

## IEEE-SA Standards Board Meeting Minutes – June 2018

**IEEE-SA Standards Board****Meeting Minutes****14 June 2018****Hilton The Hague Hotel, The Hague, Netherlands****9:00 a.m. – 5:00 p.m.****Attendees****Chair:**

Jean-Philippe Faure

**Vice Chair:**

Gary Hoffman

**Past Chair:**

John Kulick

**Secretary:**

Konstantinos Karachalios

**Members:**

Ted Burse

Guido Hiertz

Thomas Koshy

Hung Ling

Xiaohui Liu

Kevin Lu

Daleep Mohla

Andrew Myles

Paul Nikolich

Annette Reilly

Robby Robson

Dorothy Stanley

Mehmet Ulema

Phil Wennblom

Jingyi Zhou

**Members Absent:**

## IEEE-SA Standards Board Meeting Minutes – June 2018

Chris Hunter  
Dong Liu  
Ron Petersen  
Philip Winston  
Howard Wolfman

Joe Koepfinger, Member Emeritus

### **IEEE Staff:**

Matthew Ceglia  
Chirag Desai  
Karen Evangelista  
Joshua Gay  
Jonathan Goldberg  
Yvette Ho Sang  
Karen Kenney  
Karen McCabe  
Adam Newman  
Dave Ringle, Recording Secretary  
Tania Sanchez-Juarez  
Sam Sciacca  
Alpesh Shah  
Lisa Weisser

### **IEEE Outside Legal Counsel:**

Michael Lindsay – Dorsey & Whitney LLP  
Claire Topp – Dorsey & Whitney LLP

### **Guests:**

Chuck Adams  
Michael Atlass  
Evelyn Chen  
Michael Crusoe  
Stephen Dukes  
Doug Edwards  
Robert Fish  
Henk Geene  
Scott Gilfillan  
Travis Griffith  
Bob Grow [Part time via phone]  
John Messenger  
Patrick Murphy  
Jon Rosdahl  
Matteo Sabbatini  
Victoria Wang

Walter Weigel  
Helene Workman  
Don Wright  
Yu Yuan

## 1 Call to Order

Chair Faure called the meeting to order at 9:00 a.m. There was a round of introductions from all present.

## 2 Agenda

2.1 Approval of Agenda

**There was a motion to approve the agenda. The motion was approved.**

2.2 Consent Agenda

2.2.1 Approval of 08 March 2018 SASB Meeting [Minutes](#)

The consent agenda was approved during the approval of the agenda. The following SASB Members abstained on item 2.2.1:

Andrew Myles  
Paul Nikolich  
Dorothy Stanley

2.2.2 AudCom Recommendations

Accepted (standards work authorized):

- C/S2ESC Computer Society/Software & Systems Engineering Standards Committee
- PE/ED&PG Power and Energy Society/Energy Development & Power Generation
- PE/PSIM Power and Energy Society/Power System Instrumentation and Measurements
- PW/SWG Power and Energy Society/Switchgear

Conditionally Accepted (standards work authorized):

- PE/SUB Power and Energy Society/Substations

2.2.3 ICom Recommendations

### Revised/Renewed Industry Connections Activities:

**IC09-001** Industry Connections Security Group (ICSG)

ICAID: <https://ieee-sa.imeetcentral.com/p/eAAAAAAAOwbpAAAAAG-ZTfw>

Recommendation: APPROVE

**IC16-005** Consumer Healthcare Alliance

ICAID: <https://ieeesa.imeetcentral.com/p/eAAAAAAAAOzSAAAAAANZ7LA>

Recommendation: APPROVE with modifications to the deliverables

**Terminated:**

**IC16-004** Augmented Reality in the Oil/Gas/Electric Industry

Recommendation: APPROVE

**IC17-010** Automotive Emerging Technology Initiative

Recommendation: APPROVE

2.2.4 NesCom Recommendations

Withdrawal Requests:

IEEE Power and Energy Society/Transformers

**PC57.12.70-2011/Cor 1**

Standard Terminal Markings and Connections for Distribution and Power Transformers –  
Corrigendum 1: Correction of Annex A

***Recommendation: Approve PAR withdrawal***

Modified PARs:

IEEE-SASB Coordinating Committees/SCC39 – International Committee on  
Electromagnetic Safety

**P1528.5**

Measurement Procedure for the Assessment of Power Density of Human Exposure to  
Radio Frequency Fields from Wireless Devices Operating in Close Proximity to the Head  
and Body – Frequency Range of 6 GHz to 300 GHz

***Recommendation: Approve modified PAR***

**P1528.6**

Standard for Determining the Power Density of the Electromagnetic Field Associated with  
Human Exposure to Wireless Devices Operating in Close Proximity to the Head and Body  
Using Computational Techniques, 6 GHz to 300 GHz

***Recommendation: Approve modified PAR***

Extension Requests:

IEEE Instrumentation and Measurement Society/TC4 – High Frequency Measurement

**P287.1**

Standard for Precision Coaxial Connectors at RF, Microwave and Millimeter-Wave Frequencies

**Recommendation: Approve request for an extension until December 2019**

IEEE Power and Energy Society/Insulated Conductors

**P1407**

Guide for Accelerated Aging Tests for 5 kV to 46 kV Extruded Electric Power Cables Using Water-Filled Tanks

**Recommendation: Defer request for an extension until PAR expiration year 2019. Staff will provide next steps.**

IEEE Power and Energy Society/Substations

**P605**

Guide for Bus Design in Air Insulated Substations

**Recommendation: Approve request for an extension until December 2022**

IEEE Power and Energy Society/Transformers

**PC57.93**

Guide for Installation and Maintenance of Liquid-Immersed Power Transformers

**Recommendation: Approve request for an extension until December 2020**

New PARs:

IEEE Aerospace and Electronic Systems Society/Radar Systems Panel

**P521a**

Standard Letter Designations for Radar-Frequency Bands Amendment

**Recommendation: Defer new PAR until next NesCom meeting**

IEEE-SA Board of Governors/Corporate Advisory Group

**P2413.1**

Standard for a Reference Architecture for Smart City (RASC)

**Recommendation: Approve new PAR until December 2022**

IEEE Computer Society/Cybersecurity and Privacy Standards Committee

**P2790**

Standard for Biometric Liveness Detection

**Recommendation: Approve new PAR until December 2022**

IEEE Computer Society/Learning Technology

**P2247.1**

Standard for the Classification of Adaptive Instructional Systems

**Recommendation: Approve new PAR until December 2022**

IEEE Consumer Electronics Society/Standards Committee

**P2785**

Standard for Architectural Framework and General Requirements for Smart Home Systems

**Recommendation: Approve new PAR until December 2022**

**P2786**

Standard for General Requirements and Interoperability for Internet of Clothing

**Recommendation: Approve new PAR until December 2022**

IEEE Engineering in Medicine and Biology Society/Standards Committee

**P1708a**

Standard for Wearable Cuffless Blood Pressure Measuring Devices

**Recommendation: Approve new PAR until December 2022**

**P2791**

Standard for Bioinformatics Computations and Analyses Generated by High-Throughput Sequencing (HTS) to Facilitate Communication

**Recommendation: Approve new PAR until December 2022**

**P2792**

Therapeutic Electrical Stimulation Waveforms

**Recommendation: Approve new PAR until December 2022**

IEEE Power and Energy Society/Energy Development & Power Generation

**P2793**

Standard Terms and Definitions for Turbine Governing Systems

**Recommendation: Approve new PAR until December 2022**

IEEE Power and Energy Society/Power System Instrumentation and Measurements

**P2681**

Guide for Testing Medium Voltage Smart Grid Sensor and Intelligent Electronic Device Systems

**Recommendation: Approve new PAR until December 2022**

IEEE Power and Energy Society/Substations

**PC37.122.8**

Guide for the Application of Mobile Gas-Insulated Substations Rated above 52kV

***Recommendation: Approve new PAR until December 2022***

IEEE Power and Energy Society/Transformers

**PC57.167**

Guide for Monitoring Distribution Transformers

***Recommendation: Approve new PAR until December 2022***

**PC57.168**

Guide for Low Frequency Dielectric Testing for Distribution, Power, and Regulating Transformers

***Recommendation: Approve new PAR until December 2022***

IEEE Photonics Society/Standards Committee

**P2065**

Parameter Requirements and Test Method for Industrial Fiber Laser

***Recommendation: Approve new PAR until December 2022***

PARs for the Revision of Standards:

IEEE Computer Society/LAN/MAN Standards Committee

**P802.1X**

Standard for Local and Metropolitan Area Networks – Port-Based Network Access Control

***Recommendation: Approve PAR for the revision of a standard until December 2022***

IEEE Computer Society/Learning Technology

**P1484.20.1**

Standard for Learning Technology-Data Model for Reusable Competency Definitions

***Recommendation: Approve PAR for the revision of a standard until December 2022***

IEEE Communications Society/Power Line Communications

**P2030.5**

Standard for Smart Energy Profile Protocol

***Recommendation: Approve PAR for the revision of a standard until December 2022***

IEEE Dielectrics and Electrical Insulation Society/Standards Committee

**P1043**

Recommended Practice for Voltage-Endurance Testing of Form-Wound Bars and Coils  
**Recommendation: Approve PAR for the revision of a standard until December 2022**

IEEE Instrumentation and Measurement Society/TC9 – Sensor Technology

**P21451-7**

Smart Transducer Interface for Sensors and Actuators – Transducers to Radio Frequency Identification (RFID) Systems Communication Protocols and Transducer Electronic Data Sheets (TEDS) for Internet of Things

**Recommendation: Approve PAR for the revision of a standard until December 2022**

IEEE Instrumentation and Measurement Society/TC10 – Waveform Generation  
Measurement and Analysis

**P1658**

Standard for Terminology and Test Methods of Digital-to-Analog Converter Devices  
**Recommendation: Approve PAR for the revision of a standard until December 2022**

IEEE Power and Energy Society/Switchgear

**PC37.20.3**

Standard for Metal-Enclosed Interrupter Switchgear Rated above 1 kV ac up to and including 38 kV ac

**Recommendation: Approve PAR for the revision of a standard until December 2022**

**PC37.121**

Guide for Switchgear – Unit Substation – Requirements

**Recommendation: Approve PAR for the revision of a standard until December 2022**

IEEE Power and Energy Society/Transformers

**PC57.12.70**

Standard for Standard Terminal Markings and Connections for Distribution and Power Transformers

**Recommendation: Approve PAR for the revision of a standard until December 2022**

**PC57.149** Guide for the Application and Interpretation of Frequency Response Analysis for Oil-Immersed Transformers

***Recommendation: Approve PAR for the revision of a standard until December 2022***

IEEE Reliability Society/IEEE Reliability

**P1624**

Standard for Organizational Reliability Capability

***Recommendation: Approve PAR for the revision of a standard until December 2022***

IEEE Vehicular Technology Society/Rail Transportation Standards Committee

**P16**

Standard for Electrical and Electronic Control Apparatus on Rail Vehicles

***Recommendation: Approve PAR for the revision of a standard until December 2022***

2.2.5 RevCom Recommendations

**NEW**

**P802.1Qcc/Draft D2.3** (C/LM) IEEE Draft Standard for Local and Metropolitan Area Networks – Media Access Control (MAC) Bridges and Virtual Bridged Local Area Networks Amendment: Stream Reservation Protocol (SRP) Enhancements and Performance Improvements

Recommendation: APPROVE

**P802.1Qcp/Draft D2.2** (C/LM) IEEE Draft Standard for Local and Metropolitan Area Networks – Bridges and Bridged Networks Amendment: YANG Data Model

Recommendation: APPROVE

**P1934/Draft 2.0** (COM/EdgeCloud-SC) IEEE Draft Standard for Adoption of OpenFog Reference Architecture for Fog Computing

Recommendation: APPROVE

**P2030.8/Draft 13** (PE/T&D) IEEE Draft Standard for the Testing of Microgrid Controllers

Recommendation: APPROVE

**PC37.30.3/Draft 2-13** (PE/SWG) IEEE Draft Standard Requirements for High Voltage Interrupter Switches, Interrupters or Interrupting Aids used on or attached to Switches Rated for Alternating Currents above 1000 Volts

Recommendation: APPROVE

**PC37.30.5/Draft D1.3** (PE/SWG) IEEE Draft Standard for Definitions for AC High-Voltage Air Switches Rated Above 1000 V

Recommendation: APPROVE

**PC62.55-2017/Cor 1/Draft 2** (PE/SPDLV) IEEE Draft Trial Use Guide for Surge Protection of DC Power Feeds to Remote Radio Heads – Corrigendum 1

Recommendation: APPROVE

~~**P802.11aq/Draft 14** (C/LM) IEEE Draft Standard for Information Technology – Telecommunications and Information Exchange Between Systems Local and Metropolitan Area Networks – Specific Requirements Part 11: Wireless LAN Medium Access Control (MAC) and Physical Layer (PHY) Specifications Amendment 5: Pre-Association Discovery~~

~~Recommendation: APPROVE~~

**P802.11aq was removed from the SASB consent agenda and discussed as item 6.5.**

## REVISION

**P592/Draft D2** (PE/IC) IEEE Draft Standard for Insulation Shields on Medium-Voltage (15 kV – 35 kV) Cable Joints and Separable Connectors

Recommendation: APPROVE

**P802.1AR/Draft 2.6** (C/LM) IEEE Draft Standard for Local and Metropolitan Area Networks – Secure Device Identity

Recommendation: APPROVE

**P802.3/Draft D3.2** (C/LM) IEEE Draft Standard for Ethernet

Recommendation: APPROVE

**P1667/Draft D04** (C/CPSC) IEEE Draft Standard for Discovery, Authentication, and Authorization in Host Attachments of Storage Devices

Recommendation: APPROVE

**PC37.59/Draft 14** (PE/SWG) IEEE Draft Standard Requirements for Conversion of Power Switchgear Equipment

Recommendation: APPROVE

**PC57.110/Draft 6.2** (PE/TR) IEEE Draft Recommended Practice for Establishing Liquid-Immersed and Dry-Type Power and Distribution Transformer Capability when Supplying Nonsinusoidal Load Currents

Recommendation: APPROVE

### **3 SASB Standing Committee Reports**

#### 3.1 Audit Committee ([AudCom](#))

Annette Reilly, AudCom Chair, reported.

#### 3.2 Industry Connections Committee ([ICCom](#))

Kevin Lu, ICCom Chair, reported.

#### 3.3 New Standards Committee ([NesCom](#))

Ted Burse, NesCom Chair, reported.

#### 3.4 Patent Committee ([PatCom](#))

Phil Wennblom, PatCom Chair, reported.

#### 3.5 Procedures Committee ([ProCom](#))

Ted Burse, interim ProCom Chair, reported.

**There was a motion from ProCom:**

**Move to approve the proposed changes to the SASB OpMan RE: Listing of Names in the Front Matter of Standards.**

**The motion was unanimously approved.**

IEEE-SA Standards Board Operations Manual

## **8. Publications**

### **8.1 Standards**

## IEEE-SA Standards Board Meeting Minutes – June 2018

Upon approval by the IEEE-SA Standards Board, the standard shall be published as an IEEE standard. The Sponsor shall be notified of the approval in writing. Balloters with unresolved negative ballot comments shall be informed in writing of the approval and of their right to appeal.

Working group members and Sponsor ballot group members are listed in the front matter of the published IEEE standard. For entity-based standards, entities are listed and may be accompanied by the individual representing the entity.

### 3.6 Standards Review Committee ([RevCom](#))

Gary Hoffman, RevCom Chair, reported.

## 4 Standards Coordinating Committee Reports

### 4.1 SCC Coordinator's [Report](#)

Kevin Lu, SCC Coordinator reported.

**There was a motion to accept the submitted reports from SCC14 and SCC18.**

Gary Hoffman, SCC14 Chair, provided a brief verbal update RE: SCC14.

There was a motion to Divide the Question. The motion failed. [Vote: Yes=3, No=14]

**The main motion was approved. [Vote: Yes=15 Abstain=2]**

### 4.2 Scheduled Reports Due in June:

#### 4.2.1 SCC14 – Quantities, Units, and Letter Symbols Information (*Gary Hoffman*)

#### 4.2.2 SCC18 – National Fire Protection Association Standards (*Chris Hunter*)

### 4.3 [Request to Disband SCC42](#)

There was a motion:

Move to disband SCC42 Transportation per IEEE-SA Standards Board Operations Manual 4.6 *Disbanding a Standards Coordinating Committee* and to withdraw the projects it is sponsoring,

a) P2040 Standard for Connected, Automated and Intelligent Vehicles: Overview and Architecture

b) P2040.1 Standard for Connected, Automated and Intelligent Vehicles: Taxonomy and Definitions

c) P2040.2 Standard for Connected, Automated and Intelligent Vehicles: Testing and Verification

After some discussion, there was a motion to Call the Question. The motion to Call the Question was approved. [Vote: Yes=13 No=3, Abstain=1]

The vote on the main motion failed. [Vote: Yes=3, No=13, Abstain=1]

**There was a motion:**

**Move that the SASB encourages SCC42 to intensify its efforts and obtain substantive contributions from the transportation industry, with a report on results to date to the SASB in September 2018.**

**The motion was approved without opposition.**

**There was a motion:**

**Move that the SASB asks the SCC Coordinator to engage in discussions with SCC42 Transportation and with relevant IEEE Societies and other forums to discuss how IEEE can make progress in standards development for this important area and to report back at the December 2018 SASB meeting.**

**The motion was approved without opposition.**

## **5 Old Business**

### **5.1 'Sponsor' Terminology Ad Hoc [Report](#)**

Phil Wennblom, Ad Hoc Chair, reported.

**There was a motion:**

**The SASB resolves to make the following changes to terminology used in the IEEE-SA:**

**Change "Sponsor" to "Standards Committee"**

**Change "Sponsor ballot" to "Standards Association ballot (SA ballot)"**

**The motion was unanimously approved.**

The proposal will be presented to the IEEE-SA Board of Governors for its 09 July 2018 meeting.

### **5.2 Open Source Ad Hoc [Report](#)**

Phil Wennblom, Ad Hoc Chair, reported.

### **5.3 Phenomenon of Dominance Ad Hoc [Report](#)**

Gary Hoffman, Ad Hoc Chair, reported.

### **5.4 Financial Reporting Requirements**

Karen Kenney, Senior Director – Business Operations, Administration and Governance, reported. All groups are in compliance (L50S and audits). No actions needed from SASB.

## 6 Executive Session Items

Presentations given in open session:

A. 6.2 from Paul Nikolich

The IEEE 802 LAN/MAN Standards Committee Sponsor held a plenary session 5-9 March 2018 and the 802.11 Working Group held an interim session 7-11 May 2018. Please note at the March 2018 plenary session the 802 Sponsor held its customary biennial elections and confirmations of Working Group leaders. As a result, the 802.11 Working Group leadership now consists of Working Group Chair Dorothy Stanley, 1st Vice Chair Jon Rosdahl, 2nd Vice Chair Robert Stacey, Secretary Stephen McCann and Co-Technical Editors Peter Ecclesine and Robert Stacey. Osama Aboul-Magd continues as Chair of the 802.11ax Task Group.

Regarding the main subject of this report, the activities of the 802.11ax Task Group have not changed in any significant way since my reports of 13 February 2018, 13 November 2017, 31 May 2017 and 17 March 2017. In summary, based on observations from me, the Working Group leadership and Task Group leadership, participants in the 802.11ax Task Group have operated well within IEEE policies and procedures since the 802.11 Working Group 16-20 January 2017 interim session.

I request this report be provided to the IEEE SASB members and observers in open session at their 14 June 2018 meeting.

Regards,

Paul Nikolich

Sponsor Chairman of the IEEE 802 LAN/MAN Standards Committee

B. 6.3 .ppt from Sam

No questions from observers.

The SASB entered Executive Session at 1:02 p.m.

Remaining in the room: SASB Members, BOG Members, IEEE-SA Senior Directors, IEEE-SA Governance staff, IEEE Legal Counsel, Matthew Ceglia, Yvette Ho Sang

6.1 Legal Update

6.2 Follow-up on the SASB Ratification of the Actions taken by the IEEE 802 LMSC Sponsor in Connection with the 802.11 TGax Complaint

6.3 IEEE Participation on NFPA Committees

6.4 SCC18 Oversight Committee Report, Part 1

6.5 P802.11aq RevCom Submittal  
[Time-Specific: 2:30 p.m.]

Bob Grow attended via phone for this item.

This item began at 2:40 p.m.

Executive Session concluded at 4:07 p.m.

#### REPORT OUT

- The SASB recommends that SCC18 nominate external representatives to NFPA CMPs and TCs based on their qualifications irrespective of their employer affiliation.
  - The SASB empowers staff to update the SCC18 web site accordingly.
- The SASB approved the RevCom recommendation to approve P802.11aq/Draft 14.

#### **7 SCC18 Oversight Committee [Report](#), Part 2**

John Kulick, OC Chair, reported.

**There was a motion:**

**When SCC18 is unable to reach a consensus position on any NFPA related ballot under consideration, the ER is directed to submit an “Abstain” ballot response with only the accompanying comment/explanation:**

**“IEEE has not reached consensus on this item.”**

**The motion was approved by unanimous consent.**

#### **8 New Business**

8.1 Recent Interactions between RAC and RevCom Discussion

Andrew Myles reported.

**There was a motion:**

**Move that the SASB directs the SASB Chair to bring to the BOG’s attention potential conflict of interest within the RAC and the problem that RAC mandatory coordination positions may not be formalized.**

**The motion was approved by unanimous consent.**

#### **9 IEEE-SA Managing Director’s Report**

Konstantinos Karachalios, IEEE-SA Managing Director, reported.

#### **10 Informational Reports**

10.1 CAG [Report](#)

Chuck Adams reported.

10.2 IEEE-SA President's [Report](#)

Don Wright, IEEE-SA President, reported.

10.3 SASB Chair's [Report](#)

Chair Faure reported.

Chair Faure established an ad hoc to look at SASB Executive Session meeting minutes. A call for members [SASB Members only] will be sent via email. Andrew Myles will chair the ad hoc.

## 11 Next Meeting

The next SASB meeting is scheduled for Thursday, 27 September 2018, via teleconference/webex.

## 12 SASB Resolutions

- The SASB recommends that SCC18 nominate external representatives to NFPA CMPs and TCs based on their qualifications irrespective of their employer affiliation. The SASB empowers staff to update the SCC18 web site accordingly.
- When SCC18 is unable to reach a consensus position on any NFPA related ballot under consideration, the ER is directed to submit an Abstain ballot response with only the accompanying comment/explanation: *"IEEE has not reached consensus on this item."*
- The SASB encourages SCC42 to intensify its efforts and obtain substantive contributions from the transportation industry, with a report on results to date to the SASB in September 2018.
- The SASB asks the SCC Coordinator to engage in discussions with SCC42 Transportation and with relevant IEEE Societies and other forums to discuss how IEEE can make progress in standards development for this important area and to report back at the December 2018 SASB meeting.

## 13 Adjournment

Chair Faure thanked Tania Sanchez-Juarez for doing an excellent job as the on-site meeting planner.

There being no further business, the meeting was adjourned at 5:45 p.m.