

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

**IEEE-SA Standards Board  
Meeting Minutes  
08 March 2018  
Tokyo Hilton Hotel, Tokyo, Japan  
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  
Chris Hunter  
Thomas Koshy  
Hung Ling  
Dong Liu  
Xiaohui Liu  
Kevin Lu  
Annette Reilly  
Robby Robson  
Mehmet Ulema  
Phil Wennblom  
Jingyi Zhou

**Members Absent:**

Daleep Mohla  
Andrew Myles

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

Paul Nikolich  
Ron Petersen  
Dorothy Stanley  
Philip Winston  
Howard Wolfman

Joe Koepfinger, Member Emeritus

### **IEEE Staff:**

Matthew Ceglia  
Karen Evangelista  
Mary Ellen Hanntz  
Yvette Ho Sang  
Karen Kenney  
Soo Kim  
Adam Newman  
Dave Ringle, Recording Secretary  
Sam Sciacca  
Rudi Schubert  
Lisa Weisser

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

Claire Topp – Dorsey & Whitney LLP

### **Guests:**

Chuck Adams  
Michael Atlass  
Stephen Dukes  
Doug Edwards  
Travis Griffith  
Jim Harlan  
Chiaki Ishikawa  
Michael Janezic  
Patrick Murphy  
Matteo Sabbatini  
Don Wright  
Song Yang

## **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](#)

Chair Faure noted that item 8.4 would occur immediately after approval of the agenda.

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

2.2 Consent Agenda

2.2.1 Approval of 06 December 2017 SASB Meeting [Minutes](#)

2.2.2 AudCom Recommendations

Accepted (standards work authorized):

- PE/NPE Power and Energy Society/Nuclear Power Engineering

Motion about PES Sponsor P&P Template Usage:

AudCom to set the date of 31 March 2018 for ending use of 2017 PES Sponsor P&P Template.

2.2.3 ICom Recommendations

### **New Industry Connections Activities:**

**IC18-001-01** Facilities Joint Use

ICAID: <https://ieee-sa.imeetcentral.com/p/eAAAAAAAOX29AAAAAHTI2iw>

Recommendation: Approve with modification to add transition plan as a deliverable.

**IC18-002-01** IP Security Program

ICAID: <https://ieee-sa.imeetcentral.com/p/eAAAAAAAOX2-AAAAAEdcS3s>

Recommendation: Approve

### **Revised/Renewed Industry Connections Activities:**

**IC16-002** The Global Initiative on Ethics of Autonomous and Intelligent Systems

ICAID: [https://ieee-sa.imeetcentral.com/p/eAAAAAAAOOWNNAAAAAH\\_ZjRw](https://ieee-sa.imeetcentral.com/p/eAAAAAAAOOWNNAAAAAH_ZjRw)

Recommendation: Approve

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

ICAID: <https://ieee-sa.imeetcentral.com/p/eAAAAAAAOXIAAAAABK4bHM>

Recommendation: Approve renewal until the end of 2018 and staff to provide guidance on coordinating with the 2048 standards efforts and the AR/VR advisory group as appropriate.

**IC16-006** International Roadmap for Devices and Systems (IRDS)

ICAID: <https://ieee-sa.imeetcentral.com/p/eAAAAAAAOYYQAAAAAHu-fws>

Recommendation: Approve

**IC16-001** Open Data

ICAID: <https://iee-SA.imeetcentral.com/p/eAAAAAAAOXNzAAAAADYdUsI>

Recommendation: Approve

2.2.4 NesCom Recommendations

Modified PARs:

IEEE Industry Applications Society/Technical Books Coordinating Committee

**P3004.7**

Recommended Practice for the Protection of Conductors Used in Industrial and Commercial Power Systems

***Recommendation: Approve modified PAR***

IEEE Microwave Theory and Techniques Society/Standards Coordinating Committee

**P1765**

Trial-Use Recommended Practice for Estimating the Uncertainty in Error Vector Magnitude of Measured Digitally Modulated Signals for Wireless Communications

***Recommendation: Approve modified PAR***

IEEE Power and Energy Society/Energy Development & Power Generation

**P2775**

Technical Guide for Smart Hydroelectric Power Plant

***Recommendation: Approve modified PAR***

Extension Requests:

IEEE Power and Energy Society/Nuclear Power Engineering

**P2411**

Human Factors Engineering Guide for the Validation of System Designs and Integrated Systems Operations at Nuclear Facilities

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

New PARs:

IEEE Engineering in Medicine and Biology Society/Standards Committee

**P2727**

Standard for General Vocabulary for Conformity Assessment of Medical Devices with Measuring Function

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

**P2727.1**

Standard for Conformity Assessment Testing of Cardiac Defibrillators for Legal Metrology Purposes

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

**P2730**

Standard for Classification, Terminologies, and Definitions of Medical Robots

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

IEEE Industrial Electronics Society/Industrial Electronics Society Standards Committee

**P2668**

Standard for Maturity Index of Internet-of-things: Evaluation, Grading and Ranking

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

IEEE Power and Energy Society/Insulated Conductors

**P1511.2**

Guide for Investigating and Analyzing Failures of Joints on Extruded Shielded Power Cables on Systems Rated 5 kV through 46 kV

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

IEEE Power and Energy Society/Power System Communications and Cybersecurity

**P2658**

Guide for Cybersecurity Testing in Electric Power Systems

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

IEEE Power and Energy Society/Power System Relaying and Control

**P2030.100.1**

Monitoring and Diagnostics of IEC 61850 Generic Object Oriented Status Event (GOOSE) and Sampled Values Based Systems

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

**PC37.300**

Guide for Centralized Protection and Control (CPC) Systems within a Substation

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

IEEE Power and Energy Society/Transmission and Distribution

**P2030.11**

Distributed Energy Resources Management Systems (DERMS) Functional Specification

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

**P2745.1**

Guide for Technology of Unified Power Flow Controller Using Modular Multilevel Converter: Part 1 Functions

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

**P2745.2**

Guide for Technology of Unified Power Flow Controller Using Modular Multilevel Converter: Part 2 Terminology

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

**P2745.3**

Guide for Technology of Unified Power Flow Controller Using Modular Multilevel Converter: Part 3 Thyristor Bypass Switch

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

**P2746**

Guide for Evaluating AC Interference on Linear Facilities Co-Located Near Transmission Lines

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

IEEE Power and Energy Society/Transformers

**PC57.166**

Guide for Acceptance and Maintenance of Insulating Liquids in Transformers and Related Equipment

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

IEEE-SASB Coordinating Committees/SCC21 – Fuel Cells, Photovoltaics, Dispersed Generation, and Energy Storage

**P1547.9**

Guide to Using IEEE Standard 1547 for Interconnection of Energy Storage Distributed Energy Resources with Electric Power Systems

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

IEEE Vehicular Technology Society/Rail Transportation Standards Committee

**P2752**

Guide for Multi-Point Grounding System of Trains in Electrified Railway

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

**P2753**

Guide for the Measurement of Pantograph Off-Line and Evaluation of Current Collection Performance for High Speed Railway

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

PARs for the Revision of Standards:

IEEE Computer Society/Design Automation

**P2401**

Standard Format for LSI-Package-Board Interoperable Design

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

IEEE Computer Society/Learning Technology

**P1484.11.3**

Standard for Learning Technology Extensible Markup Language (XML) Schema Binding for Data Model for Content Object Communication

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

**P1484.12.3**

Standard for Extensible Markup Language (XML) Schema Definition Language Binding for Learning Object Metadata

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

IEEE Engineering in Medicine and Biology Society/IEEE 11073 Standards Committee

**P11073-10442**

Health Informatics – Personal Health Device Communication Part 10442: Device Specialization – Strength Fitness Equipment

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

IEEE Power and Energy Society/Electric Machinery

**PC50.12**

Standard for 50 Hz and 60 Hz Synchronous Generators and Generator/Motors Coupled to Hydraulic Turbines and Rated 5 MVA and Above

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

IEEE Power and Energy Society/Nuclear Power Engineering

**P577**

Standard Requirements for Reliability Analysis in the Design and Operation of Safety Systems for Nuclear Power Generating Stations and Other Nuclear Facilities

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

**P765**

Standard for Preferred Power Supply (PPS) for Nuclear Power Generating Stations (NPGS)

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

IEEE Power and Energy Society/Substations

**P525**

Guide for the Design and Installation of Cable Systems in Substations

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

**P837**

Standard for Qualifying Permanent Connections Used in Substation Grounding

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

**PC37.122**

Standard for High Voltage Gas-Insulated Substations Rated Above 52 kV

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

IEEE Power and Energy Society/Transmission and Distribution

**P1695**

Guide to Understanding, Diagnosing, and Mitigating Stray and Contact Voltage

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

2.2.5 RevCom Recommendations

**NEW**

**P802.11ak/Draft 6.0** (C/LM) IEEE Draft Standard for Telecommunications and Information Exchange between Systems – Local and Metropolitan Area Networks – Part 11: Wireless LAN Medium Access Control (MAC) and Physical Layer (PHY) Specifications – Amendment 4: Enhancements for Transit Links Within Bridged Networks



Recommendation: APPROVE

**P1641.1a/Draft 9** (SASB/SCC20) IEEE Draft Guide for the Use of IEEE Std 1641, IEEE Standard for Signal and Test Definition – Amendment 1: Addition of Guidelines for Producing Reusable Test Signal Frameworks for Use on Platforms Utilizing Automatic Test Markup Language

Recommendation: APPROVE

**P2030.101/Draft 11.6** (PE/SUB) IEEE Draft Guide for Designing a Time Synchronization System for Power Substations

Recommendation: APPROVE

**PC37.100.2/Draft 8.3** (PE/SWG) IEEE Draft Standard for Common Requirements for Testing of AC Capacitance Current Switching Devices over 1000 V

Recommendation: APPROVE

## REVISION

**P384/Draft 2** (PE/NPE) IEEE Draft Standard Criteria for Independence of Class 1E Equipment and Circuits

Recommendation: APPROVE

**P1527/Draft 10** (PE/SUB) IEEE Draft Recommended Practice for the Design of Buswork Located in Seismically Active Areas

Recommendation: APPROVE

### 3 Legal

#### 3.1 [SASB Responsibilities](#)

Claire Topp, IEEE Outside Legal Counsel, presented.

The SASB entered Executive Session at 9:45 a.m.

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

#### 3.2 Update [Executive Session]

- 3.3 Follow-up on the SASB Ratification of the Actions taken by the IEEE 802 LMSC Sponsor in Connection with the 802.11 TGax Complaint  
[Executive Session]

The SASB concluded Executive Session at 10:07 a.m.

#### **4 Appointment of the SASB Vice Chair**

There were three candidates who had been nominated and accepted the nomination: Ted Burse, Gary Hoffman, and Paul Nikolich.

The SASB conducted a ballot.

Gary Hoffman was appointed as the SASB Vice Chair.

#### **5 SASB Standing Committee Reports**

- 5.1 Audit Committee ([AudCom](#))

Annette Reilly, AudCom Chair, reported.

- 5.2 Industry Connections Committee ([ICCom](#))

Kevin Lu, ICCom Chair, reported.

- 5.3 New Standards Committee ([NesCom](#))

Ted Burse, NesCom Chair, reported.

- 5.4 Patent Committee ([PatCom](#))

Phil Wennblom, PatCom Chair, reported.

- 5.5 Procedures Committee ([ProCom](#))

Ted Burse, interim ProCom Chair, reported.

Chair Faure stated that he is creating an SASB ad hoc to take over the work that was being done by the ProCom Ad Hoc on Interest Groups, as the ProCom ad hoc's work had expanded beyond its charter and sufficient groundwork has been done.

The membership of the SASB ad hoc will be comprised of SASB Members and IEEE-SA staff only.

Chair: Gary Hoffman

Members: A call for participation will be issued to SASB Members.

Charter: Review how the IEEE-SA deals with the phenomenon of dominance

Chair Faure thanked Ted Burse for the work done in the ProCom ad hoc.

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

Gary Hoffman, RevCom Chair, reported.

**6 Standards Coordinating Committee Reports**

6.1 SCC Coordinator's [Report](#)

Kevin Lu, SCC Coordinator, reported.

**There was a motion to accept the submitted reports from SCC4, SCC20, and SCC22. The motion was unanimously approved.**

6.2 Scheduled Reports Due in March:

6.2.1 [SCC4](#) – Electrical Insulation (*Evanne Wang*)

6.2.2 [SCC20](#) – Test and Diagnosis for Electronic Systems (*Mike Seavey*)

6.2.3 [SCC22](#) – Power Quality (*Bill Howe*)

**7 Old Business**

7.1 'Sponsor' Terminology Ad Hoc [Report](#)

Phil Wennblom, Ad Hoc Chair, reported.

Some SASB Members offered suggestions.

Guido Hiertz and Xiaohui Liu will be added to the ad hoc.

7.2 Open Source Ad Hoc [Report](#)

Phil Wennblom, Ad Hoc Chair, reported.

The SASB entered Executive Session at 11:13 a.m.

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

7.3 IEEE Participation on NFPA Committees  
[*Executive Session*]

7.4 SCC18 Oversight Committee Report  
[*Executive Session*]

The SASB recessed for lunch at 11:54 a.m.

The SASB reconvened at 1:00 p.m.

Not in the room: Chris Hunter

[Mehmet Ulema left for the day at 1:25 p.m.]

The SASB concluded Executive Session at 2:17 p.m.

REPORT OUT:

The SASB approved the continuance of the SASB SCC18 Oversight Committee.

**8 New Business**

8.1 Approval of [2019 SASB Calendar](#)

Chair Faure reported.

**There was a motion to approve the 2019 SASB calendar. The motion was approved. [Vote: Yes=11, No=2 (Robson, Wennblom), Abstain=1 (Ling)]**

8.2 GDPR [Update](#)

No verbal update was provided.

8.3 [Financial Reporting Requirements](#)

Sam Sciacca, Senior Director – Technical Program Operations, presented.

8.4 [Presentation](#) on IEEE P2050 and TRON Forum

This item occurred immediately after approval of the agenda.

Stephen Dukes, IEEE-SA Board of Governors Member, introduced the topic.

Chiaki Ishikawa, Secretary for the P2050 Working Group, presented.

A video message from Ken Sakamura, Chair of TRON Forum and IEEE Life Fellow, was shown.

The SASB thanked Ken Sakamura and Chiaki Ishikawa for the presentation, the video, and for their assistance in initiating the P2050 project.

Konstantinos Karachalios, IEEE-SA Managing Director, thanked Stephen Dukes for helping to bring the TRON specification into IEEE.

**9 IEEE-SA Managing Director's [Report](#)**

Konstantinos Karachalios, IEEE-SA Managing Director, reported.

**10 Reports from Government Observers**

10.1 NIST [Report](#)

Michael Janezic, Government Observer to the SASB from U.S. NIST, reported.

**11 Informational Reports**

11.1 CAG [Report](#)

Chuck Adams, CAG Member, reported.

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

IEEE-SA President Don Wright reported.

11.3 SASB Chair's [Report](#)

Chair Faure reported.

**12 [Next Meeting](#)**

The next SASB meeting is scheduled for Thursday, 14 June 2018, in The Hague, Netherlands.

**13 SASB Resolutions**

None

**14 Adjournment**

There being no further business, the meeting was adjourned at 4:12 p.m.