning re ng registration, or	freshments at fact	ation Only. ory; lunch after tour.		
1:00 pm - <u>5:30 pm</u>	Meeting Registration				Capital Pre-function (Level 1)		
2:00 pm - 5:30 pm	Administrative SC Closed meeting, by invitation only	Admin.	S. Antosz	26 US	Atlanta 1,2,3 (Level 1)		
2:00 pm - 5:30 pm	NEMA Transformers Closed meeting, by invitation only	++	J. Caskey	18 US	Atlanta 4,5 (Level 1)		
6:00 pm - 8:00 pm	Welcome Reception			475 Reception	Garden Courtyard (Poolside)		
Monday, March 21	Monday Breaks Sponsored by SPX Tr	ansform	er Solutions, In	C. **			
7:00 am - 5:00 pm	Meeting Registration				Capital Pre-function		
7:00 am - 7:50 am	Newcomers Orientation S. McNelly Breakfast Meeting; arrive early! Newcomers & Guests are encouraged to attend!			80 CL S2 (with buffet)	Atlanta 1,2,3 (Level 1)		
7:00 am - 7:50 am	Distribution SC Leaders Coordination Closed breakfast meeting, by invitation of	nly	S. Shull	16 BD	Atlanta 5 (Level 1)		
7:00 am - 8:00 am	Breakfast - Attendees (no spouses/companions please) 272 RT (8/tbl)				Grand Ballroom AB (Level 3)		
8:00 am - 9:30 am	Breakfast - Spouses/Companions (no mee	ting attend	lees please)		Fandangles Restaurant (Level 3)		
9:15 am - 4:00 pm	<u>Spouses/Companions Tour</u> : "What Dreams Are Made Of"; MLK Memorial, J. Carter Library, etc. With lunch Advance registration required. Limited attendance. See flyer for details Bus departs at <u>front of hotel</u> at 9:15 am, and returns by 4:00 pm.						
8:00 am - 9:15 am >	Opening Session All attendees are encouraged to attend See separate document for meeting age Attendance recorded as eligibility for Cor	nda mmittee m	S. Antosz embership	>550 MX S1	Capital Ballroom (Level 1)		
9:15 am - 9:30 am	Break (beverages only)			Georgia & Capita	l Pre-function		

^{**} Contact Ed Smith (edsmith@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 21 (continued)						
9:30 am - 10:45 am	WG Thermal Evaluation of Insulation Systems, Dry Type C57.12.60	Dry	C. Ballard	60 MX	Georgia 4,5	
9:30 am - 10:45 am	WG Submersible Transf. C57.12.24	UTNP	G. Termini	80 MX	Georgia 2,3	
9:30 am - 10:45 am	WG External Dielectric Clearances	DiTests	E. Davis	120 MX S2	Atlanta 1,2,3	
9:30 am - 10:45 am	WG Tertiary/Stabilizing Windings PC57.158	PCS	E. Betancourt	185 MX S3	Capital South	
9:30 am - 10:45 am	TF Consolidation of Oil Guides	IF	T. Prevost	185 MX S3	Capital Center	
9:30 am - 10:45 am				185 MX S3	Capital North	
10:45 am - 11:00 am	Break (beverages only)			Georgia & Capita	l Pre-function	
11:00 am - 12:15 pm	WG Ventilated Dry Type C57.12.51	Dry	S. Som	60 MX	Georgia 4,5	
11:00 am - 12:15 pm	WG PD Acoustic Detection C57.127	DiTests	D. Gross	80 MX	Georgia 2,3	
11:00 am - 12:15 pm	WG Overhead Distr. Transf. C57.12.20	Dist	A. Traut	120 MX S2	Atlanta 1,2,3	
11:00 am - 12:15 pm	WG Control Cabinets C57.148	Power	J. Watson	185 MX S3	Capital South	
11:00 am - 12:15 pm	WG Moisture in Insulation PC57.162	IL	T. Prevost	185 MX S3	Capital Center	
11:00 am - 12:15 pm	WG PCS Rev. to Test Code C57.12.90	PCS	M. Perkins	185 MX S3	Capital North	
12:15 pm - 1:30 pm	Lunch Meeting: Standards Development Re Everyone welcome to attend. All SC/WG/		J. Graham are highly enco	238 RT (7/tbl) uraged to attend.	Grand Ballroom AB (Level 3)	
	Doors open ~12:00 pm. Come early, get a Advance registration necessary. No pape				at the door.	
1:45 pm - 3:00 pm	WG Dry Type Gen. Require. C57.12.01	Dry	C. Ballard	60 MX	Georgia 4,5	
1:45 pm - 3:00 pm	WG Sec. Network Protectors C57.12.44	UTNP	M. Faulkner	80 MX	Georgia 2,3	
1:45 pm - 3:00 pm	WG 1-ph Padmount Dist Transf. C57.12.38	Dist	A. Ghafourian	120 MX S2	Atlanta 1,2,3	
1:45 pm - 3:00 pm	TF Thru-Fault Current Duration PC57.109	PCS	V. Mehrotra	185 MX S3	Capital South	
1:45 pm - 3:00 pm	WG Installation of Power Transf. C57.93	Power	M. Lau	185 MX S3	Capital Center	
1:45 pm - 3:00 pm	TF Audible Sound Revision to Test Code	PCS	R. Girgis	185 MX S3	Capital North	
3:00 pm - 3:15 pm	Break (beverages and treats)			Georgia & Capital Pre-function		
3:15 pm - 4:30 pm	WG Milli-amp Current Transf. C57.13.7	IT	H. Alton	60 MX	Georgia 4,5	
3:15 pm - 4:30 pm	SC HVDC Converter Transformers and Smoothing Reactors	HVDC	M. Sharp	80 MX	Georgia 2,3	
3:15 pm - 4:30 pm	WG 3-ph Padmount Dist Transf. C57.12.34	Dist	R. Stahara	120 MX S2	Atlanta 1,2,3	
3:15 pm - 4:30 pm	WG Natural Ester-Based Fluids C57.147	IF	P. McShane	185 MX S3	Capital South	
3:15 pm - 4:30 pm	WG Dielectric Freq. Response PC57.161	DiTest	A. Naderian	185 MX S3	Capital Center	
3:15 pm - 4:30 pm	WG Transformer Capability with Non-sinusoidal Loads PC57.110	PCS	R. Marek	185 MX S3	Capital North	
4:30 pm - 4:45 pm	Break (beverages only)			Georgia & Capita	l Pre-function	
4:45 pm - 6:00 pm				60 MX	Georgia 4,5	
4:45 pm - 6:00 pm	WG PD in Bushings & PT/CTs PC57.160	DiTests	T. Hochanh	80 MX	Georgia 2,3	
4:45 pm - 6:00 pm	WG Step-Voltage Regulators C57.15 / 60076-21	Dist	C. Colopy	120 MX S2	Atlanta 1,2,3	
4:45 pm - 6:00 pm				185 MX S3	Capital South	
4:45 pm - 6:00 pm	WG Life Extension C57.140	Power	P. Boman	185 MX S3	Capital Center	
4:45 pm - 6:00 pm	WG PCS Revisions to C57.12.00	PCS	T. Ansari	185 MX S3	Capital North	
	No Tooknigal Tours or Copiel Events Plans	1				

No Technical Tours or Social Events Planned

DATE/TIME	ACTIVITY	SUB- COM	ACTIVITY <u>CHAIR</u>	ROOM <u>CAP/ARR/AV</u>	MEETING <u>ROOM</u>		
	- Tuesday Breaks Sponsored by Delta	Star Inc.	**				
7:00 am - <u>12:00 pm</u>	Meeting Registration	272 RT (8/tbl)	Capital Pre-function				
7:00 am - 8:00 am	Breakfast - Attendees (no spouses/compan	Grand Ballroom AB					
8:00 am - 9:30 am	Breakfast - Spouses/Companions (no meet	ting attend	ees please)		Fandangles Rest.		
<u>7:00 am</u> - 7:50 am	EL&P Delegation (end-users only please) J. Murphy Breakfast Meeting; arrive early			36 CL (with buffet)	Georgia 6 (Level 1)		
9:15 am - 4:00 pm	 Spouses/Companions Tour: "Atlanta's Musi- Advance registration required. Limited at Bus departs at front of hotel at 9:15 am, a 	ttendance.	See flyer for de	-Cola, CNN Studio, tails.	etc. With lunch.		
	WG Functional Life Tests, De-energized Tap Changers (DETC) PC57.157	Power		. Will not meet.			
8:00 am - 9:15 am	WG Station Service Voltage Transformers	IT	D. Wallace	60 MX	Georgia 4,5		
8:00 am - 9:15 am	TF Limits for Winding Insulation PF/Resistance	DiTests	S. Tarlapally	80 MX	Georgia 2,3		
8:00 am - 9:15 am	WG Enclosure Integrity C57.12.28, C57.12.29, C57.12.31, C57.12.32	Dist	D. Mulkey	120 MX S2	Atlanta 1,2,3		
8:00 am - 9:15 am	TF Composite Bushings	Bush	J. Graham	185 MX S3	Capital South		
8:00 am - 9:15 am	WG PD Detection in Dry Type Transformers C57.124	Dry	T. Prevost	185 MX S3	Capital Center		
8:00 am - 9:15 am	WG Revision to C57.12.10	Power	G. Hoffman	185 MX S3	Capital North		
9:15 am - 9:30 am	Break (beverages only)			Georgia & Capita	l Pre-function		
	TF Committee History	Mtgs Will not meet at this meeting.					
9:30 am - 10:45 am	WG Tests for Instrument Transf. C57.13.5	IT	P. Riffon	60 MX	Georgia 4,5		
9:30 am - 10:45 am	WG 1-Ph Submersible Transf. C57.12.23	UTNP	A. Traut	80 MX	Georgia 2,3		
9:30 am - 10:45 am				120 MX S2	Atlanta 1,2,3		
9:30 am - 10:45 am	WG GSU Bushings PC57.19.04	Bush	S. Digby	185 MX S3	Capital South		
9:30 am - 10:45 am	WG Shunt Reactors C57.21	PCS	S. Som	185 MX S3	Capital Center		
9:30 am - 10:45 am	WG Wind Turbine Transf. P60076-16	PCS	D. Buckmaster	185 MX S3	Capital North		
10:45 am - 11:00 am	Break (beverages only)			Georgia & Capital Pre-function			
	WG Phase Shift Transf. 60076-57-1202	Power	Will not meet.	Will update status	in SC meeting.		
11:00 am - 12:15 pm	TF PLC Caps & CCVTs (currently C93.1)	IT	Z. Roman	60 MX	Georgia 4,5		
11:00 am - 12:15 pm	WG Liquid-immersed Secondary Network Transformers C57.12.40	UTNP	B. Klaponski	80 MX	Georgia 2,3		
11:00 am - 12:15 pm	WG Semiconductor Power Rectifier Transformers C57.18.10	PCS	S. Kennedy	120 MX S2	Atlanta 1,2,3		
11:00 am - 12:15 pm	WG Distrib. Transf. Bushings PC57.19.02	Bush	S. Shull	185 MX S3	Capital South		
11:00 am - 12:15 pm				185 MX S3	Capital Center		
11:00 am - 12:15 pm	WG Loss Evaluation Guide C57.120	PCS	R. Verdolin	185 MX S3	Capital North		
12:15 pm - 1:30 pm	Awards Luncheon Doors open ~12:00 pm. Come early, get	a good se	D. Platts eat, and start eati	238 RT (7/tbl) ng.	Grand Ballroom AB (Level 3)		
	 Advance registration necessary. No paper All meeting attendees are encourage 						
	help us recognize our accomplishme	ents.					
1:45 pm - 3:00 pm	WG 3-ph Transf. Connections PC57.105	PCS	A. Bromley	60 MX	Georgia 4,5		
1:45 pm - 3:00 pm	TF Tap-Changer C57.131 / 60214-1	Power	C. Colopy	80 MX	Georgia 2,3		
1:45 pm - 3:00 pm	WG Distr. Substation Transf. C57.12.36	Dist	J. Murphy	120 MX S2	Atlanta 1,2,3		
1:45 pm - 3:00 pm				185 MX S3	Capital South		
1:45 pm - 3:00 pm	WG Revision to Low Frequency Tests	DiTests	B. Poulin	185 MX S3	Capital Center		
1:45 pm - 3:00 pm	WG DPV Grid Transformers PC57.159	PCS	H. Shertukde	185 MX S3	Capital North		
3:00 pm - 3:15 pm	Break (beverages and Pretzels!)			Georgia & Capita	l Pre-function		

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

		SUB-	ACTIVITY	ROOM	MEETING			
DATE/TIME	<u>ACTIVITY</u>	COM	COM CHAIR CAP/ARR/AV		<u>ROOM</u>			
Tuesday, March 22 (continued)								
	WG Test Data Reporting C57.12.37	Dist	Work complete	. Will not meet.				
3:15 pm - 4:30 pm				60 MX	Georgia 4,5			
3:15 pm - 4:30 pm	WG Tap-Changer Applic. Guide 60214-2	Power	C. Colopy	80 MX	Georgia 2,3			
3:15 pm - 4:30 pm	Standard Terminal Markings C57.12.70	Stds	ds S. Shull 120 MX S2		Atlanta 1,2,3			
3:15 pm - 4:30 pm	WG Std Require for Bushings C57.19.01	Bush	h S. Zhang 185 MX S3		Capital South			
3:15 pm - 4:30 pm	WG Application of High-Temp Insulation IL R. Wicks 185 MX S3 Materials, IEEE P-1276		Capital Center					
3:15 pm - 4:30 pm	TF Switching Transients Induced by Transf/Breaker Interaction PC57.142	PCS	J. McBride	185 MX S3	Capital North			
4:30 pm - 4:45 pm	Break (beverages only)		Georgia & Capital Pre-function					
	TF for Cross Reference of IEEE to IEC	Stds	Will not meet at	et at this meeting.				
4:45 pm - 6:00 pm	WG Dry Type Test Code C57.12.91	Dry	D. Foster	60 MX	Georgia 4,5			
4:45 pm - 6:00 pm				80 MX	Georgia 2,3			
4:45 pm - 6:00 pm	WG Tank Pressure Coordinat. C57.12.39	Dist	C. Gaytan	120 MX S2	Atlanta 1,2,3			
4:45 pm - 6:00 pm	TF Short Circuit Design Criteria	PCS	D. Buckmaster	185 MX S3	Capital South			
4:45 pm - 6:00 pm	WG Revision to Gas Guide C57.104	IF	R. Ladroga	185 MX S3	Capital Center			
4:45 pm - 6:00 pm	WG Revisions to Impulse Test Sections of C57.12.00 and C57.12.90	DiTests	P. Riffon	185 MX S3	Capital North			

No Technical Tours or Social Events Planned

Wednesday, March 23 -- Wednesday Breaks Sponsored by DuPont **

	No Meeting Registration, No Technical To	ours, No Spo	ouse/Companion ⁻	Tours			
7:00 am - 8:00 am	Breakfast - Attendees (no spouses/comp	se)	272 RT (8/tbl)	Grand Ballroom AB			
8:00 am - 9:30 am	Breakfast - Spouses/Companions (no me	eting attend	ees please)		Fandangles Rest.		
<u>7:00 am</u> - 7:50 am	SC Meetings Planning Mtgs G. Anderson		24 CL (with buffet)	Georgia 6 (Level 1)			
<u>7:00 am</u> - 8:30 am	IEC TC-14 Technical Advisory Group Breakfast Meeting; arrive early All interested individuals welcome		P. Hopkinson	80 CL S2 (with buffet)	Atlanta 1,2,3		
8:00 am - 9:15 am	SC Instrument Transformers	IT	R. McTaggart	80 MX S2	Atlanta 4,5		
8:00 am - 9:15 am	SC Insulation Life	IL	S. Kennedy	350 MX S3	Capital Ballroom		
9:15 am - 9:30 am	Break (beverages only)			Capital Pre-function			
9:30 am - 10:45 am	SC Bushings	Bush	P. Zhao	180 MX S3	Atlanta 1,2,3		
9:30 am - 10:45 am	SC Distribution Transformers	Dist	S. Shull	350 MX S3	Capital Ballroom		
10:45 am - 11:00 am	Break (beverages only)			Capital Pre-function			
11:00 am - 12:15 pm	SC UG Transf. & Network Protectors	UTNP	D. Mulkey	80 MX S2	Atlanta 4,5		
11:00 am - 12:15 pm	SC Dielectric Tests	DiTests	M. Franchek	350 MX S3	Capital Ballroom		
12:15 pm - 1:30 pm	Lunch (on your own)						
1:30 pm - 2:45 pm	SC Dry Type Transformers	Dry	C. Johnson	80 MX S2	Atlanta 4,5		
1:30 pm - 2:45 pm	SC Power Transformers	Power	J. Watson	350 MX S3	Capital Ballroom		
2:45 pm - 3:00 pm	Break (beverages and treats)			Capital Pre-function			
3:00 pm - 4:15 pm	SC Insulating Fluids	IF	D. Wallach	180 MX S3	Atlanta 1,2,3		
3:00 pm - 4:15 pm	SC Performance Characteristics	PCS	E. teNyenhuis	350 MX S3	Capital Ballroom		
4:15 pm - 4:30 pm	Break (beverages only)		Capital Pre-function				
4:30 pm - 5:45 pm	SC Standards	Stds	J. Murphy	350 MX S3	Capital Ballroom		
6:00 pm - 10:00 pm	Dinner Social: Atlanta History Center. Acc Doors of museum open at 6:30 pm; wit Paper tickets will not be provided. Adn Buses begin loading at front of the hote After the event, buses begin loading at	h buffet dinn nission verifi el at 6:00 pm	ner served at 7:30 ed with namebado n, <u>last bus departs</u>	pm. Cash bar proges as you enter that 6:45 pm.	ovided. ne museum.		

^{**} Contact Ed Smith (edsmith@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 equipment operates/syncs correctly.

> -- 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)

SUBCOMMITTEES							
Bush	Bushings	HVDC	HVDC Converter Transformers	Mtgs	Meetings		
DiTests	Dielectric Tests		and Smoothing Reactors		Power Transformers		
Dist	Distribution Transformers	IF	Insulation Fluids	UTNP	Underground Transformers		
Dry	Dry Type Transformers	IL	Insulation Life		and Network Protectors		
		IT	Instrument Transformers	Stds	Standards		

Thursday, March 24

	No Meeting Registration, No Spouses/Companions Tours, No EPRI TF Meeting				
7:00 am - <u>9:30 am</u>	Breakfast - Attendees & Spouses/Companions Combined Breakfast on Thursday!	300 RT (8/tbl)	Garden Courtyard (Poolside)		
8:00 am - 9:15 am	Technical Presentation #1: "DGA Analysis, New Tools Such As The Duval Pentagon", by M. Duval, et al. See flyer on website	400 MX S1	Capital Ballroom (Level 1)		
9:15 am - 9:30 am	Break (beverages only)	Capital Pre-funct	Capital Pre-function		
9:30 am - 10:45 am	Technical Presentation #2: "Application Guide for DPV Transformers" by C. Gaytan, S. Kennedy, H. Shertukde. See flyer on website.	400 MX S1	Capital Ballroom		
10:45 am - 11:00 am	Break (beverages only)	Capital Pre-function			
> 11:00 am - 12:00 pm	Closing Session S. Antosz All attendees are encouraged to attend See separate document for meeting agenda	400 MX S1	Capital Ballroom		
	Lunch on your own				
12:30 pm - 8:00 pm	Technical Tour: Power Partners, Inc. Transformer Factory; Athens, Ge-Bus departs front of hotel at 12:30 pm; returns by 8:00 pm. Box lun-Indicate interest to attend tour during on-line meeting registration, o contact Ms. Meghan Monty at <meghan.monty@powerpartners-usa< td=""><td>ch on bus; dinner or r</td><td>on return to hotel.</td></meghan.monty@powerpartners-usa<>	ch on bus; dinner or r	on return to hotel.		

Friday, March 25

No Committee Meetings, No Technical Tours, No EPRI TF Meeting

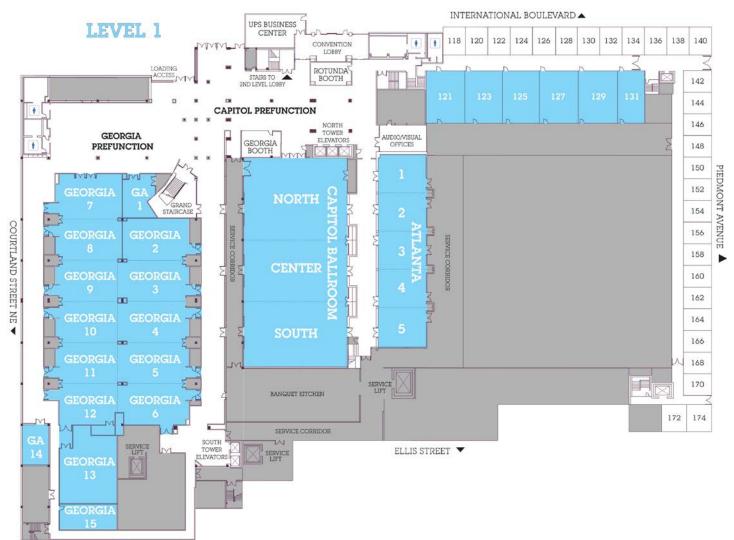
FUTURE COMMITTEE MEETINGS

Fall 2016 - October 23-27; Vancouver, B.C. Canada Spring 2017: March 26-30 or April 2-6; Location TBD Fall 2017: October 15-19 or 22-26; Location TBD

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

Sheraton Atlanta Hotel

165 Courtland Street NE; Atlanta, Georgia 30303 USA (404) 659-6500



Level 3

Grand Ballroom: breakfasts and lunches

Fandangles Restaurant: Spouses/Companions Breakfasts

Level 2

Hotel Lobby

Garden Courtyard, Poolside: Sunday Reception & Friday Breakfast

Level 1

Meeting Registration Capital Ballroom (North, South & Center) Atlanta Rooms Georgia Rooms Suite #123