

IEEE Power and Energy Society Entity Annual Report

2020

Entity: IEEE Insulated Conductors Committee
Website: <https://pesicc.org/ICCWP/>
Chair: Henk Geene
Vice-Chair: Art Maldonado
Secretary: N.A.
Immediate Past Chair: Earle C. (Rusty) Bascom, III

1. Significant Accomplishments:

The following documents were completed:

- IEEE 400.1, “Guide for Field Testing of Laminated Dielectric, Shielded AC Power Cable Systems Rated 5 kV to 500 kV Using High Voltage Direct Current (HVDC)”
- IEEE 1234, “IEEE Draft Guide for Fault Locating Techniques on Shielded Power Cable Systems”
- IEEE 1185-2019 IEEE “Recommended Practice for Cable Installation in Generating Stations and Industrial Facilities” to be published in March 2020.

2. Benefits to Industry and PES Members from the Committee Work:

The documents above will be beneficial to the respective groups, generally in the area of utility power systems, industrial / petroleum plants, and nuclear facilities.

3. Benefits to Volunteer Participants from the Committee Work:

Volunteers involved in ICC work have the ability to influence the standards and guides used in the industry in which they work. ICC participation also provides opportunities to hear interesting and often educational presentations on relevant industry activities.

4. Recognition of Outstanding Performance:

At each ICC meeting, Certificates of Appreciation are presented for the best presentation at a Subcommittee, Working Group, Discussion Group or Educational Program meeting. The following were distributed to the Subcommittee Chairs for presentation within their respective Subcommittees:

Recipient	Citation
Paul Caronia	for Best Presentation at the Fall 2018 Subcommittee A Meeting <i>TR-XLPE Insulated Cables for Wet High Voltage Cable Applications</i>
Bill Wolfe	for Best Presentation at the Fall 2018 Subcommittee B Meeting <i>Temperature Stability of Constant Force Springs Under Current Loading</i>

Stéphane Tognali	for Best Presentation at the Fall 2018 Subcommittee B Meeting <i>Temperature Stability of Constant Force Springs Under Current Loading</i>
Glen Bertini	for Best Presentation at the Spring 2018 Subcommittee C Meeting <i>Manhole Explosions, Part II: How to Stop Them</i>
Gabe Taylor	for Best Presentation at the Fall 2018 Subcommittee D Meeting <i>Contributions of Electrical Cables to Fire Risk</i>
Nigel Hampton	for Best Presentation at the Fall 2018 Subcommittee F Meeting <i>Health Index Methods for Using Forensic Diagnostics to Manage Water-Treeing in MV Cables</i>
Josh Perkel	for Best Presentation at the Fall 2018 Subcommittee F Meeting <i>Health Index Methods for Using Forensic Diagnostics to Manage Water-Treeing in MV Cables</i>
Thomas Parker	for Best Presentation at the Fall 2018 Subcommittee F Meeting <i>Health Index Methods for Using Forensic Diagnostics to Manage Water-Treeing in MV Cables</i>
Arianne Luy	for Best Presentation at the Spring 2019 Subcommittee A Meeting <i>Covered Conductor for Wildfire Mitigation</i>
Diego Cisilino	for Best Presentation at the Spring 2019 Subcommittee B Meeting <i>Thermal Behaviour of HV Cable Joints Under Different Load Conditions</i>
Guoyan Sun	for Best Presentation at the Spring 2019 Subcommittee B Meeting <i>Thermal Behaviour of HV Cable Joints Under Different Load Conditions</i>
Stefan Bruder	for Best Presentation at the Spring 2019 Subcommittee B Meeting <i>Thermal Behaviour of HV Cable Joints Under Different Load Conditions</i>
Paul Leufkens	for Best Presentation at the Spring 2019 Subcommittee C Meeting <i>Innovation is Like a Lightning Strike</i>
Robert Konnik	for Best Presentation at the Spring 2019 Subcommittee D Meeting <i>Review of White Paper on IEEE 383-2003 to 2015 Changes</i>
Jean-Francois Drapeau	for Best Presentation at the Spring 2019 Subcommittee F Meeting <i>Proposal for a New Interpretative Grid for Diagnostic Tests Based on Dielectric Loss Measurements (VLF Tan Delta and TDDS)</i>

IEEE PES Technical Committee Certificates of Appreciation

IEEE PES Technical Committee Certificates of Appreciation are presented to all outgoing Subcommittee, Working Group and Discussion Group Chairs and Vice Chairs, or upon publication of their IEEE standard or guide.

Recipient	Citation
Stan Szyszko	for Services Rendered as Chair, Subcommittee B <i>Accessories</i> Spring 2016 – Fall 2018

David Elliott	for Services Rendered as Chair, Working Group A08 <i>IEEE 1210-2005 Standard Tests for Determining Compatibility of Cable-Pulling Lubricants with Wire and Cable</i>
Mark Walton	for Services Rendered as Chair, Working Group A13 <i>IEEE 1407-2007 Guide for Accelerated Aging Tests for Medium-Voltage (5 kV-35 kV) Extruded Electric Power Cables Using Water-Filled Tanks</i>
Sherif Kamel	for Services Rendered as Chair, Working Group B3 <i>IEEE 592-2018 Standard for Insulation Shields on Medium-Voltage (15 kV - 35 kV) Cable Joints and Separable Connectors</i>
William Taylor	for Services Rendered as Vice Chair, Working Group B3 <i>IEEE 592-2018 Standard for Insulation Shields on Medium-Voltage (15 kV - 35 kV) Cable Joints and Separable Connectors</i>
Ray Whiteside	for Services Rendered as Chair, Working Group B5 <i>IEEE 1300-2011 Guide for Cable Connections for Gas-Insulated Substations</i>
Todd Goyette	for Services Rendered as Vice Chair, Working Group C1 <i>IEEE 835-1994 (R2012) Power Cable Ampacity Tables</i>
Dave Campilii	for Services Rendered as Vice Chair, Working Group C11 <i>IEEE 1120-2004 Guide for the Planning, Design, Installation, and Repair of Submarine Power Cable Systems</i>
Dave Campilii	for Services Rendered as Vice Chair, Discussion Group C37 <i>Submarine Cables</i>
Harry Orton	for Services Rendered as Chair, Discussion Group E12 <i>Networking Luncheon</i> Fall 2008 – Fall 2018
Gary Clark	for Services Rendered as Chair, Discussion Group C3 <i>Magnetic Fields of Underground Cables</i>
Dave Campilii	for Services Rendered as Vice Chair, Working Group C11 <i>IEEE 1120-2004 Guide for the Planning, Design, Installation, and Repair of Submarine Power Cable Systems</i>
Dave Campilii	for Services Rendered as Vice Chair, Discussion Group C37 <i>Submarine Cables</i>
William Larzelere	for Services Rendered as Chair, Working Group F02 <i>IEEE 400.1-2018 Guide for Field Testing of Laminated Dielectric, Shielded AC Power Cable Systems Rated 5 kV to 500 kV Using High Voltage Direct Current (HVDC)</i>
Ryan Tarring	for Services Rendered as Vice-Chair, Working Group F02 <i>IEEE 400.1-2018 Guide for Field Testing of Laminated Dielectric, Shielded AC Power Cable Systems Rated 5 kV to 500 kV Using High Voltage Direct Current (HVDC)</i>
Rachel Mosier	for Services Rendered as Chair, Working Group F12 <i>IEEE 1234-2019 Guide for Fault-Locating Techniques on Shielded Power Cable Systems</i>



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Martin von Herrmann	for Services Rendered as Vice-Chair, Working Group F12 IEEE 1234-2019 Guide for Fault-Locating Techniques on Shielded Power Cable Systems
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2019 Technical Committee Distinguished Service Award

Each Technical Committee is encouraged to select one individual to for this award for outstanding service to the committee. This personal recognition acknowledges the efforts of an individual whose sustained performance, over many years, has contributed to the advancement of the committee technology.

Thomas Arnold received the 2019 Technical Committee Distinguished Service Award with the following citation: *For his many years leading the efficient operation of the ICC's registration and treasurer activities.*

Career Highlights

Education.

Thomas received his BS degree in Electrical Engineering from the Georgia Institute of Technology in 1973.

Employment

Thomas spent most of his first year at Florida Power Corporation as a Distribution Engineer in St. Pete Beach. This time included relocating the main feeder line in front of the Don Ce Sar Hotel where the ICC later had many successful meetings.

Thomas then moved back to Georgia and began working for the Southwire Company. Thomas held many different positions with Southwire as his career progressed. Some of these were Sales Engineer, Product Development Engineer, Engineering Manager for Specifications and Standards, National Marketing Manager, and Manager of a joint venture with Furukawa Electric dealing with Southwire's water impervious cable. Thomas received the Roy Richards Engineer of the Year Award in 1984. He managed the EPRI project to evaluate ions in cable jacket insulations and their effects on cable life. He was editor of the Southwire Power Cable Manual, first edition, which is now in its fourth edition. More than 30,000 copies of this manual have been provided to engineers in the industry.

Thomas and his wife, Linda, are members of Tabernacle Baptist Church. He has taught Sunday school for young married couples and older married couples, and has been a Deacon since 1980.

He has worked for many years at the Carroll County Soup Kitchen and presently he and Linda are the Team Captains and cooks, for Monday services. They serve a hot meal to clients each Monday.

Affiliations

Thomas has been a member of ICC since 1975.



He is a member of the IEEE Power Engineering Society, and currently a Life Member of IEEE and ICC.

He has participated in many working groups within the ICC, including Neutral Corrosion, Moisture Impervious Cable Design, and 600-volt Abrasion Resistant Cables.

Thomas's biggest contribution to the ICC has been his continuous efforts of performing registration, maintaining our database, interfacing with the ICC for audits, etc. He has also maintained all of our accounting records since 2001. In the first six years, he had to work with the vice chair of the ICC, who set up a bank account, took care of the funds and accepted all pre-registrations. Thomas still did all onsite registrations and maintained the database. This arrangement could be quite challenging, as many members would come to the registration desk, claiming that they had registered and paid, even though they didn't show up in the records. This still happens and the answer is always the same, "Show me the paperwork!" They can't show the paperwork, and come back saying they weren't registered for some reason, so they register onsite.

In 2007, this process was greatly improved by having Thomas take over all the registration and take care of the accounting. He has excelled in this area and set a bar that will be difficult to meet in the future. During pre-registration, he responds to many emails every day from members who can't remember their login information or can't figure out the system. Before, during and after the meeting, he publishes many reports for the ICC leaders, pulling the information from his excellent database. He performs many tasks that most of the members don't realize, but help the ICC to run seamlessly. He sends monthly reports to the IEEE, does an annual review with the company who processes our credit cards to make sure the website and all transactions are as safe as possible from theft. His efforts are not just associated with our meetings, but he responds to requests that occur almost daily throughout the year. He is always happy to help anyone and has been a huge asset to the ICC. We couldn't have our meetings without him.

2019 IEEE PES Prize Paper Award

Authors George Anders and Heinrich Brakelmann are recipients of the 2019 IEEE PES Prize Paper Award for their "Rating of Underground Power Cables with Boundary Temperature Restrictions", which was published in the IEEE Transactions on Power Delivery, vol. 33, No. 4, pp. 1895-1902, August 2018. This award was established to recognize the most outstanding papers from among those nominated by each Technical Committee. Only two papers are chosen each year to win this award.

The award consists of a \$100 USD (for each author), a plaque and recognition normally at the IEEE Power & Energy Society General Meeting Awards Gala Dinner & Ceremony. However, George Anders chose to receive his award at our Fall 2019 meeting.

5. Coordination with Other Entities (PES Committees, CIGRE, standards, etc.):

IAS/PCIC, PES/NPEC, and PES/PGC. In addition, coordination with CSA, Mexico, and UL takes place on a working group level for some selected standards for which there is mutual interest. We also have a liaison with CIGRE Group B1 that also focuses on insulated conductors.

6. New Technologies of Interest to the Committee:

HVDC cable systems and the impact of renewables on the cable network.

7. Global Involvement

There are many guides and standards coming up for revision within the ICC. The group plans to work toward revisions to these documents as required.

PES is looking to increase involvement with members from Regions 8, 9 and 10 (Africa, Europe, Middle East, Latin America, Asia and Pacific). Please provide the following information.

Total Number of committee members	Officers from regions 8,9 and 10	Subcommittee officers from regions 8, 9 and 10	Subcommittee members from regions 8,9, and 10

	North America	Europe	Asia	Africa	South/Central America	Total
Spring 2019	494	27	3	0	0	524
Fall 2019	462	25	8	0	0	495

8. Significant Plans for the Next Period:

To increase the involvement of the utilities as they are the driving force behind our work.

Submitted by: Henk Geene, ICC Chair

Date: 24-Jan-2020