# Chair’s Report – Bruce Forsyth

## IEEE PES Technical Council

The Technical Council of the IEEE Power Energy Society (PES) is composed of the Chairs of the PES Technical and Coordinating Committees, plus the Chairs of Standing Committees reporting to it. The full organizational structure of the PES is shown in the current version of the IEEE PES Organization Chart and Committee Directory (<https://www.ieee-pes.org/images/files/pdf/membership/protected/2020-PES-Org-Chart-V4.pdf>). The PES Technical Committees report to the Technical Council on matters concerning membership, recognition, technical publications, scope and the coordination of the Power Energy Society generated standards. For standards relating to their technical scope, the Technical Committees work directly with the IEEE-SA Standards Board and the PES Standards Coordinating Committee. For further details on the Statement of Purpose and Scope of Activities for the PES Technical Council Please see; <http://www.ieee-pes.org/statement-of-purpose-and-scope-of-activities-for-the-pes-technical-council>.

### Technical Council Officers & Members

The officers and members of the Technical Council are listed below for your reference. Each individual listed here is the chair of that respective committee.

**TECHNICAL COUNCIL OFFICERS 2020-2021**

Chair Vijay Vittal (Arizona State University)

Vice Chair Hong Chen

Secretary Diane Watkins (Xcel Energy

Past Chair Farnoosh Rahmatian (Quanta Technology)

**TECHNICAL COMMITTEES 2020 Chair**

Analytical Methods for Power Systems (AMPS) Kevin Schneider

Electric Machinery (EM) John Yagielski

Energy Development & Power Generation (EDPG) John B. Yale

Energy Storage & Stationary Battery (ESSB) Curtis Ashton

Insulated Conductors (IC) Henk Geene

Nuclear Power Engineering (NPE) Daryl Harmon

Power System Communications & Cybersecurity (PSCC) Ken Fodero

Power System Dynamic Performance (PSDP) Costas Vournas

Power System Instrumentation & Measurements (PSIM) Jeff Britton

Power System Operation Planning & Economics (PSOPE) Fran Li

Power System Relaying & Control (PSR) Russ Patterson

Smart Buildings Loads & Customer Systems (SLCS) Ron Melton

Substations (SUB) Joe Gravelle

Surge Protective Devices (SPD) Steven Hensley

Switchgear (SWGR) Keith Flowers

Transformers (TRANS) Bruce Forsyth

Transmission and Distribution (T&D) Gary Chang

**COORDINATING COMMITTEES 2020 Chair**

Intelligent Grid & Emerging Technologies (IGETCC) Doug Houseman

Marine Systems (MSCC) Dwight Alexander

Wind and Solar Power (WSPCC) Andrew Leon

**STANDING COMMITTEES 2020-2021 Chair**

Awards Committee Farnoosh Rahmatian

Organization & Procedures Committee Diane Watkins

Power and Energy Education Committee Siddharth Suryanarayanan

Standards Coordination Committee Ted Burse

Technical Sessions Committee Hong Chen

### PES Technical Council Activities

The Technical Council meeting schedule for 2020 through January of 2021 is as follows:

* January 12-13, 2020 – JTCM – Jacksonville, FL
* May 12-13, 2020 – Web Meeting
* August 2020 – Web Meeting in lieu of GM meeting (exact date TBD)
* November 12-13, 2020 – Annual Retreat – Location TBD
* January 10-14, 2021 – JTCM – New Orleans, LA

### Energy Internet Coordinating Committee (EICC)

A new coordinating committee – the Energy Internet Coordinating Committee (EICC) – has been established and its O&P Manual has been approved. The following is the scope of the EICC as listed in the newly approved O&P manual:

*“The EICC serves as a focal point within the Power and Energy Society (PES) for the identification of challenges associated with Energy Internet (EI).EI is a deep combination of energy system and the Internet, including (1) Internet thinking reshaping the energy networks, based on synergy of multi-energy systems, including heating, cooling, gas, transportation as well as electricity; Energy routers, energy Hubs, multi-energy storages and plug-and-play techniques could be utilized to build an Internet-like energy grid; (2) New Internet and IT techniques applications, such as new generation communication technologies, ubiquitous decentralized control units, Internet of Things, Blockchain, and new computing architecture coordinating between the cloud and the edge device (3) New energy policies and energy market based on sharing economy, e.g. energy P2P trading.*

*“The EICC also serves as the point of coordination for other organizations dealing with similar challenges (such as AWEA, CIGRE, DOE, ESIG, FERC, NERC, NREL, IEC, SEIA, UN SDSN) and establishes liaisons to coordinate and help identify the appropriate technical resources within the PES and other IEEE societies to address the issues. The EICC seek**s opportunities to conduct jointly sponsored activities to promote the sharing of knowledge and experience among diverse organizations working on similar issues through the conduct of studies, symposia, workshops, panel discussions, and tutorials.*

*“The EICC iden**tifies the need for guides, recommended practices, and standards with respect to EI. The EICC implements required actions through cooperation with an appropriate technical committee. The EICC does not develop standards.*

*“The EICC is responsible for identifying and fostering interest in such standards, education and supporting actions to further these topics, and for recommending actions to the Technical Council in regard to ensuring the timely incorporation of such issues into the scope of the Technical Council and its committees.”*

### Entity PAR Process Revision

A new procedure for reviewing Entity PARs has been established to streamline the process. Specifically, a small Review Committee will be established composed of people familiar with the standards development process and with good cross-sectional representation from all technical committees. Entity PARs will be sent to the Review Committee who will make initial determinations related to scope and will determine the appropriate technical committee that should sponsor the PAR development. Establishment of the Review Committee is underway.

## IEEE-SA

### WebEx Accounts for Standard Development

To support remote technical meetings the IEEE has made available a WebEx account for use by volunteers involved in standards development activities. The account is shared by 5 technical committees, so some coordination is required to avoid conflicts. Activity leaders are free to use any other web service available to them, but the WebEx service is available for those who do not have access to a suitable tool. Anyone needing access to the WebEx account is asked to contact any Officer or transformers@ieee.org to obtain specific details on how to access the account.

### National Adoption of IEEE Standards

The IEEE is considering allowing its standards to be adopted or otherwise included in different national standards. IEEE standards are meant to be global, but it is recognized that in the electro-technical field, the IEEE tends to lag IEC in this regard.  Some of the feedback received from national bodies around the world is that in creating a national standard, IEC allows the national bodies of countries to make country-specific changes.  It stands to reason that if an adopted standard is to become a national standard, the adopting country would like to make that document conform to the language, terminology, and regulations of that country.

The concept of the National Adoption is that the base IEEE document will serve as the source for countries to develop their own standards.  In this regard, the resulting document is NOT an IEEE standard, and the adopting country takes full responsibility for the results.

Perhaps the most compelling reason for this program is that IEC and ISO practice the philosophy of allowing countries to make country-specific changes without review in adopting IEC and ISO standards, with the understanding that the country assumes all responsibility for the changes.  Also, any changes the country makes in the adoption will be clearly marked, showing both the original text as developed by the original group and the changed text.

The other element of this program is to inform the world of the good work that IEEE PES Technical Committees are doing and encourage both participation and adoption on a global basis.

### The PES China Council

A meeting took place during the January JTCM in Jacksonville, FL to discuss issues related to the development of technical standards in China. China has many engineers and experts interested in participating in the standards development processes, but it is difficult for them to travel outside of China. Concerns about conflicting standards were discussed. The Transformers Committee was a focus of discussion because there are already activities underway in China to develop local transformer standards under the IEEE PES logo. It was made clear that there is only one IEEE PES Transformers Committee, but it was agreed there could be an IEEE PES Transformer Satellite Committee whose output must be reviewed and approved by the parent Transformers Committee. Furthermore, it was agreed that the Satellite Committee should be structured and operate essentially the same as the parent Transformers Committee. It was agreed that Chair of the Transformers Committee would send copies of the current Transformers Committee P&P, O&P, and both the Individual and Entity Working Group P&Ps for review by the team from China. The documents will be sent after the Individual WG P&P is reviewed and approved by AudCom.

# Transformers Committee Activities

### Liaison Representatives - Appointed by Committee Chair.

* ASTM D27 – Tom Prevost
* CIGRE – Craig Swinderman
* IEC TC14 - Phil Hopkinson
* Standards Coordinating Committee, SCC No. 18 (NFPA/NEC) – David Brender
* Standards Coordinating Committee, SCC No. 4 (Electrical Insulation) - Evanne Wang

### Committee Schedule

The Spring 2020 Transformers Committee meeting was cancelled due to issues related to the coronavirus pandemic. Activity leaders are encouraged to hold web-based or telephone-based meetings in order to keep the development process moving forward. Activity leaders should review the requirements for holding remote (electronic) meetings and ensure all the proper records are maintained, including entering the meeting information into the AMS system. The PAR deadlines and other expiration dates will not change because of the pandemic, so it is important that development continue. At this time, it is expected the fall 2020 meeting in Kansas City will take place as planned.

### Meeting APP

Based on positive feedback from the Columbus meeting the Committee plans to continue using the new IEEE EventHub APP for our next meeting in Kansas City. The APP can be found by searching for “IEEE EventHub” on either the App Store or Play Store. Login is required using your IEEE account credentials.  Anyone that does not already have an IEEE account, can create one for free. The cost for the APP will be ~$1000/meeting and is independent of the number of users. The previous APP had fees based on the number of users. This new APP is expected to save money for the Committee.

### Association Management System, 123 Signup

All WG’s must use AMS to track their membership and meeting attendance. The IEEE PES Technical Council’s Organization and Procedures Manual (March 2020) states the following in section 7.1.1:

*“To be in compliance as a technical or coordinating committee of the IEEE PES Technical Council all technical and coordinating committees are required to keep accurate and up to date membership and meeting attendance records of their committees, subcommittees, working groups and task forces using the Association Management System selected by the IEEE PES Technical Council.”*

All activity leaders are asked to ensure their groups are using AMS. In addition to using the AMS, a list of names and affiliations must be included in the meeting minutes.

### Website Password Usage

The website password is not for public dissemination. It is for use by our meeting attendees (CM, AP, II) and associated work of the Transformers Committee. Access to the protected information on the Committee website is a benefit of attendance and participation. It may be used by meeting attendees and within attendees’ immediate workplace, but not beyond that. A new password is generally implemented immediately after each fall meeting with an announcement made to share the new password during the closing session.

### IEEE Copyright Policy

During the fall 2019 meeting there were various discussions related to the application and compliance with the IEEE Copyright Policy. The key issue is that the Transformers Committee has an obligation comply with the IEEE Copyright Policy and thereby respect and protect the rights of copyright holders by preventing the inappropriate use of material protected by copyright laws.

Compliance with the Copyright Policy requires a certain amount of due diligence on the part of activity leaders, but it is not a daunting task. To assist activity leaders, a webinar is being prepared to discuss the application of the Copyright Policy during Transformer Committee standards development processes. The exact date and time of the webinar has not been determined, but it is expected that it will take place a few weeks before the fall 2020 meeting in Kansas City. Notifications will be posted on the Committee website and activity leaders will be notified.

### Call for Patents (Essential Patent Claims)

<https://standards.ieee.org/about/sasb/patcom/patc.html>

A call for patents is required at every Working Group (WG) meeting. This is a reminder to all WG leaders to call for patents and record the results in the meeting minutes. Note it is not required to show the patent slides; it is only necessary to call for patents and record the response in the minutes. If there is a claim reported, the WG chair shall include in the minutes the name & affiliation of the individual asserting a patent claim. Here is what each WG Chair should ask at the beginning of each WG meeting. This applies only to WG’s after the PAR is approved by the IEEE-SA Standards Board.

**“If anyone in this meeting is aware of any patent claims that are potentially essential to implementation of the document under consideration by this WG, that fact should be made known to the WG and recorded in the meeting minutes.”**

There should be no discussion of any patent claim identified, only that it be identified and recorded. Even if no patent claims are identified, the minutes are to indicate that the call for patents was made.

If a patent holder or patent applicant is identified, then the WG Chair (or designee) should ask the patent holder or patent applicant of a patent claim that might be or become an Essential Patent Claim to complete and submit a Letter of Assurance in accordance with Clause 6 of the IEEE-SA Standards Board Bylaws.

A Letter of Assurance (LoA) is a document submitted to IEEE-SA by a patent holder which documents the submitter’s position with regard to ownership, enforcement, or licensing of an Essential Patent Claim that may be incorporated into a specific IEEE document. As of May 20, 2020, the following twelve (12) existing Accepted Letters of Assurance pertain to our committee:

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| --- | --- | --- | --- | --- | --- | --- |
| **Std No.** | **Patent Owner** | **Contact for License** | **Patent  Serial No.  (if indicated)** | **Letter  Date** | **Licensing Assurance Received** | **Date record entered or revised (if known)** |
| C37.30.2 | Southern Electrical Equipment Company Inc. | **Andrew Panto - COO/Director of Engineering**aspanto@seecoswitch.com | 5,560,474 (US) | [18 Oct 2011](http://standards.ieee.org/about/sasb/patcom/loa_c37_30_2-18oct2011.pdf) | yes | 18 Oct 2011 |
| C37.60 | S&C Electric Company | **Mark W. Stavnes-Vice President, Fuse Products and Polymer Products Division**mstavnes@sandc.com | not indicated | [29 Aug 2008](http://standards.ieee.org/about/sasb/patcom/nonaware_c3760sc_29aug08.pdf) | non-awareness statement | 2 Sep 2008 |
| C37.245 | Schweitzer Engineering Laboratories, Inc. | **Richard Edge, Legal**ipmail@selinc.com | 7,319,576 (US) | [11 Apr 2014](http://standards.ieee.org/about/sasb/patcom/loa_C37-245_11Apr2014.pdf) | yes | 11 Apr 2014 |
| C57.12.200 | Megger Sweden AB | **Niclas Wetterstrand, Product Management**niclas.wetterstrand@megger.com | 8,428,895 (US) | [25 Sep 2019](https://standards.ieee.org/content/dam/ieee-standards/standards/web/governance/patcom/loas/loa_C57-12-200-Megger-25Sep2019.pdf) | yes | 30 Sep 2019 |
| C57.104 | Arizona Public Service Company | **John Finn - Director Venture Investment Management, Venture Investments** john.finn@pinnaclewest.com | not indicated | [12 Apr 2019](https://standards.ieee.org/content/dam/ieee-standards/standards/web/governance/patcom/loas/loa_C57-104_APS-12Apr2019.pdf) | yes | 16 Apr 2019 |
| C57.127 | ABB Technology Ltd. | **Bjorn Dahlstrand, ABB AB, Legal Affairs and Compliance/IP** bjorn.dahlstrand@seabb.com | 6,340,890 (US) | 31 Aug 2005 | yes | 6 Sep 2005 |
| C57.127 | General Electric Technology GmbH | **Frank Landgraff-Executive Counsel, GE Power Legal Department**frank.landgraff@ge.com | 7,286,968B2 (US) | [14 Aug 2018](https://standards.ieee.org/content/dam/ieee-standards/standards/web/governance/patcom/loas/loa_C57-127_GE-14Aug2018.pdf) | yes | 16 Aug 2018 |
| C57.139 | Maschinenfabrik Reinhausen GMBH | **Stefanie Hofmeister-Counsel, Corporate Legal Services**patents@reinhausen.com | not indicated | [13 Jan 2013](http://standards.ieee.org/about/sasb/patcom/loa_c57-139_13Jan2013.pdf) | yes | 16 Jan 2013 |
| C57.143 | Roger Fenton | **Roger Fenton, Principal Engineer, Fenton Solutions** roger.a.fenton@gmail.com | 15/371,085 (US) | [9 Oct 2018](https://standards.ieee.org/content/dam/ieee-standards/standards/web/governance/patcom/loas/loa_C57-143_Fenton-09Oct2018.pdf) | yes | 12 Oct 2018 |
| C57.147 and C57.155 | Cooper Power Systems, LLC | **Alan Yerges, Engineering - Power Systems Division IP**alanpyerges@eaton.com | 6,398,986 (US)6,905,638 (US)7,651,641 (US) | [5 Apr 2017](http://standards.ieee.org/about/sasb/patcom/loa_c57-155_05Apr2017.pdf) | yes; royalty-free | 5 Apr 2017 |
| C57.147 and C57.155 | Cooper Power Systems, LLC | **Alan Yerges, Engineering - Power Systems Division IP** alanpyerges@eaton.com | PI 9612097-5 | [5 Apr 2017](http://standards.ieee.org/about/sasb/patcom/neg-loa_c57-155_05Apr2017.pdf) | NO | 5 Apr 2017 |
| C57.163 | Advanced Power Technologies, LLC | **Gary Hoffman - Managing Member**grhoffmann@advpowertech.com | 20130285671 (US) | [5 May 2014](http://standards.ieee.org/about/sasb/patcom/loa_c57-163_APT_05May2014.pdf) | yes | 5 May 2014 |

### Transformers Committee Working Group Policies and Procedures (P&P) Update

The Individual and Entity Working Group P&Ps were previously approved by the Transformers Committee. At AudCom’s request the Individual WG P&P was submitted for AudCom review at its last meeting. Because of a busy agenda AudCom did not review the P&P and it was tabled for consideration until the next meeting. AudCom will meet on June 01, 2020 and it is expected that the WG P&P will be reviewed and (hopefully) approved during that meeting.

### Website

During 2019 the web site was transitioned to a new platform, and that process was completed prior to the last meeting in the fall of 2019. Susan McNelly continues to serve as primary webmaster and is assisted by Kris Zibert. Many thanks to both Sue and Kris for keeping the website in great shape.

Respectfully submitted,

Bruce Forsyth
Chair, IEEE PES Transformers Committee
Rev. 1, May 21, 2020