

**IEEE/PES SWITCHGEAR COMMITTEE
 MAIN COMMITTEE BUSINESS MEETING MINUTES
 Orlando, FL, USA
 Thursday, April 26, 2018**

Item	Description	Presenter
1	Call Meeting to Order	Todd Irwin – Chair
<i>Called to order at 9:30 AM</i>		
2	Introduction of Members & Guests	Todd Irwin
<i>Self-introductions with affiliations were made by the attendees.</i>		
3	Attendance and Quorum Check <ul style="list-style-type: none"> • <i>Rosters are being passed around. Sign only one. Add your name and affiliation information if you are not on the list.</i> 	Doug Edwards
<p><i>Sign-in sheets were circulated. Quorum was verified.</i></p> <ul style="list-style-type: none"> • <i>78 members + 1 Corresponding member = 79 Main Committee Members. Thus 40 members required for quorum.</i> • <i>Actual Attendance:</i> <ul style="list-style-type: none"> ○ <i>65 Members (quorum met)</i> ○ <i>80 Guest</i> ○ <i>145 Total attendees</i> <p><i>Attendance is documented in at the end of this document and is maintained in 123Signup.</i></p>		
4	Agenda Review and Approval	Todd Irwin
<p><i>Proposed agenda was reviewed. Motion to approve by: John Leach. Motion seconded by: Ted Burse. Motion carried.</i></p>		
5	Recognition	Todd Irwin
<p><i>THANK YOU to our financial supporters for this meeting!</i></p> <p><i>ABB, Cleaveland Price, DNV GL KEMA, Eaton, G&W Electric, GE Grid Solutions, Hitachi T&D, H-J, Mitsubishi Electric, NEMA, Powell Industries, S&C Electric, Schneider Electric, Siemens, Southern State</i></p>		
6	Approval of Fall 2017 Minutes	Todd Irwin
<p><i>Motion to approve by: Allan Morse. Motion seconded by: Francois Soulard. Motion carried.</i></p>		
7	Tribute <ul style="list-style-type: none"> • Jim Marek • Jim Smith 	John Leach Ron Hartzel
<p><i>Tributes provided: http://www.ewh.ieee.org/soc/pes/switchgear/minutes/2018-1/S18MCa1REV0.pdf</i></p> <p><i>Minute of silence observed.</i></p>		

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8	Chairman's Report <ul style="list-style-type: none"> • Technical Council Report • Switchgear Committee Officer Rotation • Hotel Survey Results • Past Chair Award 	Todd Irwin
	<ul style="list-style-type: none"> • <i>Chair's Report:</i> http://www.ewh.ieee.org/soc/pes/switchgear/minutes/2018-1/S18MCa2REV0.pdf • <i>Technical Council Report:</i> Todd Irwin attended the Technical Council meeting at the 2018 IEEE PES Joint Technical Committee Meeting in Jacksonville, FL Jan 7, 2018 and provided an update on the Switchgear Committee activities: The Switchgear Committee submitted an annual report to the PES Technical Council. The 2017 report will be posted at the Technical Council website. • <i>Switchgear Committee Officer Rotation</i> New Main Committee Members identified: <ul style="list-style-type: none"> ○ Chair: Todd Irwin ○ Vice-Chair: Keith Flowers ○ Secretary & Treasurer: Doug Edwards • <i>Hotel Survey Results</i> Survey of hotels and locations was made subsequent to Portland, ME meetings. <ul style="list-style-type: none"> ○ The main issues identified were (1) cost and (2) convenience (option to walk to restaurants). ○ Cost of Conference: Comparisons to other conferences, IEEE PES Switchgear conference cost are lower than other comparable conferences. ○ Room Rates: The history average room cost (past three (3) years) is \$172/room night. <ul style="list-style-type: none"> ▪ The Room Rate for Disney was an outlier. ▪ Upcoming venues are generally consistent with \$172/room night rate. • <i>Past Chair Award</i> "Game Changer" Award given recognizing Paul Sullivan's leadership and improvements with the processes and systems associated with the Main Committee processes and organizational structure. "Presented To: PAUL SULLIVAN The Switchgear Committee "Game Changer" Award For Dedication to Continuous Improvement Of the Activities of Our Technical Committee April 26, 2018" 	
9	Switchgear Committee Financial Report	Doug Edwards
	<p><i>IEEE PES Switchgear Committee is in sound financial position. Will reduce bank account balance due to higher cost of Disney venue but will remain in sound financial position.</i></p> <p><i>2017 annual financial report was provided in February with no issues.</i></p>	
10	Standards Coordinator's Report	Michael Wactor
	<p>See: http://www.ewh.ieee.org/soc/pes/switchgear/minutes/2018-1/S18ADSCOMa2REV0.pdf</p> <p><i>Additionally, it is requested that all Subcommittee Chairs send their status updates no later than (NLT) 30 days prior to the Spring and Fall face-to-face meetings.</i></p>	
11	Technical Committee Program Coordinator (TCPC)	Alex Lizardo
	<p><i>Report given by Todd Irwin – Alex Lizardo not able to be present.</i></p> <p><i>The switchgear committee had two poster sessions submitted for the PES General Meeting taking place August 5-9 in Portland, OR. One paper was accepted (Impact of High Coupled Split Reactor on the RRRV in the Interrupting Process of Paralleled Circuit Breakers) and will be presented during the meeting.</i></p>	

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12	Registrar's Report	Jeremy Hensberger
<p style="text-align: center;"><i>See: http://www.ewh.ieee.org/soc/pes/switchgear/minutes/2018-1/S18MCa3REV0.pdf</i></p>		
<h2>Roster Location Check</h2>		
<u>Subcommittee Reports</u>		
13	Administrative (ADSCOM) <ul style="list-style-type: none"> • General Data Protection Regulation (GDPR) 	Keith Flowers
<p><i>No actions requested to AdsCom.</i></p> <p><i>C37.100.1: AdsCom decisions were to keep C37.100.1 alive. Discussions of how to move forward resulted in a plan and an approved motion to re-initiate ballot with only minor revisions with goals of extending the life of the document as is.</i></p>		
14	Education, Recognition & Publications (ERP) <ul style="list-style-type: none"> • Updates • Thursday presentation – “HVDC Develop and Applications” – Joanne Hu & Rene Smeets • Box lunches (for those who purchased in advance) • The Committee is seeking volunteers to speak at upcoming meetings for Tuesday luncheon and Thursday technical presentations. 	John Webb
<p><i>See: http://www.ewh.ieee.org/soc/pes/switchgear/minutes/2018-1/S18MCa4REV0.pdf</i></p> <p><i>Paul Sullivan: Outgoing Committee Chair Award</i></p> <p><i>Ted Olsen: Technical Council Individual Distinguished Service Award</i></p> <p><i>IEEE Fellows: Leslie Falkingham & Denis Dufournet recognized.</i></p> <p><i>IEEE Fellows Task Force being formed under ERP with goals of supporting developing Fellows and coordinating Fellow nomination processes. Solicit Chair volunteer.</i></p> <p><i>Senior Members: Activities to gather membership status details from IEEE will be coordinated. 123Signup has been updated to have a profile field allowing attendees to self-update their profile. Attendees are recommended to update their profiles.</i></p> <p><i>Main Committee Members: 11 new members added and recognized (see attached slide) including:</i></p> <ul style="list-style-type: none"> • <i>Russell Boyce</i> • <i>Clint Carnes</i> • <i>Steven Chen</i> • <i>Robert Cohn</i> • <i>Anil Dhawan</i> • <i>Sergio Flores</i> • <i>Thomas Keels</i> • <i>Amir Khosravi</i> • <i>Travis Johnson</i> • <i>Tony Ricciuti</i> • <i>Ian Rokser</i> <p><i>Technical Committee Paper Coordinator (TCPC): Solicit volunteer for coordinator.</i></p> <p><i>Tutorials: 123Signup Tutorial was held on Monday 4/23/2018. Optional box lunch (fee based) will be added to registration for Fall 2018 meeting in Kansas City.</i></p>		

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	<p><i>Targeted for Kansas City – IEEE Standard WORD Template Training. Other future ideas include IMeetCentral and myProject (post IEEE roll-out).</i></p> <p><i>New Chair of ERP: Allan Morse recognized as incoming Chair of ERP sub-committee.</i></p> <p><i>Recognition of John Webb as outgoing Chair of ERP subcommittee for four years of service in this position.</i></p>	
15	High Voltage Fuses (HVF)	John Leach
	See: http://www.ewh.ieee.org/soc/pes/switchgear/minutes/Minutes.html	
16	High Voltage Switches (HVS)	James Houston
	See: http://www.ewh.ieee.org/soc/pes/switchgear/minutes/Minutes.html	
17	High Voltage Circuit Breakers (HVCB)	Mike Skidmore
	See: http://www.ewh.ieee.org/soc/pes/switchgear/minutes/Minutes.html	
18	Low Voltage Switchgear Devices (LVSD)	Dave Dunne
	See: http://www.ewh.ieee.org/soc/pes/switchgear/minutes/Minutes.html	
19	Reclosers and Other Distribution Equipment (RODE)	Francois Soulard
	See: http://www.ewh.ieee.org/soc/pes/switchgear/minutes/Minutes.html	
20	Switchgear Assemblies (SA)	Mike Lafond
	<p>See: http://www.ewh.ieee.org/soc/pes/switchgear/minutes/Minutes.html</p> <p><i>Mike Wactor recognized for efforts as chair of C37.20.7 and bring revised document to publication.</i></p>	
21	Technology and Innovation Subcommittee	Nenad Uzelac
	See: http://www.ewh.ieee.org/soc/pes/switchgear/minutes/Minutes.html	
<h2>Roster Location Check</h2>		
<u>Liaison Reports</u>		
22	Accredited Standards Committee C37	John Webb
	<p>See: http://www.ewh.ieee.org/soc/pes/switchgear/minutes/2018-1/S18Mca5REV0.pdf</p> <p><i>Few ballots forthcoming.</i></p> <p><i>Current membership from IEEE PES Switchgear Committee:</i></p> <ul style="list-style-type: none"> • <i>Doug Edwards</i> • <i>John Leach</i> • <i>Paul Sullivan</i> • <i>Mike Wactor</i> <p><i>C37.50 & C37.51 out for publication</i></p> <p><i>C37.54 – Work target to begin in near future.</i></p> <p><i>C37.55 – Currently, review of one issue (pry bar requirement)</i></p>	
23	Short Circuit Test Liaison of the Nations of the Americas (STLNA)	Frank DeCesaro
	See: http://www.ewh.ieee.org/soc/pes/switchgear/minutes/2018-1/S18Mca6REV0.pdf	
24	CIGRÉ	Nenad Uzelac
	<i>CIGRE conference will be held in Paris August 26-31, 2018</i>	

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	<p><i>Nenad Uzelac will become chair of CIGRE A3 Technical Committee after Paris conference (High Voltage equipment for T&D)</i></p> <p><i>Albert Livshitz became US representative of CIGRE A3 committee, replacing Nenad Uzelac.</i></p> <p><i>Three new Working Groups being formed within A3 committee:</i></p> <ul style="list-style-type: none"> • <i>CIGRE A3.40: Technical requirements and field experiences with MV DC switching equipment</i> • <i>CIGRE A3.41: Interrupting and switching performance with SF6 free switching equipment</i> • <i>CIGRE A3.42: Failure analysis of recent AIS instrument transformer incidents</i> 	
Old Business		
25	<p>Policies and Procedures Manual for Switchgear Committee</p> <p><i>Ted Olsen presented.</i></p> <ul style="list-style-type: none"> • <i>P&P: Received news from AudCom IEEE Coordinator that review by AudCom (pending meeting in June 2018) should be recommending approval of IEEE PES Switchgear PnP.</i> • <i>O&P: Document is under review and revision. Paul Sullivan has task as immediate past chair.</i> • <i>WG P&P: Document is under review. Paul Sullivan has task as immediate past chair.</i> 	Paul Sullivan - Past Chair
26	<p>Approval (or not) of "Technical Report titled "Overview of Alternate Gases and Their Impact on Existing Switchgear IEEE Standards"</p> <p><i>Password protected link to the report was provided to Switchgear Committee members on March 16, 2018.</i></p> <p><i>Motion made to publish report by: Nenad Uzelac.</i></p> <p><i>Motion carried.</i></p> <p><i>Intent is to publish on IEEE PES Resource Center and IEEE Xplore websites. The paper will be available at no cost for any PES member.</i></p> <ul style="list-style-type: none"> • <i>IEEE PES Resource Center: http://resourcecenter.ieee-pes.org/</i> • <i>IEEE Xplore: https://ieeexplore.ieee.org/Xplore/home.jsp</i> 	Todd Irwin
27	<p>Maintain your AMS profile</p> <p><i>Please let us know of changes of status – retirement, new job, etc.</i></p> <p><i>Reminder and request made for attendees to maintain their 123Signup profiles.</i> https://www.123signup.com/profile?Org=IPSC2</p> <p><i>Please let us know of changes of status, e.g. retirement, new job.</i></p> <p><i>For WG officer updates (new WG or changes), Subcommittee chairs need to provide a list of working group officers to the registrar, so the officers can be setup with the appropriate level of 123Signup access.</i></p>	Todd Irwin
Roster Location Check		
New Business		
28	<p>Quorum Verification</p> <p><i>Quorum was confirmed.</i></p>	Doug Edwards
29	<p>Future PES Meetings of Interest</p> <p><i>Refer to IEEE PES Conference Calendars</i> <i>URL : https://www.ieee-pes.org/meetings-and-conferences/conference-calendar</i></p>	Todd Irwin

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30	Future Switchgear Committee Meetings	Todd Irwin
	<ul style="list-style-type: none"> • <i>Fall 2018 (14 Oct – 18 Oct), Kansas City Marriott Downtown, MO</i> • <i>Spring 2019 (28 Apr – 01 May), Hilton, Burlington, VT</i> • <i>Fall 2019 (06 Oct – 10 Oct), Catamaran Resort, San Diego, CA</i> • <i>Spring 2020 (04 May – 08 May), Peppermill Resort, Reno, NV</i> • <i>Fall 2020 (04 Oct – 08 Oct), Sheraton Sundance Square, Fort Worth, TX</i> • <i>Spring 2021 (18 April – 23 April), Hilton Charlotte University Place, Charlotte, NC</i> 	
31	Adjourn	Todd Irwin
	<i>The meeting adjourned at 10:43 am.</i>	

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Attendance

Role	Last, First Name	Company
Chair	Irwin, Todd	GE Grid Solutions
Vice-Chair	Flowers, Keith	Siemens Industry, Inc.
Secretary	Edwards, Doug	Siemens Industry, Inc.
Member	Aristizabal, Mauricio	ABB
Member	Barnhart, Paul	Underwriters Laboratories
Member	Behl, Robert	ABB
Member	Bosma, Anne	ABB AB
Member	Bufi, Arben	Hitachi T&D Solutions, Inc.
Member	Burse, Ted	Powell Industries, Inc
Member	Byron, Eldridge	Schneider Electric
Member	Cary, Stephen	GE Energy Management
Member	Chow, Chih	PEPCO
Member	Cochran, Sterlin	Hubbell Power Systems
Member	Crawford, Michael	Mitsubishi Electric
Member	DeCesaro, Frank	Eaton's Power Systems Division
Member	Di Lillo, Patrick	Consolidated Edison Co. of NY, Inc.
Member	Dunne, David	Schneider Electric
Member	Eastman, John	INCON
Member	Falkingham, Leslie	Vacuum Interrupters Limited
Member	Gingrich, Paul	AZZ Switchgear Systems
Member	Gohil, Sahadev	AZZ Switchgear Systems
Member	Grahor, Lou	Eaton Corporation
Member	Hall, John	Tennessee Valley Authority
Member	Hawkins, Tom	Siemens Industry, Inc.
Member	Haynes, Gary	ABB Inc.
Member	Heiermeier, Helmut	ABB
Member	Hensberger, Jeremy	Mitsubishi Electric Power Products Inc.
Member	Hermosillo, Victor	GE Grid Solutions
Member	Hoss, Danny	Southern States
Member	Houston, James	Southern Company Transmission
Member	Hrcir, Dan	Eaton
Member	Lafond, Michael	General Electric
Member	Leach, John	Consultant - Hi-Tech Fuses
Member	Lemmerman, David	PECO/Exelon
Member	Liu, Hua Ying	Southern California Edison
Member	Livshitz, Albert	CE Power Solutions
Member	Martin, Donald	G&W Electric Co.
Member	McClelland, John	Technibus
Member	McCord, Neil	KEC Precision
Member	Meiners, Steven	GE
Member	Mitchell, Dave	Dominion Energy
Member	Mizener, Jeff	Siemens Industry, Inc.
Member	Morse, Charles	Siemens Industry, Inc.

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Role	Last, First Name	Company
Member	Moser, Darryl	ABB
Member	Mulcahy, Tom	Dominion Virginia Power
Member	Olsen, T	Retired, formerly with Siemens Industry, Inc.
Member	Reigart, Carl	CDR Technical Services, LLC
Member	Royster, Timothy	Dominion Virginia Power
Member	Schneider, Carl	Schneider Electric
Member	Schuetz, Carl	American Transmission Company (ATC)
Member	Sharma, Devki	Consultant
Member	Shinde, Sushil	ABB Inc.
Member	Sigmon, Dean	Eaton Corporation
Member	Skidmore, Michael	AEP
Member	Soulard, Francois	Hydro-Quebec
Member	Sullivan, Paul	DuPont
Member	Tailor, Chand	Eaton Corporation
Member	Trost, Karla	G&W Electric
Member	Uzelac, Nenad	G&W Electric
Member	Wactor, Michael	Powell Industries, Inc
Member	Webb, John	ABB
Member	Woodyard, Terry	Siemens Industry Inc.
Member	York, Richard	Mitsubishi Electric Power Products Inc.
Member	Zhu, Xi	GE Energy Management
Corresponding Member	Dufournet, Denis	Retired
Member	Arlund, Joshua	MacLean Power Systems
Guest	Armstrong, Brad	Meramec Instrument Transformer Co.
Guest	Becker, George	POWER Engineers
Guest	Boles, Brett	Southern Company
Guest	Borck, Christopher	Eaton's Power Systems Division
Guest	Boyce, Russell	Eaton
Guest	Brignac, Andrew	Entergy
Guest	Brogdon, Jeffrey	Georgia Transmission
Guest	Cannon, Kelly	Hubbell Power Systems
Guest	Carne, Clint	Schneider Electric
Guest	Chen, Steven	Eaton Corporation
Guest	Christian, Michael	ABB
Guest	Cohn, Robert	Powercon Corp.
Guest	Collette, Lucas	Duquesne Light
Guest	Cunningham, Jason	Hitachi HVB, Inc.
Guest	Darko, Kennedy	G&W Electric Co
Guest	Dhawan, Anil	ComEd
Guest	Door, Jeffrey	H-J Family of Companies
Guest	Fennell, Howard	Nashville Electric Service
Guest	Flores, Sergio	Schneider Electric Inc. USA
Guest	Gall, Elizabeth	MEPPI
Guest	Glinsky, Ilya	Southern California Edison

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Guest	Harley, John	FirstPower Group LLC
Guest	Hartzel, Ronald	Eaton Corporation
Guest	Hines, Jared	Eaton Corp.
Guest	Hu, Jingxuan (Joanne)	RBJ Engineering Corporation
Guest	Hunter, Jennifer	MEPPI
Guest	Hutchins, Roy	Southern Company Services
Guest	Jarnigan, Christopher	Southern Company Services
Guest	Jasinski, Joseph	ITC Holdings Corp.
Guest	Johnson, Travis	Xcel Energy
Guest	Kaminski, John	Siemens
Guest	Keels, Thomas	Salt River Project
Guest	Khosravi, Amir	BC Hydro
Guest	Lagree, James	Eaton
Guest	Lambert, Frank	Georgia Tech / NEETRAC
Guest	Leufkens, Paul	Power Projects Leufkens
Guest	Lewis, Bradley	AEP
Guest	Martin, Gary	Entergy
Guest	May, Steven	Southern Company Services
Guest	McMullen, David	Georgia Power Company
Guest	Moorhead, Robert	Dominion Energy
Guest	Neighbours, Terry	ABB Inc.
Guest	ONeil, Brian	CE Power Engineered Services
Guest	Orosz, Miklos	Myers Controlled Power
Guest	Osorio, Luis	The H-J Family of Companies
Guest	Owens, Mary	Eaton
Guest	Palmer, Justin	ELECTRONSYSTEM MD
Guest	Parks, Owen	ABB
Guest	Pattison, Mark	H-J Family of Companies
Guest	Pawar, Rahul	ABB
Guest	Peterson, Andrew	ABB
Guest	Peterson, Mark	Xcel Energy
Guest	Putman, Larry	Powell Electrical Systems Inc.
Guest	Reddy, Samala Santosh	Powell Industries
Guest	Ricci, Anthony	FirstEnergy Corp.
Guest	Ricciuti, Anthony	Eaton Corporation
Guest	Rich, Bobby	Dominion Virginia Power
Guest	Riffe, Dave	Westinghouse Electric Company
Guest	Riley, Caryn	Georgia Tech/NEETRAC
Guest	Rohr, Richard	Powell Electrical Systems
Guest	Rokser, Ian	Eaton Corp
Guest	Rostron, Joe	Southern States LLC
Guest	Santos, Leonel	Schneider Electric
Guest	Sims, Daniel	Eaton Corp.
Guest	Sippel, Kevin	Eaton Electric
Guest	Slattery, Christopher	FirstEnergy

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Guest	trichon, francois	schneider electric
Guest	Tsvetanoff, Jordan	First Energy
Guest	Venne, Bruce	Rockwell Automation
Guest	Ward, Jeffrey	Doble Engineering Company
Guest	Weisker, Jan	Siemens AG
Guest	Wen, Jerry	BC Hydro
Guest	Whitney, Michael	S&C Electric Company
Guest	Witcher, Emily	Hubbell Power Systems
Guest	wolf, robert	Hubbell Power Systems, Inc.
Guest	Yang, Hua	Rockwell Automation Canada
Guest	Zhang, Wei	Hitachi T&D Solutions, Inc.
Guest	Zia, Danish	UL LLC

Tribute – Jim Marek



- June 7, 1926 - July 15, 2017
- Member of the High Voltage Subcommittee of IEEE, NEMA Fuse Subcommittees and ANSI Fuse Subcommittee
- Switchgear Committee Past Chair
- HVF Committee Past Chair

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Jim Smith's Life

IEEE Meeting Spring 2018

D.

Jim Smith's Career at Westinghouse/Eaton

- He started in Canada for the Westinghouse Construction Equipment Division - September 1972
- Over his 19 years in Canada he held numerous positions: lab test engineer, design engineer for MV Switchgear & Starters to name a few
- He started in Pittsburgh with Eaton MV Switchgear Group as a Senior Project Engineer March 1991 and became Manager of the group in 2001



Jim Smith's Participation on IEEE Standards

He didn't waste any time in becoming a contributing member of IEEE:

- He actively participated on the following IEEE Standards: IEEE C37.012, C37.015, C37.17, C37.20.1a, C37.20.2, C37.20.3, C37.20.4, C37.20.6, C37.20.7, C37.301, C37.59, and C37.74.
- He was chair of C37.121 – 2012 and Chair of the Switchgear Committee
- He is survived by his lovely family



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