



# INSULATED CONDUCTORS COMMITTEE

Established 1947

Fall 2016 Meeting, Scottsdale, AZ

FINAL AGENDA – 10/14/16

## Administrative Activities

SATURDAY, OCTOBER 29, 2016			
TIME	ACTIVITY	CHAIRS	ROOM
12:00 PM – 2:00 PM	<b>Pre-Con Meeting with Hotel</b> (Frentzas, Bascom, Champion, Arnold, Hiivala, Wentzel, Hotel)	Frentzas / Bascom	Executive Boardroom
2:00 PM – 5:00 PM	<b>ExCom<sup>1</sup> Meeting - Executive Session</b> (Frentzas, Bascom, Champion, Arnold, Hiivala, and Wentzel)	Frentzas / Bascom	Executive Boardroom
SUNDAY, OCTOBER 30, 2016			
9:00 AM – 11:00AM	<b>Treasurer's Meeting -</b> (Bascom, Champion, Arnold)	Bascom	Executive Boardroom
12:00 PM – 3:45PM	<b>AdCom<sup>2</sup> Opening Meeting -</b> (Frentzas, Bascom, Champion, Arnold, Hiivala, Walton, Mueller, Szyszko, Campbell, Geene, DePriest, Maldonado, Fenger, Cherukupalli, Smalley, Gulski, Mosier, Petzold, Merando, Clark, Madden, von Herrmann, Carson, Orton, Wen, Wentzel)	Frentzas / Bascom	Bouchon
4:00 PM – 5:00PM	<b>Advisory Committee Meeting -</b> (Smalley, Madden, Frentzas, Bascom, Orton, Champion, past ICC Chairs)	Smalley / Madden	Bouchon
MONDAY, OCTOBER 31, 2016			
7:00 AM – 7:45 AM	<b>All Chairs Meeting -</b> (Subcommittee, Working Group, Discussion Group, Transnational, Education, and Standards: Chairs and Vice-Chairs)	Frentzas / Bascom	Bouchon
7:45 AM – 8:00AM	All Chairs Mtg. – Sub A Breakout	Walton / Wen	Sonora
	All Chairs Mtg. – Sub B Breakout	Szyszko / Campbell	Chaparral
	All Chairs Mtg. – Sub C Breakout	Mueller / Martinez	San Carlos
	All Chairs Mtg. – Sub D Breakout	Maldonado / Depriest	Rio Verde
	All Chairs Mtg. – Sub F Breakout	Fenger / Cherukupalli	Bouchon
	All Chairs Mtg. – Sub G Breakout	Petzold / Gulski	Bouchon
TUESDAY, NOVEMBER 1, 2016			
7:00 AM – 7:45AM	<b>Training Session – IEEE PES Insulated Conductors Committee Policies and Procedures for Working Groups</b>	Hiivala	Bouchon
WEDNESDAY, NOVEMBER 2, 2016			
7:00 AM – 7:45AM	<b>Training Session – IEEE Standards and Robert's Rules of Order</b>	Hiivala	Bouchon
12:00 PM – 2:00 PM	<b>AdCom Wrap-Up Meeting -</b> (Frentzas, Bascom, Champion, Arnold, Hiivala, Walton, Mueller, Szyszko, Campbell, Geene, DePriest, Maldonado, Fenger, Cherukupalli, Smalley, Gulski, Mosier, Petzold, Merando, Clark, Madden, von Herrmann, Carson, Orton, Wen, Wentzel)	Frentzas / Bascom	Bouchon

Please note that only those meetings listed on this schedule are sponsored or co-sponsored by ICC.

<sup>1</sup> ExCom is the Executive Committee.

<sup>2</sup> AdCom is the Administrative Committee.

ICC Office – Executive Boardroom



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## ICC MEETING SCHEDULE

SUNDAY, OCTOBER 30, 2016			
TIME	ACTIVITY	CHAIRS	ROOM
12:30 – 4:00PM	<b>Registration</b> (On-Site Registration & Registration Package Pickup)	Arnold / B. Taylor	South Foyer
4:00 – 4:30PM	<b>Insulated Conductors Committee ORIENTATION</b> <b>Are you new? Come and learn about the ICC, meet some new people, and maybe get some ICC SWAG.</b>	Champion	Chambers
4:00 – 5:00PM	<b>Social for ICC Women Engineers</b> <b>Network with other women engaged in the engineering profession. Introverts and extroverts – all are welcome!</b>	Mosier / Flenniken	Prescott
4:00 – 5:00PM	<b>International/Diversity Social for ICC Engineers</b> A global gathering for ICC attendees to network with each other and international new comers to learn more about ICC and seek assistance	Jiang / Wen	
12:30 – 5:00PM	<b>Table Top Displays</b>		<b>Grand Ballroom Foyer</b>
5:00 – 7:00PM	<b>RECEPTION – All Attendees</b>		<b>North Pool</b>

### General Meeting Notes

\* Breakout Working Group (WG) and Discussion Group (DG) meetings are held concurrent with Subcommittee Sessions, in different rooms as noted. Groups ending with a “W” (e.g. D11W) are working groups with a PAR and are working to complete or revise a standard or guide. Groups ending with a “D” (e.g. B17D) are discussion groups, discussing various things related to their title. Attendees are welcome to attend all general session, subcommittee, discussion group, and working group meetings.

### Key – Schedule Color Coding

Color	Event Type	Color	Event Type	Color	Event Type	Color	Event Type
	Administrative Meetings (Officers, Chairs, Vice-Chairs)		Registration		Working /Discussion Group Meetings - Break Outs		Meals / Snacks
	Author / Presenter Presentation Preload Times		Exhibits / Table Top Displays by Vendors		Training Sessions		Meals with Technical Program

### Companion/Spouse Activities/Breakfast

Activities are planned for spouses/companions each day of the conference. Flagstaff A is assigned to these activities. This room is also available for impromptu get togethers for those not interested in attending planned off-site events. Please check the brochure available on the website at [http://www.pesicc.org/iccwebsite/meetings/2016Fall/Fall\\_2016.htm](http://www.pesicc.org/iccwebsite/meetings/2016Fall/Fall_2016.htm) or at the registration desk for specific activities and off-site events. Breakfast is included with spouse/companion registration and is held daily (Monday thru Wednesday) in the Flagstaff A.

### Attendee Breakfast:

A breakfast is provided each meeting day (Monday thru Wednesday morning) for attendees between 7:00AM and 8:00AM Breakfast for this meeting is served in West Forum (see hotel layout map at the end of this document).

### Latest Info:

See the Bulletin Boards in the Registration area for specifics on events or for last minute changes.



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## ICC MEETING SCHEDULE

### MONDAY, OCTOBER 31, 2016 - AM SESSIONS

TIME	GROUP	ACTIVITY	CHAIRS	ROOM	AGENDA
7:00 AM – 8:00 AM		Attendee Breakfast	Frentzas / Bascom	West Forum	
8:00 AM – 9:30 AM		Spouse / Companion Breakfast	Frentzas	Flagstaff A	
7:00AM-8:00AM		<b>All Chairs Meeting -</b> (For Subcommittee, WG, DG, Education, Communications, and Standards Chairs & Vice-Chairs)	Frentzas / Bascom	Bouchon	ICC Meeting, Subcommittee, WG/DG Operational Announcements
7:00AM-8:00AM		<b>Presentation Pre-load and Test</b> All Presenters MUST Pre-load	T. Richardson	South Center Ballroom	Subcommittee presentation loadings on ICC Computer
7:00AM-12:00PM		Registration	Arnold	South Foyer	On-Site Registration & Registration Package Pickup
7:30AM-5:30PM		Table Top Displays		Grand Ballroom Foyer	Product/Services Exhibitions
8:00AM-9:00 AM		<b>OPENING SESSION</b> All Attendees	Frentzas / Bascom	South Center Ballroom	ICC Meeting Announcements, IEEE, PES & ICC Awards
9:15 AM - 12:30 PM	D	<b>GENERATING STATION AND INDUSTRIAL CABLES</b>	Maldonado / Depriest	South Center Ballroom	Technical Presentations
<b>BREAKOUT WG/DG MEETINGS</b> *(see notes on page 2)					
9:15 AM – 10:30 AM	A13W	Accelerated Aging Tests for 5-35 kV Extruded Cables using Water Tanks (1407)	Walton / Wald	San Carlos	Continue work on revision of IEEE 1407
	A20D	Low Voltage Cable Systems Rated ≤ 600V	Brigandi / Hawig	Sonora	Presentation and General Discussions
	B10W	Guide for Cable Terminations (1637)	B. Taylor / Jibril	Rio Verde	Review Guide before going to ballot
	B17W	Guide for Faulted Circuit Indicators (1610)	Angerer / Reed-Harmel	Sedona	Review Balloting of P1610 and 495 DG meeting for renewal of IEEE495-2007
	C03D	Magnetic Fields of Underground Cables	Hunt / Clark	Palomas	Presentations & discuss guide for EMF mitigation methods
	C Adhoc	Seismic Performance Assessment of Transmission Cables	Cherukupalli/Orton	Coronado	Presentations and open discussion
10:30 AM – 10:45 AM	Break	Refreshments / Snacks	Frentzas	Grand Ballroom Foyer	
10:45 AM - 12:30 PM	A14D	Power Cable Standards	Smalley / B. Richardson	San Carlos	Presentation on History of Thicknesses of Insulation Layer along with updates from IEC, ICEA, and AEIC.
	B09W	Guide for Cable Cleaning Solvents (1493)	Lauxman / Fosse	Sonora	Continue to revise IEEE guide 1493
	C AdHoc	Re-utilizing Steel Pipes to Replace Pipe-type Cables with Extruded Cables	Curci / Nishioka	Rio Verde	presentations plus continued discussion on converting pipe cables to XLPE
	C11W	Submarine Cables (1120)	Orton / Campilii	Sedona	Revision of IEEE Standard 1120 on Submarine Cables
	F06D	DC Field Testing of Extruded Cable Systems	Larzelere/ Rickman	Palomas	Discussion of the Process Forward



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MONDAY, OCTOBER 31, 2016 - PM SESSIONS					
TIME	GROUP	ACTIVITY	CHAIRS	ROOM	AGENDA
12:30 PM - 2:00 PM		<b>NETWORKING LUNCHEON</b> <i>(Must Register for This)</i>	Orton / Boone	West Forum	
2:00 AM – 5:30 PM	A	<b>CABLE CONSTRUCTION &amp; DESIGN</b>	Walton / Wen	South Center Ballroom	Technical Presentations
<b>BREAKOUT WG/DG MEETINGS</b> <sup>*(see notes on page 2)</sup>					
2:00 PM - 3:15 PM	B06W	Guide for Connecting Surge Arresters to Protect Shielded Cable Systems (C62.22.1)	Jibril / Makal	San Carlos	Final edits to Guide
	B24W	495 Faulted Circuit Indicators – IEEE 495	Weaver/ Vacant	Sonora	Review PAR and timeline for completing improvements to standard
	C13D	Installation of Cables Using Trenchless Techniques	Goyette / Williams	Rio Verde	Presentation and work on white paper
	D07D	Evaluation of Cables For Class 1E Circuits In Nuclear Generating Stations (1186)	Watson / DePriest	Sedona	PAR Development
	F07W	Guide on Neutral Corrosion in MV Underground Cables (1617)	Buchholz / Vacant	Palomas	Reviewing proposed revisions by the writing group to Std 1617
3:15 PM – 3:30 PM	Break	Refreshments / Snacks	Frentzas	Grand Ballroom Foyer	
3:30 PM – 5:30 PM	B03W	Exposed Semi-Con Shields Test (592)	T. Richardson / Kamel	San Carlos	Discuss and approve the IEEE-592 draft for balloting
	B16W	Separable Insulated Connectors (386)	Hughes / Vacant	Sonora	Decide if we will attempt to overhaul switching and fault-closure for the 2026 revision
	C31D	HPFF/HPGF Pipe Type Cable Systems	Mueller / Koonce	Rio Verde	Presentation and open discussions on HPFF
	D20D	Guide for Nuclear Cables	Depriest / Fleming	Sedona	PAR Development.
	D22W	Cables Systems for Hazardous Locations on Land Drilling Rigs(P2470)	Laudicina / Bayer	Palomas	Start development of standard.



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## ICC MEETING SCHEDULE

### TUESDAY, NOVEMBER 1, 2016 - AM SESSIONS

TIME	GROUP	ACTIVITY	CHAIRS	ROOM	AGENDA
7:00 AM – 8:00 AM		Attendee Breakfast	Frentzas / Bascom	West Forum	
8:00 AM – 9:30 AM		Spouse / Companion Breakfast	Frentzas	Flagstaff A	
7:00 AM – 8:00 AM		<b>Presentation Pre-load and Test</b> All Presenters MUST Pre-load	<b>T. Richardson</b>	<b>South Center Ballroom</b>	<b>Subcommittee presentation loadings on ICC Computer</b>
7:00 AM - 8:00 AM		<b>Training Session (General Membership)</b> (Open to all - IEEE PES Insulated Conductors Committee Policies and Procedures for Working Groups)	<b>Hiivala</b>	<b>Bouchon</b>	<b>IEEE PES Insulated Conductors Committee Policies and Procedures for Working Groups</b>
7:00 AM - 11:00 AM		Registration	Arnold	South Foyer	On-Site Registration
7:30 AM - 5:30 PM		Table Top Displays		Grand Ballroom Foyer	Product/Services Exhibitions
8:00 AM - 12:00 PM	<b>B</b>	<b>CABLE ACCESSORIES</b>	Szysko / Campbell	South Center Ballroom	Technical Presentations
<b>BREAKOUT WG/DG MEETINGS</b> <small>(see notes on page 2)</small>					
8:00 AM - 10:00 AM	<b>A07W</b>	Selecting/Testing Jackets for Underground Cables (532)	Caronia / Joseph	<b>San Carlos</b>	Review, Discuss and Agree on Working Group edits to the IEEE guide P532
	<b>C30W</b>	Life Extension of Power Cables in the Field (1879)	Geene / Vacant	<b>Sonora</b>	Trial-Use Guide for Injecting Cables in the Field
	<b>C36D</b>	Real Time and Dynamic Current Rating	Grodzinski / Chaaban	<b>Rio Verde</b>	Discussion of the latest version of the future guide
	<b>D15W</b>	Flame Propagation Testing (1202)	Stansberry / Hills	<b>Sedona</b>	PAR Development.
	<b>F04W</b>	Partial Discharge Testing in the Field (400.3)	Levine / Walton	<b>Palomas</b>	Decide on applied test voltage values
10:00 AM – 10:15 AM	<b>Break</b>	Refreshments / Snacks	Frentzas	<b>Grand Ballroom Foyer</b>	
10:15 AM - 12:00 AM	<b>A06D</b>	Accelerated Electrical Aging	Wald / Caronia	<b>San Carlos</b>	Crow AMSAA, Ageing under DC
	<b>A10D</b>	Conductors	Joy / Liu	<b>Sonora</b>	Discussion on cable and conductor improvements
	<b>C29W</b>	Induced Voltage Work Procedures (1727)	Uddin / Argaut	<b>Rio Verde</b>	Guide Q & A with CIGRE B1.44 and a presentation by CIGRE B1.44
	<b>C39D</b>	Submarine Cables	Orton / Campilli	<b>Sedona</b>	Discussion on submarine & offshore cables
	<b>D06W</b>	IEEE Guide for Installation Fiber-Optic Cables (1428)	Konnik / Vacant	<b>Palomas</b>	Initiate revision of guide
	<b>D18W</b>	Installation Guide for Fire-Rated Circuit Integrity Cables in Petro & Chem Ind. (1810)	Shoshani / Bayer	<b>Coronado</b>	Review ballot comments.



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### TUESDAY, NOVEMBER 1, 2016 - PM SESSIONS

TIME	GROUP	ACTIVITY	CHAIRS	ROOM	AGENDA
12:15 PM - 2:00 PM	G	TRANSNATIONAL LUNCHEON (Must Register for This)	Petzold / Gulski	West Forum	International Meetings Announcements and Technical Presentations
2:00 PM - 5:30 PM	C	CABLE SYSTEMS	Mueller/Martinez	South Center Ballroom	Technical Presentations
<b>BREAKOUT WG/DG MEETINGS</b> <sup>(see notes on page 2)</sup>					
2:00 PM - 3:15 PM	A16D	Characteristics of EPR Cables	Fleming / Vacant	San Carlos	Presentations and Discussions
	B23W	Transmission Cable Joints & Terminations (Replaces IEEE 48 & 404)	Jovanovic / Martinez	Rio Verde	Meeting of a Discussion Group on Transmission IEEE 48 and 404 documents for Terminations and Joints
	D03W	Select/Specify Petro-Chem Cables (1242)	Maldonado / Bow	Sedona	Continue ballot resolution
	D08W	IEEE 634, Cable Penetration Fire Test	Taylor / Stansberry	Palomas	PAR development.
	F11W	Constant Voltage AC Field Testing of Cable Systems (P1614)	Fenger / Eri	Coronado	Discussion of content of first draft
3:15 PM – 3:30 PM	Break	Refreshments / Snacks	Frentzas	Grand Ballroom Foyer	
3:30 PM - 5:30 PM	B01W	Cable Termination Standard (48)	B. Taylor / Norris	San Carlos	Continue to Review Standard before going to ballot
	B12W	Guide for Investigating & Analyzing Shielded Power Cable Failures on Sys Rated 5kV - 46kV (1511 & 1511.1)	Bader / Ayres	Sonora	Briefly review outline for proposed content and discuss organization and layout of proposed guide.
	D05W	Station Cable Installation Criteria (1185)	Merando / Bloethe	Rio Verde	Detailed review of revised draft of P1185.
	F12W	Guide for Fault Locating on Shielded Power Cables (1234)	Mosier / Vacant	Sedona	Review proposed flowchart to help guide user through the document; discuss new CIGRE guide for fault locating.
	F10D	Diagnostic Testing for Cable Joints & Terms	Jiang / Joy	Palomas	Presentations & discussion on diagnostic testing of cable accessories



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### WEDNESDAY, NOVEMBER 2, 2016 - AM SESSIONS

TIME	GROUP	ACTIVITY	CHAIRS	ROOM	AGENDA
7:00 AM – 8:00 AM		Attendee Breakfast	Frentzas / Bascom	West Forum	
8:00 AM – 9:30 AM		Spouse / Companion Breakfast	Frentzas	Flagstaff A	
7:00 AM – 8:00 AM		<b>Presentation Pre-load and Test</b> All Presenters MUST Pre-load	<b>T. Richardson</b>	<b>South Center Ballroom</b>	Subcommittee Presentation Loadings on ICC Computer
7:00 AM - 8:00 AM		<b>Training Session (General Membership)</b> (Open to all - IEEE Standards and Robert's Rules of Order)	<b>Hiivala</b>	<b>Bouchon</b>	<b>IEEE Standards and Robert's Rules of Order</b>
7:30 AM - 1:00 PM		<b>Table Top Displays</b>		<b>Grand Ballroom Foyer</b>	<b>South Foyer</b>
8:00 AM - 12:00 PM	<b>F</b>	<b>South Center Ballroom</b>	<b>Fenger / Cherukupalli</b>	<b>South Center Ballroom</b>	<b>Technical Presentations</b>
<b>BREAKOUT WG/DG MEETINGS</b> <small>(see notes on page 2)</small>					
8:00 AM - 10:00 AM	<b>A08W</b>	Tests for Compatibility of Cable Pulling Lubricants with Wire & Cable (1210)	McAuliffe / Elliott	<b>San Carlos</b>	Continue work on revision of standard 1210
	<b>B19W</b>	Cable Prep Techniques for Installing Accessories (1816)	Crotty / Smalley	<b>Sonora</b>	Review instructions for preparing PILC cables and changes to Title, Scope, and Purpose
	<b>C05W</b>	Guide to the Use of Gas-in-Fluid Analysis for Electric Power Cable Systems (1406)	Purnhagen / Johnson	<b>Rio Verde</b>	Continue working on finalizing P1406 guide document
	<b>C34D</b>	Mitigating Manhole Explosions	Black / Hanebuth	<b>Sedona</b>	Further development of Guide for Manhole Explosions
	<b>D21W</b>	Circuit Integrity of Fire Resistive Cables in Tunnels & Transit Apps (2412)	Conrad / Stansberry	<b>Palomas</b>	Continue development of standard
10:00 AM – 10:15 AM	<b>Break</b>	Refreshments / Snacks	Frentzas	<b>Las Olas Foyer</b>	
10:15 AM - 12:00 AM	<b>A19D</b>	Covered Conductors	T. Campbell / Nuckles	<b>San Carlos</b>	Continue discussion on topics for proposed covered conductor guide.
	<b>B22W</b>	Distribution Cable Joints & Terminations (Replaces IEEE 48 & 404)	Madden / Norris	<b>Sonora</b>	Family of products discussion and ongoing harmonization work
	<b>C Ad Hoc</b>	HVDC Cable Systems	Busby / Vacant	<b>Rio Verde</b>	Presentation & Discussions on HVDC cable systems
	<b>C25W</b>	Soil Thermal Resistivity Measurements (442)	N. Patel / Cherukupalli	<b>Sedona</b>	Discuss next steps for Thermal Resistivity & Stability Guide
	<b>D12D</b>	Plant Life Extension	Depriest / Rasmussen	<b>Palomas</b>	Continue discussions regarding feasibility of new standard.
	<b>G10D</b>	International Organizations	Zenger / Orton	<b>Coronado</b>	Update on Cigre SCs & B1 Cables. US activities plus WGs. Update on IEC. JTF Cigre/ICC.



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WEDNESDAY, NOVEMBER 2, 2016 - PM SESSIONS					
TIME	GROUP	ACTIVITY	CHAIRS	ROOM	AGENDA
12:00 PM - 1:00 PM		<b>EDUCATIONAL LUNCHEON</b> <i>(Must Register for This)</i>		<b>West Forum</b>	
1:00 PM - 5:00 PM		<b>EDUCATIONAL PROGRAM</b> <sup>1</sup>	<b>Mosier / Jajack</b>	<b>South Center Ballroom</b>	<b>High Voltage Cable Accessories</b>
3:00 PM – 3:15 PM	<b>Break</b>	Refreshments / Snacks	Frentzas	<b>South Center Ballroom</b>	

### NOTES:

<sup>1</sup>-0.4 CEUs granted for this session. You must register and attend in order to receive CEUs. To receive these credits towards a Florida PE License, you MUST provide Thomas Arnold with your FL PE License number prior to the session.



The Insulated Conductors Committee (ICC) utilizes an application called guidebook® that allows you mobile access to the meeting agenda!

You are encouraged to download the mobile guide with the complete ICC Fall 2016 Schedule to enhance your experience at the meeting. You'll be able to plan your day with a personalized schedule (including reminders), browse exhibitors, floor maps, and general info. The app is compatible with iPhones, iPads, iPod Touches and Android devices. Windows Phone 7 and Blackberry users can access the same information via the mobile site at <http://www.m.guidebook.com>. If you previously installed the Guidebook app:



- “X” out the last meeting
- From the app, select “Download Guides”
- Search for “ICC” under the Trade Shows & Events option
- Select the IEEE Insulated Conductors Committee (ICC) meeting

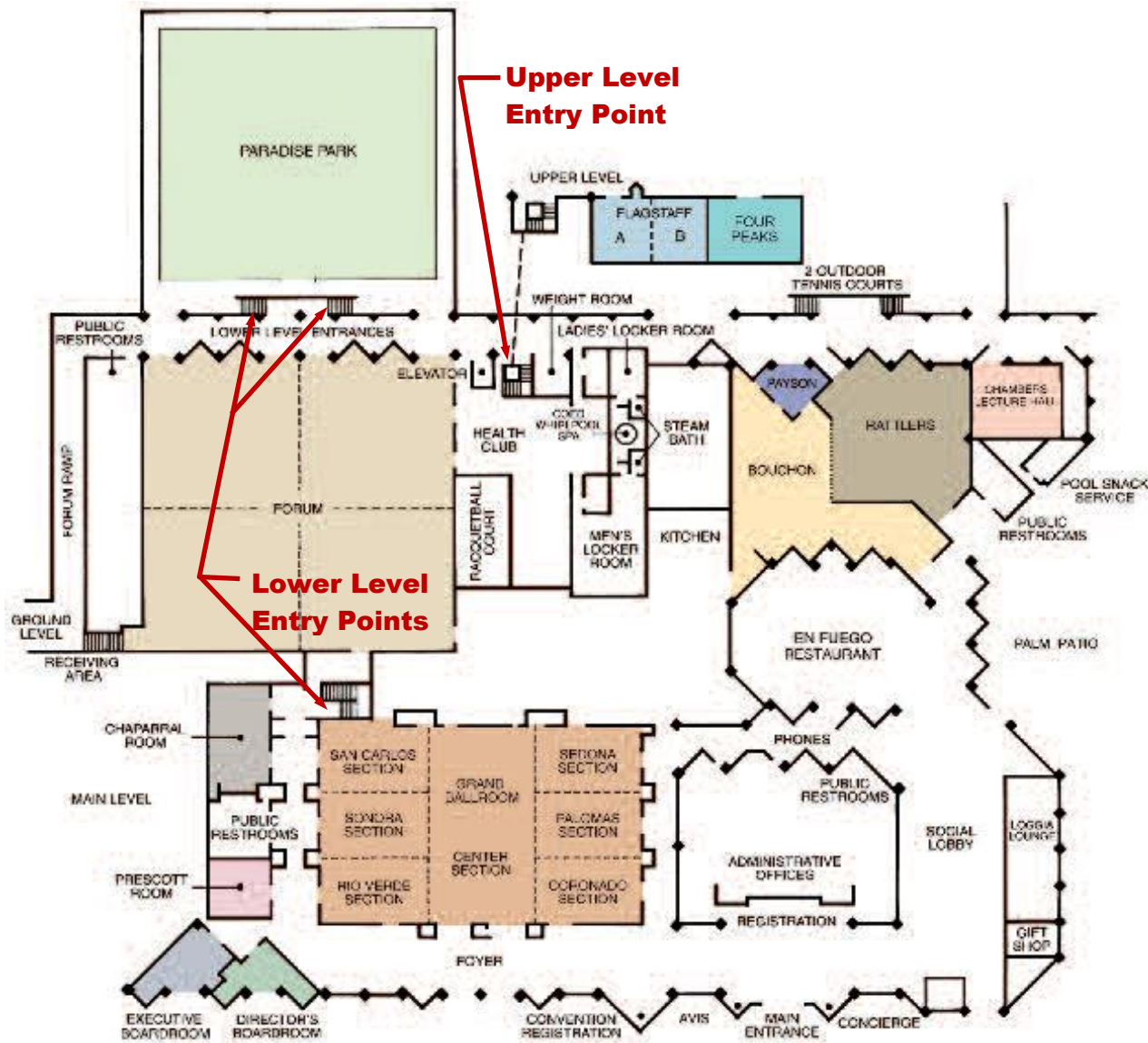
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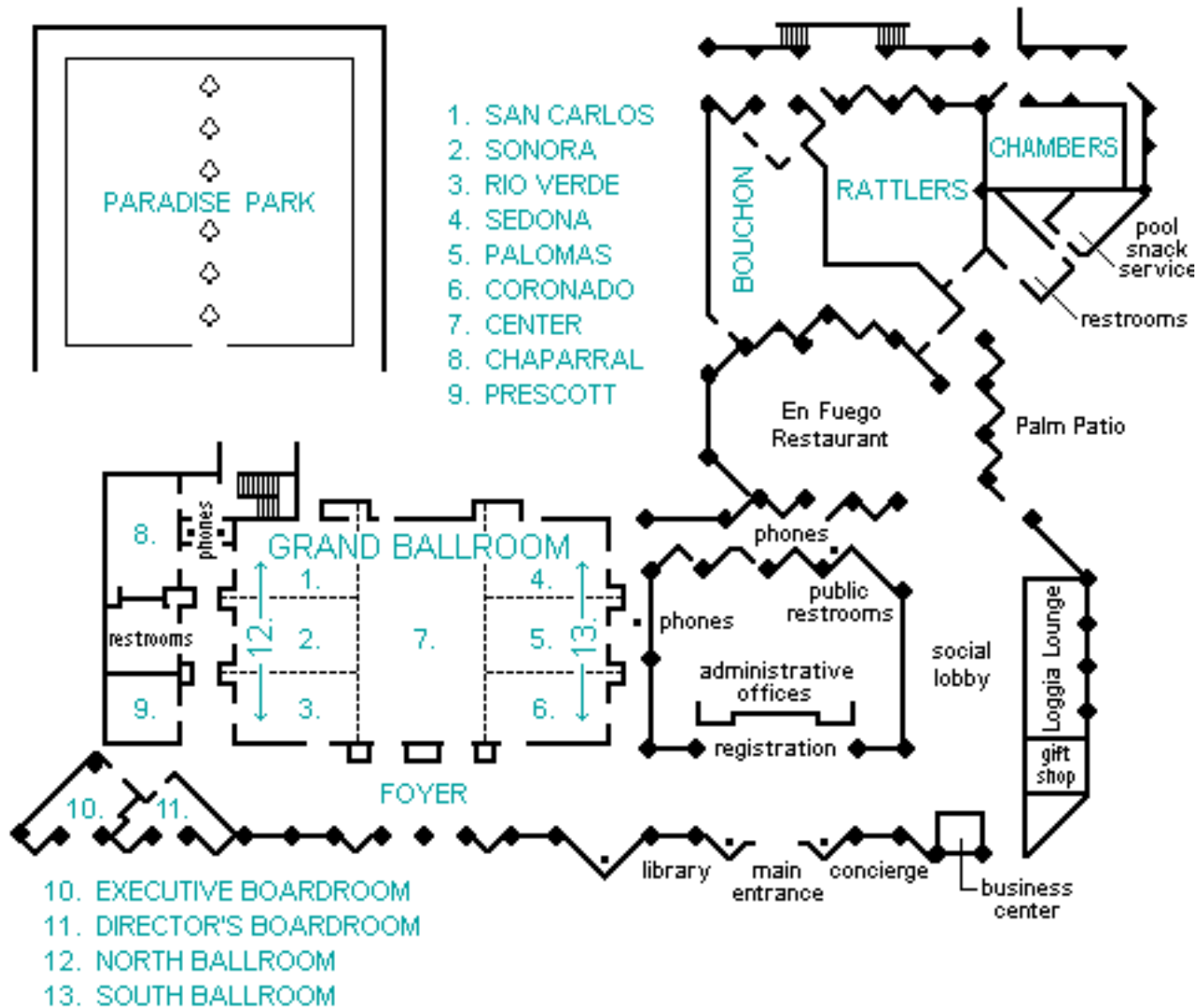
The guide will be listed under the "Download Guides" section of the application.





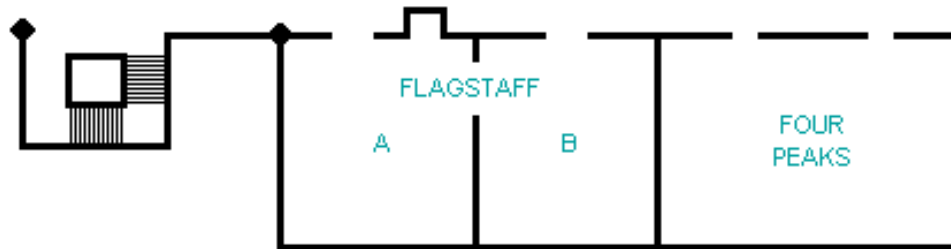


## DOUBLETREE PARADISE VALLEY/SCOTTSDALE RESORT - MAIN LEVEL





DOUBLETREE PARADISE VALLEY/SCOTTSDALE RESORT - UPPER LEVEL



DOUBLETREE PARADISE VALLEY/SCOTTSDALE RESORT - LOWER LEVEL

