



WELCOME
Spring 2010

INSULATED CONDUCTOR
COMMITTEE

JIM FITZGERALD
IMMEDIATE PAST CHAIR



ICC OFFICERS

CHAIR-----Rachel Moiser

VICE CHAIR/TREASURER-----

John Smith

VICE CHAIR/TREASURER ELECT

Tom Champion



ICC OFFICERS

**ICC CHAIR
RACHEL MOSIER**

**POWER DELIVERY
CONSULTANTS**



**ICC VICE CHAIR
JOHN SMITH**

GENERAL CABLE





ICC ORIENTATION

Agenda

- Where Does ICC Fit within IEEE?
- ICC Mission
- ICC Scope
- ICC Organization
- ICC Meeting Format
- How Can You Actively Participate in ICC?
- ICC Membership Requirements -
Recommendations



IEEE STANDARDS

48	CABLE TERMINATIONS	B1
400	FIELD AND EVALUATION	C16
400.1	DC HI POT	C17
400.2	LOW FREQUENCY	C18
400.3	FIELD TESTING	C19
404	JOINTS	B2
532	JACKETS	A7
1202	VERTICAL TRAY FLAME TEST	D15



INSULATED CONDUCTORS COMMITTEE

Established 1947

Spring 2010 Meeting, Nashville, TN

MONDAY, MARCH 22, 2010¹

TIME	GROUP	ACTIVITY	CHAIRS	ROOM
7:00 AM - 12:00 PM		Registration	Arnold	
7:00 AM - 8:00 AM		All Chairs Meeting (For Subcommittee, Working Group, Discussion Group, Transnational, Education, and Standards Chairs and Vice-Chairs)	Mosier/Smith	
7:30 AM - 8:15 AM		Presentation Pre-load and Test - All Presenters MUST Pre-load	Richardson	
7:30 AM - 5:30 PM		Table Top Displays		
8:15 AM - 9:40 AM		OPENING SESSION All Attendees	Mosier/Smith	
10:00 AM - 12:30 PM	A	CABLE CONSTRUCTION & DESIGN	Kong/Walton	
BREAKOUT WG/DG MEETINGS²				
10:00 AM - 11:00 AM	B06W	Guide for Connection of Surge Arrestors to Protect Insulated Shielded Cable Systems (P1299)	Reed-Hamei/Makal	
	B17D	Application Guide for Faulted Circuit Indicators	Angerer/Harness	
	C20W	Soil Thermal Stability	Campbell/Vacant	
	D17W	Std for Testing Circuit Integrity Cables Using Hydrocarbon Pool Fire Protocol (P1717)	Maldonado/Smith	
	E10D	International Organizations	Boone/Zenger	
11:15 AM - 12:30 PM	B07D	Suggested Revisions to IEEE 386	Kumar/Harp	
	B10W	Selection Guide for Cable Terminations (P1637)	Taylor/Jibril	
	C01D	Ampacity Topics	Pumhagen/Goyette	
	C32D	Support of Transmission Cables Within Manholes	MacPhail/Eckroad	
F10D	Diagnostic Testing for Cable Joints & Terminations	Orton/Jiang		
12:30 PM - 2:00 PM		NETWORKING LUNCH (Must Register for This)		
2:00 PM - 5:30 PM	B	CABLE ACCESSORIES	Champion/Yaworski	
BREAKOUT WG/DG MEETINGS²				
2:00 PM - 3:15 PM	C13D	Installation of Cables Using Trenchless Techniques	Williams/Goyette	
	C22D	Superconducting Cables	Lindsay/Zimmerman	
	C29W	Induced Voltage Work Procedures (P1727)	Kong/Argaut	
	D11W	Shielding Practice Guide for Low Voltage Cables (P1143)	Bow/Bayer	
F06D	DC Field Testing of Extruded Cable Systems	Buchholz/Patterson		
3:30 PM - 5:30 PM	A10D	Conductors	Joy/Witt	
	A17W	Guide for Selection of Extruded Shields	Person/Pélessou	
	C31D	HPFF and HPGF Pipe Type Cable Systems	Ruschkofski/Frentzas	
	F03W	Very Low Frequency Testing in the Field - IEEE 400.2	Densley/Schlesinger	

General Meeting Notes

- 1-Guest Breakfast, 7:30 - 9:00 AM:
- 2-Guest Meeting Space, 9:00 AM - 4:00 PM:
- 3-Attendee Breakfast, 7:00 - 8:00 AM:
- 4-Breaks 9:40 - 10:00 AM, 11:00AM - 11:15AM, 3:15 - 3:45 PM:
- 5-See Bulletin Boards at Registration Area for Specifics

¹ Only those meetings listed on this schedule are sponsored by ICC.

² Breakout Working Group and Discussion Group meetings are held concurrent with General Sessions, in different rooms as noted.





IEEE

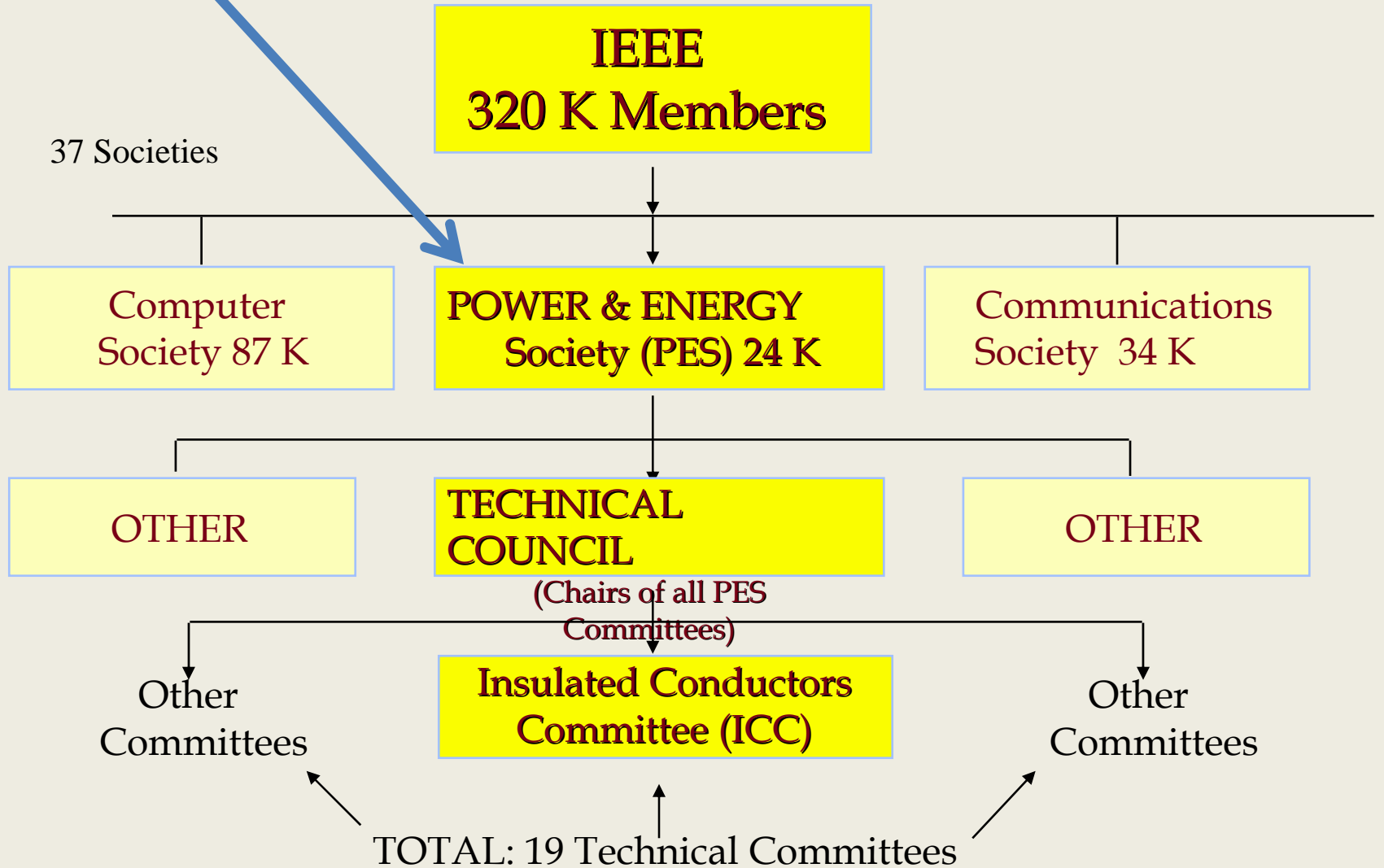
POWER & ENERGY SOCIETY

**INSULATED CONDUCTOR
COMMITTEE**



IEEE

WHERE DOES ICC FIT ?





ICC

JOIN AND PARTICIPATE

- ✓ Insulated Conductors and Cable Accessories
- ✓ Fundamental Technological Understanding
- ✓ Practical Application
- ✓ Educational Programs
- ✓ Standards Development



INSULATED CONDUCTORS COMMITTEE (ICC) SCOPE (1)

Design, Manufacture, Installation, Operation
Testing and Maintenance of

*Materials, Accessories and Structures of Insulated
Conductors, including Fiber Cores.*

*Used in Generation, T&D and Utilization of Electric
Energy.*



SUNDAY	Registration/ Reception
MONDAY	Opening Session
MONDAY	Networking Lunch
TUESDAY	Transnational Lunch
WEDNESDAY	Educational Session



ICC - MEETING FORMAT

SUNDAY

- Registration (All)
- Orientation (All)
- Reception (All + Spouses)
- Start Table Top Display (All)

G/O = Registered Guests only

MONDAY

- Attendee Breakfast
- Opening Session
- Presentations at Subcommittee Meetings
- Working Group Meetings
- Continue Registration
- Continue Display
- Guest Breakfast (G/O)
- Networking Lunch



ICC - MEETING FORMAT

TUESDAY

- Attendee Breakfast
- Continue Presentations at Subcommittee Meetings
- Working Group Meetings
- Transnational Luncheon
- Continue Exhibit

WEDNESDAY

- Attendee Breakfast
- Continue Presentations at Subcommittee Meetings
- Working Group Meetings
- Lunch for Education Program
- Education Program



ICC

Subcommittee

A

Subcommittee

B

Subcommittee

C

Subcommittee

D

Subcommittee

F

1/2 Day Session



SUBCOMMITTEE A A17D – Guide for Selection of Extruded Shields

A11W – Cables with
Radial/Longitudinal
Moisture Barrier



ICC - ACTIVE PARTICIPATION

- Register for Meeting
- Attend any Presentations of Interest - *Review Handout*
- Attend Any Meeting of Interest - *Watch Posted Schedules*
- To Add your Input - Ask for Opportunity to Speak
- Join Working Groups and/or Discussion Groups
- Seek Mentor from the “Elders”
- Leave Quietly at Any Time



(A) Cable Construction and Design Subcommittee

Scope: All issues related to materials, construction, design and manufacturing of insulated cables.

WG & DG: *Various*

Chair: Al Kong—Pacific Gas and Electric

Vice Chair: Mark Walton—General Cable



(B) Accessories Subcommittee

Scope: All issues related to cable terminations and joints

WG & DG: *Various*

Chair: Thomas Champion--NEETRAC

Vice Chair: Harry Yaworski---Tyco Electronics



(C) Cable Systems Subcommittee

Scope:

**All issues related to
installation, operation
of cable systems**

WG & DG:

Various

Chair:

Ted Nishioka—Arizona Public Service

Vice Chair:

Henk Geene--Prysmian



(D) Generating Station and Industrial Cables

Scope: All issues related to testing, assembly, operation and construction of cable systems not normally employed on transmission and distribution systems. This includes station cables, control cables, fiber optic cables, etc.

WG & DG: *Various*

Chair: Bert Spear—Duke Energy

Vice Chair: Robert Konnik—Marmon Specialty Wire



(F) Field Testing and Diagnostics

- **CHAIR** **JOHN DENSLEY—ArborLec Solutions**
- **VICE-CHAIR** **NIGEL HAMPTON--NEETRAC**



(E) Administrative Subcommittee

Scope: All issues related to the effective, efficient operation of the ICC and for the development and presentation of special ICC related activities.

Education – **Sudhakar Cherukupalli**

Transnational – **Willem Boone
Pierre Argaut**

Standards – **John Merando**

All Chairs – **Rachel Mosier**

Secretary – **Thomas Arnold**

Awards - **Lauri Hiivala**

Web Site – **Martin von Herrmann**

Minutes – **Mark Fenger**

Chair: Current ICC Chair – Rachel Mosier

Vice Chair: Current ICC Vice Chair – John Smith

Vice Chair Elect: Current ICC Vice Chair Elect – Tom Champion

Members: ICC Officers, Subcommittee Chairs and Vice Chairs, Special Session Chairs and Assistant Secretaries



ICC - ORGANIZATION SUBCOMMITTEES

WORKING GROUPS/DISCUSSION GROUPS

- WHERE THE ACTION IS
- TECHNICAL PRESENTATIONS
- *INTERESTING* DISCUSSION
- REVIEW OF WORKING & DISCUSSION GROUP ACTIVITIES
- PRELIMINARY BALLOTS



ICC - WORKING GROUPS

STANDARDS DEVELOPMENT

GROUP ASSEMBLED TO PREPARE A
DOCUMENT OR POSITION PAPER ON A
FOCUSED SUBJECT

- GUIDES
- STANDARDS
- PAPERS



ICC - DISCUSSION GROUPS

**GROUP ASSEMBLED TO DISCUSS AN
ISSUE**

OF IMPORTANCE TO ICC MEMBERS

**MANY WORKING GROUPS BEGIN AS
DISCUSSION GROUPS**



MEMBERSHIP REQUIREMENTS

- Must Be Member of the IEEE/PES and SA
- Must Attend Two out of Last Four ICC Meetings as Guest
- Must Apply to ICC Chair for Membership
- May Participate in WG, Subcommittee and Committee Activities
- Must Vote on WG and Subcommittee Ballots when Appropriate



Senior Membership Requirements

- **Must Be Member of the ICC**
- **Must attend 2 of last 4 meetings as a member**
- **Must be recommended by Subcommittee chair to ICC chair**
- **Must be a member of IEEE- SA and vote on standards as required**



FUTURE MEETINGS

- **Spring 2010**
Sheraton Music City, Nashville TN
March 21-24
- **Spring 2010**
T&D Convention April 19-22
New Orleans La
- **Fall 2010**
Radisson, Ft McDowell, Scottsdale AZ
Oct 17-20
- **Spring 2011**
Tradewinds Island Grand Resort
St Petersburg Beach Florida
May 22 - 25



ICC WEBSITE

WWW.PESICC.ORG

DOWNLOADS

User ID hartlein

Password kable98



SUMMARY

✓ **SUBCOMMITTEES—1/2 DAY SESSION**

A

B

C

D

F

✓ **WORKING GROUPS & DISCUSSION
GROUPS—2 HOUR SESSIONS**



INSULATED CONDUCTORS COMMITTEE (ICC) RECOMMENDATIONS

- Return Home Richer
 - Technically
 - Socially
- Sell ICC to Your Company and Colleagues
- Have Fun!

