

IEEE STANDARDS ASSOCIATION

RAISING THE WORLD'S STANDARDS

IEEE SA Standards Board (SASB) New Member Orientation

David Law, SASB Chair
2024



ADVANCING TECHNOLOGY FOR HUMANITY

ABOUT IEEE

- Inspiring a global community of innovation
- Where forward-thinking professionals collaborate to:
 - Discover what's next in tech innovation
 - Build technical communities
 - Shape and share research
 - Engage in Humanitarian activities
 - **Create global standards**

STANDARDIZATION

Creating markets and protecting public safety and well-being through standards development.



OVERVIEW

2100+ standards in a broad range of industries—artificial intelligence systems, power and energy, consumer electronics, biomedical and healthcare, information technology, telecommunications, transportation, and more.

- Over 35,000 participants from over 160 countries

PROVIDING

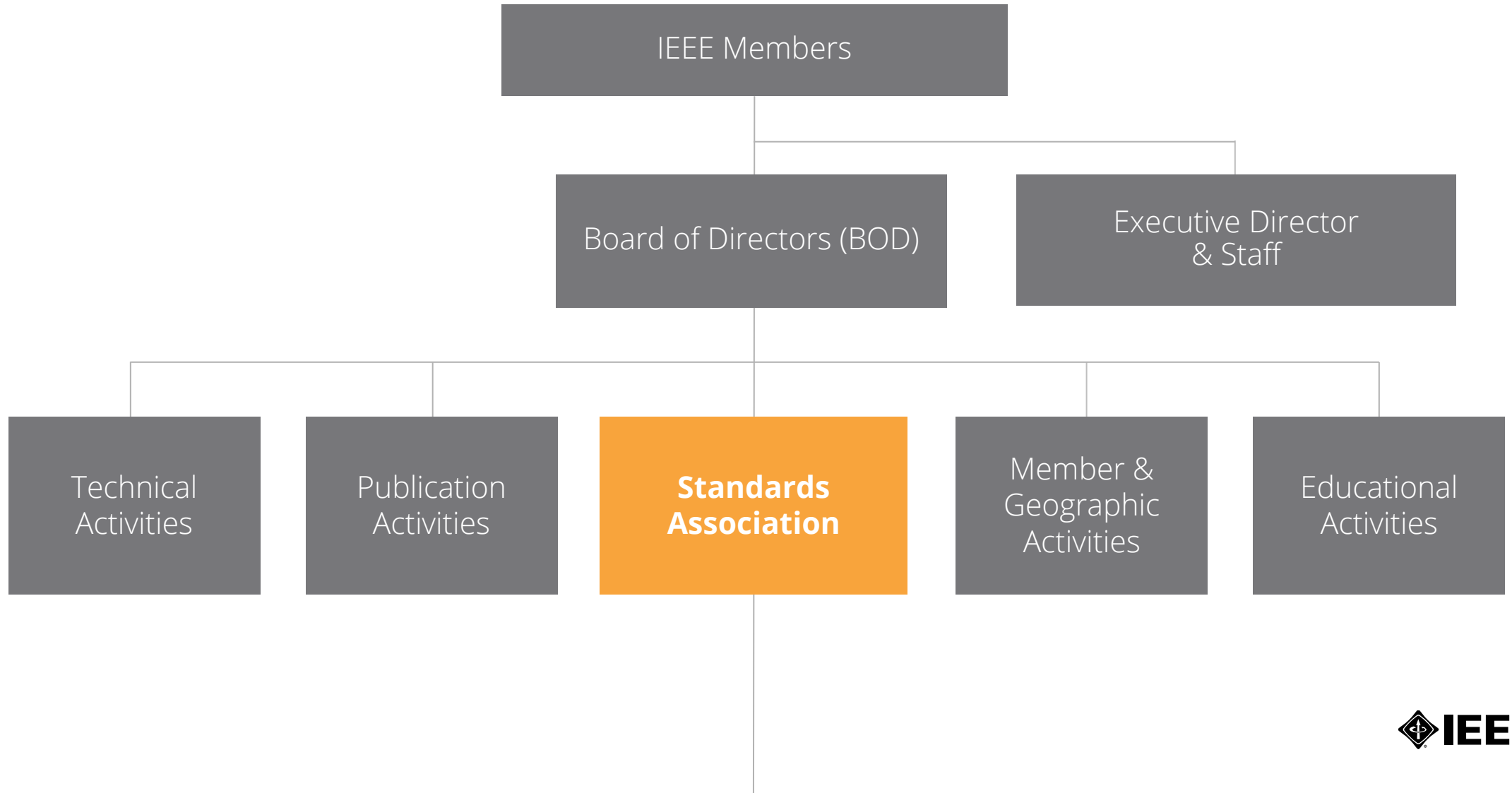
- Development of globally open, market-driven standards that are voluntarily adopted, based on merit
- Collaboration and consensus-building platforms that adhere to fair and equitable practices, proven policies and procedures
- Two methods of standards development:
 - Individual
 - Entity

SOME EXAMPLES

- Distributed Energy Resources—IEEE 1547™ enabling smart interconnection and interoperability with the electricity grid
- Ethernet & WIFI—IEEE 802® standards keeping the world connected
- AI Systems—IEEE 7000™ standards addressing ways to protect personal data and ensure safety in AI systems

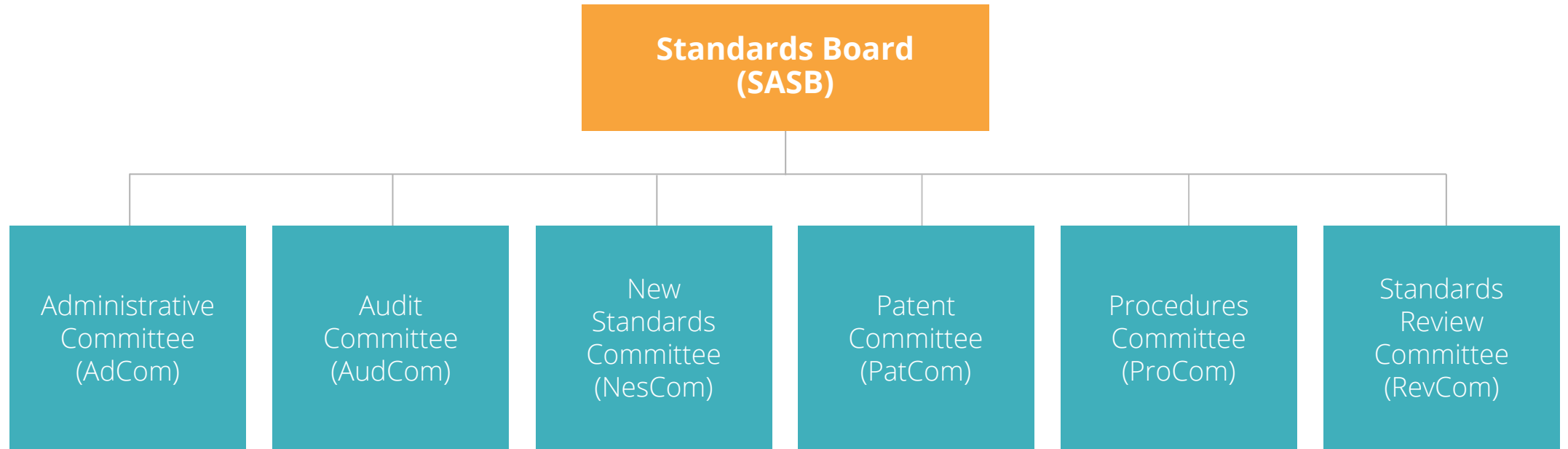
IEEE STANDARDS ASSOCIATION

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COMMITTEES OF THE SASB (ITSELF A COMMITTEE OF THE IEEE SA BOG)



IEEE SA Standards Board Scope

The IEEE SA Board of Governors (BOG) established and appointed a Standards Board to:

- Encourage and coordinate the development and revision of IEEE standards
- Approve the initiation of IEEE standards projects
- Review them for consensus, due process, openness, and balance
- Give final approval to IEEE standards prior to publication and
- Process all necessary appeals.

See: <https://standards.ieee.org/about/policies/sa-opman/sect5.html>

IEEE SA Values

Five principles guide the
IEEE standards development process

Consensus

Due process

Openness

Right of appeal

Balance

This ensures:

- Collaboration and community building
- Global reach and timely market relevance
- Technical integrity and excellence by the Volunteers that participate in our process

See: <https://standards.ieee.org/develop/>

A Large and Diverse Ecosystem

| | | | |
|---|----|--|------------|
| IEEE Computer Society (C) | 18 | IEEE Electromagnetic Compatibility Society (EMC) | 1 |
| IEEE Power and Energy Society (PES) | 16 | IEEE Geoscience and Remote Sensing Society (GRSS) | 1 |
| IEEE Instrumentation and Measurement Society (IM) | 10 | IEEE Industrial Electronics Society (IES) | 1 |
| IEEE Communications Society (COM) | 9 | IEEE Intelligent Transportation Systems Society (ITS) | 1 |
| IEEE Vehicular Technology Society (VT) | 7 | IEEE Magnetics Society (MS) | 1 |
| IEEE SA Board of Governors (BOG) | 6 | IEEE Microwave Theory and Techniques Society (MTT) | 1 |
| IEEE Consumer Technology Society (CTS) | 6 | IEEE Nanotechnology Council (NTC) | 1 |
| IEEE Industry Applications Society (IAS) | 6 | IEEE Photonics Society (PHO) | 1 |
| IEEE Circuits and Systems Society (CASS) | 5 | IEEE Power Electronics Society (PEL) | 1 |
| IEEE Broadcast Technology Society (BTS) | 3 | IEEE Reliability Society (RS) | 1 |
| IEEE Aerospace and Electronic Systems Society (AES) | 2 | IEEE Robotics and Automation Society (RAS) | 1 |
| IEEE Engineering in Medicine and Biology Society (EMB) | 2 | IEEE Sensors Council (SEN) | 1 |
| IEEE Antennas and Propagation Society (APS) | 1 | IEEE Signal Processing Society (SPS) | 1 |
| IEEE Computational Intelligence Society (CIS) | 1 | IEEE Society on Social Implications of Technology (SSIT) | 1 |
| IEEE Council on Electronic Design Automation (CEDA) | 1 | IEEE Systems, Man, and Cybernetics Society (SMC) | 1 |
| IEEE Council on RFID (CRFID) | 1 | IEEE Ultrasonics, Ferroelectrics and Frequency Control Society (UFFC) | 1 |
| IEEE Dielectrics and Electrical Insulation Society (DEI) | 1 | | |
| IEEE Education Society (EDU) | 1 | Total Standards Committees | 112 |

Important to Remember

- Please keep in mind: All Standards Committees have their own culture, and it is not necessarily the same as your “Home” Standards Committee
- They may conduct business differently and that is not necessarily a bad thing
- When you take part in any IEEE SA governance activity, please remember that you are to act in the best interest of the IEEE SA and not your “Home” Standards Committee or your affiliation

You and the IEEE SASB

- 1. Call for volunteers by IEEE SA Nominations and Appointments Committee (N&A)**
 - N&A recommends appointments to SASB to the IEEE SA Board of Governors (BOG)
- 2. BOG appoints:**
 - Chair of Standards Board
 - Members of Standards Board
- 3. Chair of Standards Board appoints:**
 - Chairs of SASB Standing Committees
 - Members of SASB Standing Committees
 - SASB appeals pool
- 4. SASB Members have full voting rights for SASB matters, and are also Ex-Officio Members (without voting rights) of NesCom and RevCom**

Standing Committee Members

- 1. You have been selected by the SASB Chair to participate in:**
 - AudCom: Audit Committee
 - NesCom: New Standards Committee
 - RevCom: Standards Review Committee
 - PatCom and ProCom are reserved for SASB or BOG Members
- 2. As a Standing Committee Member:**
 - You have full voting rights in the committees you serve
 - You can participate in other Standing Committee and SASB meeting discussions, but you have no vote
- 3. For next year/s appointments, if you are interested in serving on the SASB, please note this on your candidate form**

IEEE SA STANDARDS BOARD ROSTER

2024 ROSTER:

- **David Law:** Chair
- **To be appointed by SASB:** Vice Chair
- **Gary Hoffman:** Past Chair
- **Alpesh Shah:** Secretary, non-voting

MEMBERS

- Sara Biyabani
- Ted Burse
- Stephen Dukes
- Doug Edwards
- Travis Griffith
- Guido Hiertz
- Ron Hotchkiss
- Hao Hu
- Yousef Kimiagar
- Howard Li
- Xiaohui Liu
- Haiying (John) Lu
- Kevin Lu
- Hiroshi Mano
- Paul Nikolich (TAB Rep.)
- Robby Robson
- Jon Rosdahl
- Lei Wang
- Keith Waters
- Sha Wei
- Philip Winston
- Don Wright

MEMBER EMERITUS

- Joseph Koepfinger, non-voting

ADMINISTRATOR

- Dave Ringle

GOVERNMENT ENGAGEMENT PROGRAM ON STANDARDS (GEPS) REPRESENTATIVES

Afghanistan, Afghanistan Telecom Regulatory Authority (ATRA)

Algeria, Ministry of Post and Telecommunications (MPT)

Angola, Institute of Communications (INACOM)

Argentina, National Communications Entity (ENACOM)

Australia, Australian Communications and Media Authority (ACMA)

Australia, Department of Industry, Science and Resources (DISR)

Australia, Australian Digital Health Agency (DigitalHealth)

Bangladesh, Aspire to Innovate (a2i)

Barbados, Ministry of Industry, Innovation, Science and Technology (MIST)

Bhutan, Bhutan Standards Bureau (BS B)

Bhutan, Department of Renewable Energy (DRE)

Brazil, National Telecommunications Agency (Anatel)

Brazil, Ministry of Science, Technology, Innovation and Communication (MCTIC)

Burkina Faso, Ministry of Digital Economy and Post Development (DEPD)

Ahmed Javed (primary);
Mohammad Aqeb Kohistani (alternate)

Laredj Zerrouki

Manuel de Carvalho (primary);
Samuel Murca (alternate)

Sergio Daniel D'uva (primary)
Guillermo Montenegro (alternate)

Allan Major (primary)

Dominic Byrne (alternate)

Philip Crothers

Ryan Mavin (primary)

Cath Koetz (alternate)

Mohammad Salahuddin

Renee Evelyn

Kesang Phuntsho Namgay (primary)

Tek Bahadur Chhetri (alternate)

Jamyang Tempa

Nilo Pasquali (primary)

Vinicius Oliveira Caram (alternate)

José Gustavo Sampaio Gontijo

Lydia Mai Ouedraogo (primary)

Richard Anago (alternate)

GOVERNMENT ENGAGEMENT PROGRAM ON STANDARDS (GEPS) REPRESENTATIVES

Burundi, Telecommunications Regulatory and Control Agency (ARCT)
Burundi, Ministry of Communication, ICT, and Media (MINCOTIM)
Canada, Ministry of Economic Development, Job Creation and Trade (MEDJCT)

Caribbean Telecommunications Union (CTU)

Chile, Ministry of Transport and Telecommunications (MTT)
Egypt, National Telecom Regulatory Authority (NTRA)
France, Ministry for Europe and Foreign Affairs (MEAE)
Germany, Federal Ministry for Economic Affairs and Climate Action (BMWK)
Germany, Federal Network Agency for Electricity, Gas, Telecommunications, Post and Railway (BNetzA)

Ghana, National Communications Authority (NCA) |

Greece, Ministry of Digital Governance (MoDG)
India, Automobile Research Association of India (ARAI)

India, Bureau of Indian Standards (BIS)
India, Centre for Development of Advanced Computing (C-DAC)

India, Centre for Development of Telematics (C-DOT)

Gael Ingabire
Francis Olivier Cubahiro
Jim Boyden (primary)
David Park (alternate)
Rodney Taylor (primary)
Nigel Cassimire (alternate)
Danae Diez de Medina Contreras
Ramy Ahmed Fathy
Nora Bellec
Karl Weber
Taras Holoyad (primary)
Markus Maas (alternate)
saac Boateng (primary)
Roland Yaw Kudozia (alternate)
Sophia Papathanasopoulou
Anand Deshpande (primary)
Abhijit Mulay (alternate)
Priti Bhatnagar
Hemant Darbari (primary)
Prמוד PJ (alternate)
Rajkumar Upadhyay (primary)
Sandeep Agrawal (alternate)

GOVERNMENT ENGAGEMENT PROGRAM ON STANDARDS (GEPS) REPRESENTATIVES

India, Central Electricity Authority (CEA)

India, Power Grid Corporation of India Limited (POWERGRID)

India, Telecommunication Engineering Center (TEC)

India, Telecom Regulatory Authority of India (TRAI)

Israel, Ministry of Communications (MOC)

Israel, Public Utility Authority (PUA)

Jamaica, Office of Utilities Regulation (OUR)

Japan, Ministry of Internal Affairs and Communications (MIC)

Jordan, Telecommunications Regulatory Commission (TRC)

Kazakhstan, Ministry of Digital Development, Innovations and Aerospace Industry (MDDIAI)

Kenya, Communications Authority of Kenya (CA)

Republic of Korea, Korean Agency for Technology and Standards (KATS)

Republic of Korea, Ministry of Science and ICT (MSIT)

Mexico, Federal Telecommunications Institute (IFT)

Nigeria, Federal Ministry of Communications & Digital Economy (FMCDE)

Ashok Rajput (primary)

Vandana Singhal (alternate)

Mr. Abhishek (primary)

S. B. R. Rao (alternate)

Avinash Agarwal (primary)

Harsh Sharma (alternate)

Anil Bhardwaj (primary)

Rakesh Purohit (alternate)

Ehoud Peleg

Igor Stepensky

Courtney Francis

Kei Narisawa

Nael Adwan

Abilkair Bolatbayev

Nelson Wasilwa (primary)

Joseph Onaya (alternate)

Soo Jin Park

Sungdong Min

Fernando Butler Silva (primary)

Victor Manuel Martínez Vanegas (alternate)

A. Abubakar Ladan (primary)

Kahir Salibu (alternate)

GOVERNMENT ENGAGEMENT PROGRAM ON STANDARDS (GEPS) REPRESENTATIVES

Nigeria, National Information Technology Development Agency (NITDA)

Panama, National Secretariat of Energy (SNE)

Paraguay, National Telecommunications Commission (CONATEL)

Peru, Ministry of Transport and Communications (MTC)

Poland, Ministry of Digital Affairs

Qatar, Ministry of Communications and Information Technology (MCIT)

Romania, National Authority for Management and Regulation in Communications (ANCOM)

Romania, National Cyber Security Directorate (DNSC)

Rwanda, Ministry of ICT & Innovation (MINICT)

Rwanda, Ministry of Infrastructure (MININFRA)

Rwanda, Rwanda Utilities Regulatory Authority (RURA)

Saudi Arabia, Communications and Information Technology Commission (CITC)

Republic of Senegal, Ministry of Digital Economy and Telecommunications

Singapore, AI Singapore (AISG)

Singapore, Infocomm Media Development Authority (IMDA)

South Africa, Department of Communications & Digital Technologies (DCDT)

South Africa, Independent Communications Authority of South Africa (ICASA)

South Africa, Permanent Mission of South Africa (PMUN)

Tanzania, Communications Regulatory Authority (TCRA)

Oladejo Olawumi

Guadalupe Gonzalez

Nicolas Evers

Wilmer Caról Azurza Neyra

Agnieszka Chruszcz

Sadeem Abdulla M Al Mahmied

Florin Dragomir (primary)

Mihail Ion (alternate)

Gabriel Dinu

Angelos Munezero

Rene Nsanabo Kageruka

Yvonne Umutoni

Mansour Al Qurashi

Achime Malick Ndiaye

Sengmeng Koo

Woon Hau Chin

Elliot Sibeko

Bethuel Nkgadime

Cynthia Lesufi

Mwesigwa Felician (primary)

Beatrice Lema (alternate)

GOVERNMENT ENGAGEMENT PROGRAM ON STANDARDS (GEPS) REPRESENTATIVES

Turkey, Information and Communication Technologies Authority (ICTA)

Uganda, Uganda Communications Commission (UCC)

Ukraine, Ukrainian Scientific Research and Training Center for Standardization, Certification and Quality Problems (SE UkrNDNC)

United Kingdom, Department for Science, Innovation and Technology (DSIT)

United Kingdom, Office of Communications (Ofcom)

United States, Department of Homeland Security (DHS)

United States, Department of State (DoS)

United States, National Institute of Standards and Technology (NIST)

United States, National Telecommunications and Information Administration (NTIA)

Zambia, Zambia Information and Communications Technology Authority (ZICTA)

Afsin Buyukbas (primary)

Fazli Kaybal (alternate)

Susan Nakanwagi (primary)

George Kasangaki (alternate)

Anna Martynenko

Simon Hicks (primary)

Marek Blachut (alternate)

Simon Burley

Philip Mattson (primary)

Yonas Nebiyeloul-Kifle (alternate)

Jonathan Baas (primary)

Andrew Hamrick (alternate)

Jason Coder (primary); Marla Dowell (alternate)

Daniel Henry

Patricia Maluti

Audit Committee (AudCom)

- Maintains baseline P&P documents
- Reviews and recommends SASB action on acceptance of procedures of Standards Committees
 - Accept, visibly under development, not accepted
 - May be on SASB Consent Agenda or for individual action
- Will review selected WG P&P
- Goal: that all Standards Committees have fair and open processes and procedures, and that they comply with them

AudCom Members

2024 ROSTER:

- **Kevin Lu:** Chair

MEMBERS

- Sara Biyabani
- Doug Edwards
- Travis Griffith
- Guido Hiertz
- Tyler Jaynes
- Thomas Koshy
- Joseph Levy
- Howard Li
- Haiying (John) Lu
- Daleep Mohla
- Annette Reilly
- Jon Rosdahl
- Daidi Zhong

ADMINISTRATOR

- Teresa Belmont

New Standards Committee (NesCom)

- **Makes recommendations to the SASB regarding approval of the Project Authorization Requests (PARs)**
- **Reviews Project Authorization Requests (PARs) to ensure that proposed projects are within the scope and purpose of IEEE, that standards projects are assigned to the proper Society or other organizational body, and that interested parties are appropriately represented in the development of IEEE standards**
 - New standards, revisions, amendments, corrigenda
 - PAR content per requirements of NesCom conventions
- **Reviews PAR actions**
 - PAR modification, PAR extension requests, and withdrawal requests
- **Meets during SASB meeting series and Continuous Processing**

NesCom Members

2024 ROSTER:

- **Lei Wang:** Chair
- **Guido Hiertz:** Vice Chair
- **TBD:** Vice Chair

MEMBERS

- Kit August
- Sara Biyabani
- Xiaofeng (Alfred) Chen
- Yuan Chi
- Stephen Dukes
- Doug Edwards
- Ramy Fathy
- Darren Galpin
- Hao Hu
- Howard Li
- Johnny Lin
- Daleep Mohla
- Jon Rosdahl
- Daidi Zhong

ADMINISTRATOR

- Teresa Belmont

Patent Committee (PatCom)

- Provides oversight for use of patents in IEEE Standards
 - Letter of assurance form
 - Patent slide set
- Provides archive of patent letters of assurance
- May develop updates to patent policy for review by the SASB and BOG
- IEEE Legal Counsel provides legal support to PatCom

PatCom Members

2024 ROSTER:

- **Robby Robson:** Chair

MEMBERS

- Yvette Ho Sang (non-voting)
- Stephen Dukes
- Gary Hoffman
- Joseph Levy
- Kevin Lu
- Don Wright

ADMINISTRATOR

- Dave Ringle

Procedures Committee (ProCom)

- Drafts refinements to procedures and proposes new procedures as necessary and submits its recommendations to the SASB
 - IEEE Standards Association Operations Manual
 - IEEE SA Standards Board Bylaws
 - IEEE SA Standards Board Operations Manual
- Work is in response to:
 - Changing Standards Board requirements
 - Directions from the Board of Governors
- Recommended changes are approved by SASB or BOG as required by the document being changed

ProCom Members

2024 ROSTER:

- **Ted Burse:** Chair

MEMBERS

- Gary Hoffman
- Ron Hotchkiss
- Xiaohui Liu
- Kevin Lu
- Robby Robson
- Lei Wang
- Keith Waters
- Philip Winston
- Don Wright

ADMINISTRATOR

- Dave Ringle

Standards Review Committee (RevCom)

- **Makes recommendations on standards submitted for SASB approval or adoption**
- **Ensures that consensus has been achieved and due process has been followed**
 - Ballot conduct, comment consideration
 - Mandatory coordination, legal review, copyright permissions
- **Does not make formal technical judgments on content of proposed standard**
- **Meets during SASB meeting series and Early Consideration**

RevCom Members

2024 ROSTER:

- **Keith Waters:** Chair

MEMBERS

- Ted Burse
- Nehad El-Sherif
- Travis Griffith
- Ron Hotchkiss
- Yousef Kimiagar
- Thomas Koshy
- Xiaohui Liu
- Haiying (John) Lu
- Hiroshi Mano
- Paul Nikolich
- Annette Reilly
- Sha Wei
- Howard Wolfman

ADMINISTRATOR

- Karen Evangelista

Administrative Committee (AdCom)

- **Comprised of Standards Board Officers (Chair, Past Chair, Vice Chair) and Chairs of each standing committee**
 - Senior IEEE SA staff and legal counsel also attend
- **Reviews SASB agendas and recommends operational plan for the SASB meeting**
- **Meets when needed as a subset of the SASB to discuss important issues affecting the SASB**
- **Meets in Executive Session**

SASB Outreach and Engagement Activities

- IEEE SA conducts outreach and engagement activities to increase awareness of IEEE, IEEE SA, its processes, programs, and paradigms both regionally and globally
- This consists of contact with an external organization or a general audience (non-IEEE SA) that promotes involvement in the IEEE SA
- When the SASB meets away from its headquarters, outreach and engagement activities are usually planned including bilateral meetings, workshops, or other activities, and SASB members and participants are welcome to suggest and participate in outreach activities when possible
- IEEE SA outreach and engagement is coordinated by IEEE SA staff and conducted by IEEE SA volunteers, IEEE SA staff, or a combination of both.
- Please step forward when there is an opportunity to participate

Reference materials

- **Develop Standards:**
<https://standards.ieee.org/develop/index.html>
- **IEEE Standards Association Operations Manual:**
<https://standards.ieee.org/about/policies/sa-opman/index.html>
- **IEEE SA Standards Board Bylaws:**
<https://standards.ieee.org/about/policies/bylaws/index.html>
- **IEEE SA Standards Board Operations Manual:**
<https://standards.ieee.org/about/policies/opman/index.html>
- **IEEE SA Antitrust and Competition Policy:**
<https://standards.ieee.org/wp-content/uploads/2022/02/antitrust.pdf>

QUESTIONS?

Thank You



445 Hoes Lane, Piscataway, NJ 08854 USA



+1 732 981 0060

David Law
Email: david_law@ieee.org
Phone: +44 1631 563729