

# 2019 IEEE Annual Election

Candidate Biographies and Statements

[www.ieee.org/elections](http://www.ieee.org/elections)



# Instructions to IEEE Voting Members

## Please Read Instructions Carefully Before You Vote

Voting members may cast their ballot in one of two ways: Ballot materials may be accessed online and returned electronically (see #1 below) or paper ballots may be mailed (see #2 below). Follow the ballot marking procedures carefully to ensure your ballot will be valid.

**NOTE:** The ballots have been prepared so that candidate information within election categories appears randomly and indicates no preference. It follows an order that was predetermined through a lottery process.

- 1. Electronic Transmission:** Voting materials for the annual election are available online at the IEEE website [www.ieee.org/elections](http://www.ieee.org/elections). To be authenticated electronically, please use your IEEE Account username/password or use the Control Number and E-signature provided or scan the QR code on your paper ballot.
- 2. Paper Returns:** Please sign your ballot. Unsigned (blank) paper ballots do not count as valid votes. Ballots not signed in the signature box on the upper portion of the ballot form do not count as valid votes. The upper portion of the form will be detached after validation and prior to tabulation of the vote by the election vendor.
- 3. Ballot Marking:** Vote for the candidate of your choice in each category indicated on the form by marking an  in the corresponding box to the LEFT of the name. **Any mark made in a box will count as a valid vote. If a mark is NOT made in the box to the left of the name, or if the box is circled without an , it will NOT count as a valid vote. In order to nullify a vote that has been cast in error, the candidate's name AND check-off box should be crossed out completely. If a mark is made in more than one box it will not be counted as a valid vote.**
- 4. Election Categories:** Only voting members of the IEEE may vote for IEEE President-Elect. The categories shown on the ballot reflect the Division(s) and/or Region in which you are eligible to vote this year. Those voting members residing in Regions 1-6 may also vote for IEEE-USA President-Elect, and those IEEE members who also belong to at least one Society may vote for IEEE Technical Activities Vice President-Elect. In 2019, elections are only being conducted in the following Divisions and Regions: Divisions II, IV, VI, VIII and X for Delegate-Elect/Director-Elect and Regions 1, 3, 5, 7 and 9 for Delegate-Elect/Director-Elect. The absence of a category for Division Delegate-Elect/Director-Elect or Region Delegate-Elect/Director-Elect on your ballot indicates that no election is being conducted for these offices in 2019. Elections are also being conducted in all Regions for IEEE Standards Association (IEEE-SA) President-Elect and Board of Governors Member-at-Large.

In 2019, an election is also being conducted in all Regions for IEEE Division I Delegate for the term 2020-2021. Only the voting members of IEEE Division I may elect the IEEE Division I Delegate to the IEEE Assembly.

**NOTE:** The 2020 IEEE President-Elect will become IEEE President in 2021.

- 5. Deadline for Ballot Receipt: Only ballots received by 12 Noon, Eastern Time USA (16:00 UTC) on 1 October 2019 will be counted.** Access and return ballot electronically or mail early to allow for delivery by the deadline date.

## Regional Elections

The world is divided into ten IEEE Regions, each represented on the IEEE Board of Directors by a Region Delegate/Director who serves a two-year term. The Region Delegate-Elect/Director-Elect is elected by the voting members of the Region from a slate nominated by the Regional Committee or by petition of the eligible voting members in the Region. The Region territories described at [www.ieee.org/elections](http://www.ieee.org/elections) are not necessarily confined to State or Country boundaries. When such boundaries are crossed, the State or Country is listed under the Region that contains most of its area. IEEE eligible voting members are entitled to vote for the Region Delegate-Elect/Director-Elect where they reside.

## Technical Division Elections

IEEE Societies are clustered within ten technical Divisions, each represented on the IEEE Board of Directors by a Division Delegate/Director who serves a two-year term. The Division Delegate-Elect/Director-Elect is elected by the voting members of the Division from a slate nominated by the Divisional Committee or by petition of the eligible voting members in the Division. Technical Societies by Division are listed at [www.ieee.org/elections](http://www.ieee.org/elections).

## Standards Association Elections

IEEE Standards Association (IEEE-SA) has the responsibility to pursue programs on an Institute-wide basis that enhances globalization of IEEE standards. Only voting members of the IEEE who are also IEEE Standards Association individual members can vote for the IEEE Standards Association President-Elect. Corporate members are not eligible to vote for IEEE Standards Association President-Elect. All individual members of the IEEE Standards Association are eligible to vote for the IEEE Standards Association Board of Governors Member-at-Large. All corporate members of the IEEE Standards Association, via their respective representatives, are eligible to vote for the IEEE Standards Association Board of Governors Member-at-Large. No member grade is required to vote for IEEE Standards Association Board of Governors Member-at-Large.

## Technical Activities Elections

IEEE Technical Activities Board (TAB) serves the technical interests of the members worldwide. IEEE eligible voting members who are also members of at least one technical Society are entitled to vote for IEEE Technical Activities Vice President-Elect.

## IEEE United States of America Elections

IEEE United States of America (IEEE-USA) serves the professional interests of the members of the United States. IEEE eligible voting members residing in Regions 1-6 are entitled to vote for IEEE-USA President-Elect.

## **IEEE Policy Against Discrimination and Harassment**

IEEE, consistent with the purposes articulated in Article I of the IEEE Constitution, is committed to the realization and maintenance of an environment in which members may have full and productive careers free from Discrimination or Harassment.

IEEE is committed to the principle that all persons shall have equal access to programs, facilities, services, and employment without regard to personal characteristics not related to ability, performance, or qualifications as determined by IEEE policy and/or applicable laws.

IEEE prohibits Discrimination, Harassment and Bullying against any person for any reason, for example, because of age, ancestry, color, disability or handicap, national origin, race, religion, gender, sexual or affectional orientation, gender identity, appearance, matriculation, political affiliation, marital status, veteran status or any other characteristic protected by law. IEEE employees, volunteers, members, and other constituents of the IEEE, when and where ever those individuals are conducting IEEE business or participating in IEEE events or activities, shall maintain an environment free of Discrimination, including Harassment, Bullying, and Retaliation.

### **Mediation and Enforcement:**

IEEE Human Resources Department shall have the primary responsibility for oversight of this policy including investigating complaints of Discrimination, Harassment, Bullying, and Retaliation with respect to employees. Any person who believes that he or she has been the victim of illegal Discrimination or Harassment may seek redress through an appropriate Organizational Unit dispute resolution mechanism or may contact the IEEE Hotline at +1 888 359 6323. The Ethics and Member Conduct Committee shall have final responsibility for oversight of Policy 9.26 and this Policy 9.27 with respect to IEEE members. Matters deemed to be of a serious nature shall be referred to the Legal and Compliance Department for handling.

The goal in every such case shall be to reach a determination on the merits of allegations, if possible. In most cases, this will require an investigation into the facts. Such an investigation may be conducted by IEEE staff, legal counsel, volunteers, private investigators or other individuals deemed qualified to do so. If the evidence shows that there has been Discrimination, Harassment, Bullying, and/or Retaliation, IEEE shall seek to ensure the Discrimination, Harassment, Bullying or Retaliation immediately stops and does not recur. The complainant shall be informed generally of the conclusions reached regarding the allegations. Disciplinary sanctions for violation of policy, up to and including termination of employment or expulsion from membership in IEEE, as applicable, will be imposed in accordance with applicable IEEE policies. The IEEE President shall be informed of all allegations involving IEEE members, volunteers, or any management level employees. If the complaint is against the IEEE President then the IEEE Board of Directors shall be informed.

In accordance with IEEE Policy 9.9, the Whistleblower and Non-Retaliation Policy, IEEE prohibits retaliation for raising in good faith an issue of potential Discrimination, Harassment, Bullying, and/or Retaliation, and discourages any behavior that might be perceived as retaliatory in nature. Retaliation shall constitute a separate violation and may result in a sanction independent of the outcome of a complaint.

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**For the information of IEEE voting members:** Candidates' biographies, accomplishments, activities and statements are published as furnished and attested to by the candidates. The sequence of the candidates in this pamphlet are listed by election category determined by lottery and indicates no preference.

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## For IEEE President-Elect, 2020 IEEE President, 2021



### SUSAN K. "KATHY" LAND

(Nominated by IEEE Board of Directors)

Program Manager  
US Department of Defense  
Huntsville, Alabama, USA  
[www.susankathyland.com](http://www.susankathyland.com)

Ms. Susan K. (Kathy) Land is an acknowledged expert and author in the field of software engineering standardization, software process improvement, and engineering project management. As 2018 Vice President of IEEE Technical Activities, Ms. Land expanded the focus on diversity, entrepreneurship, future directions, young professionals, and standards. Ms. Land demonstrated senior executive leadership experience in a career spanning industry and government systems and software product acquisition and development.

Ms. Land is an IEEE Fellow receiving numerous awards for performance and service, which include the Northrop Grumman/TASC President's Coin, Huntsville Professional of the Year, Huntsville Association of Technical Societies Moquin Award, IEEE Computer Society (CS) Richard E. Merwin Award and the IEEE Standards Association Standards Medallion. She served as the 2009 president of the IEEE CS, three terms on the IEEE Board of Directors, and two terms as a member of the IEEE-USA Board of Directors. More at [www.susankathyland.com](http://www.susankathyland.com).

### IEEE Accomplishments and Activities

(A'01-S'01-A'04-SM'04-F'18)

**IEEE Accomplishments:** Ms. Land served in a wide range of leadership roles. Her efforts supported practical improvements, membership engagement and operational efficiencies to reduce IEEE costs and volunteer workloads while improving IEEE diversity, worldwide reach, and products and services:

- Championed IEEE Technical Activities Board (TAB) and IEEE-Wide **Diversity and Inclusion** initiatives across IEEE (2016-2018).
- Improved **TAB IEEE Young Professionals (YP)** program, developing key engagement strategies and creating new development action plans (2017-2018).
- Supported the creation of the **IEEE Entrepreneurship** committee, critical to continuation and success in this area (2016-2018).

- Improved clarity with **IEEE and TAB Nominations & Appointments**, providing transparency for both TAB and the IEEE nominations & appointments processes (2018-2019).
- Improved **TAB Future Directions** initiatives. Allocated permanent \$150K budget transfer to support transition funding (2018).
- Created **TAB Committee on Standards** to promote standards development within TAB Societies and Councils (2017-2018).
- Proposed **IEEE financial transparency** and simplification, and actively participated in **TAB-wide Financial Transparency Initiative** (2005-present).
- Created an Ad Hoc to support improvements related to **IEEE Contracts** to include decision authority, workflow transparency, risk management, efficiency of execution, and change management (2017).

### IEEE Activities (only select lead positions):

- IEEE Board of Directors, Director Division V (2014-15)
- IEEE Board of Directors, Director Division XIII (2011-2012)
- Vice President Technical Activities (TAB Chair and IEEE Director, Elect-2017, Past-2019)
- Chair, TAB Strategic Planning Committee (2019)
- IEEE-USA Board of Directors (2013, 2016)
- TAB Representative to IEEE WIE (2010-2012)
- TAB Ethics and Conflict Resolution Committee (Chair 2010)
- Region 3 Executive Committee (2016, 2017)
- MGA Region 3 Awards Chair (2016)
- IEEE Computer Society (CS) President (2009)
- IEEE CS Vice President of Conferences and Tutorials (2007, 2008)
- IEEE CS Vice President of Standards Activities, (2004-2006)
- IEEE CS Board of Governors (2005-2008)
- Chair, P1490 Standards Working Group, (2002-2004)

### Statement

One of the great choices that I made over 20+ years ago was to become involved in IEEE. This decision define who I am both personally and technically. I saw how effective each person could be – how you could empower other volunteers and together collectively make positive changes to our profession - I was hooked! This is what I want to share with every individual working in technology.

IEEE is a large and complex organization and individuals are motivated to come to us for our products and services, or to volunteer. My objectives are to make practical improvements that inspire people to call IEEE their technical home. If elected, I commit to:

- Improve the IEEE organization by increasing diversity and awareness of global issues, encouraging communication and engagement across all units of IEEE.
- Promote and empower the next generation of technical experts by supporting STEM engagement, Student Chapters, and our YP and WIE Affinity groups.
- Expand our current portfolio of products and services for industry and entrepreneurs.
- Improve the IEEE business process framework and continue my efforts to clarify financial reporting and promote fiscal responsibility.

I thank you for your support of the IEEE and for helping to make IEEE the technical professional's lifelong network of choice. Let's work together to make IEEE the first place people go to for the highest quality technical information.

"Leadership is not about the next election, it's about the next generation."  
Simeon Sinek

## Video

View the candidate's video message on IEEE.tv at <https://ieeetv.ieee.org/video/land-candidate-message>.



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## For IEEE President-Elect, 2020 IEEE President, 2021



### DEJAN S. MILOJICIC, PhD

(Nominated by IEEE Board of Directors)

Distinguished Technologist  
Hewlett Packard Labs  
Palo Alto, California, USA  
<https://dejan.milojicic.com>

Dejan is a distinguished technologist at Hewlett Packard Labs, Palo Alto, CA (1998-) leading system software teams over 4 continents and projects with budgets of hundreds US\$M. He worked at the OSF Research Institute in Cambridge, MA and at the Mihajlo Pupin Institute in Belgrade, Serbia. Milojevic received his PhD from Kaiserslautern University, Germany; and his MSc/BSc from Belgrade University, Serbia. He was a technical director of the Open Cirrus Cloud Computing Testbed, with academic, industrial and government sites in the US, Europe, and Asia. He has published 2 books and 180 papers; he has 37 granted patents. He is an IEEE Fellow (2010) and ACM Distinguished Engineer (2008). Milojevic was on 8 PhD thesis committees and taught Cloud management course at SJSU. As president of the IEEE Computer Society (2014), he started Technology Predictions, the top viewed CS news. As the industry engagement chair, he started IEEE Infrastructure'18 conference.

### IEEE Accomplishments and Activities

(M'90-SM'99-F'10)

#### Recent Leadership Roles:

- Board of Directors (2017-2018)
- Audit Chair (2018)
- Industry Engagement (Ad-hoc) Chair (2015-2017), elevating it to standing committee in 2018
- Computer Society President (2014)

#### Major IEEE Committees and Boards:

- New Initiatives (2017-2018)
- Audit (2017-2019)
- Industry Engagement (2018-2019)
- Awards (2018)
- Fellows (2016)

As Industry Engagement Chair:

- started a new conference IEEE Infrastructure'18 by industry and for industry
- started Confluence events which resulted in report on AI/ML applied to cybersecurity and preparing Grand Challenge
- surveyed industry requirements by organizing board outreaches to Silicon Valley, China, Japan, Germany, Taiwan (leader), Israel
- created a portfolio of products and services: industry summit, technology trend papers, Xplore I/F testing

As Audit Committee Chair:

- led the committee in monitoring and assessing financial, reputation, IT and other risks for the IEEE
- drove portfolio and line of business financial analyses
- contributed to the cross-organizational improvements for the process of auditing conferences
- on behalf of IEEE Board, oversaw financials of IEEE GlobalSpec by working with IEEE GlobalSpec Board

As IEEE Computer Society President (2014) and Division Director (2017-2018):

- reduced the financial deficit by 37% and identified new revenue sources
- founding editor of *IEEE Computing Now*, a mashup-based society-wide content delivery model
- principal editor of *IEEE CS 2022 Technical Report*, a technical underpinning for 2 CS strategic plans
- the first chair of the IEEE Special Technical Communities, introduced practices and established this new approach which served as a model to IEEE Communities
- instituted the Spirit of Computer Society Award (2014), awarded annually to one volunteer and one staff member who best reflect the spirit of this organization
- initiated and led Technology Predictions (2015-2019), the highest CS news releases (picked up by 294 media outlets, 84.6M audience for 2018), second on both Google and Bing search
- organized the IEEE Computing Society Fellows event and mailing list, increasing Fellows awareness

## Statement

IEEE is at inflection points of the changing engineering profession, global society, and membership models. IEEE has a great opportunity to influence technology and benefit humanity. My three main goals are to:

- Increase IEEE's relevance to existing and new **industry** members, and connect them better with members from academia and government. Inform members of short-, and long-term trends affecting their profession. Help members make informed career decisions and increase their professional recognition. Broaden IEEE corporate partnership with startups. Strengthen industry events.
- Create **innovative** IEEE products and services. Modernize events to be of higher practical value, e.g. introduce meetup model. Offer high end services to enterprises, governments, and non-government organizations, e.g. cyber Grand Challenge. Create light-weight, right-timed standards, e.g. interoperable AI.
- Reinvigorate **global** membership models, from traditional pay-based (400K), to engagement (~4M authors, readers, attendees) and broader reach (18.2M software developers). Reverse growing dues trend, subsidize \$10 membership fee reduction annually. Grow IEEE-USA into IEEE Global Policy and introduce IEEE-Europe and IEEE-Asia. Expand into growing regions, such as Asia, Africa, and South America while revitalizing Americas/Europe membership. Focus on globalization while honoring localization.

As an innovator from industry with strong ties to academia and government and with a global background, I have a proven track record as a **catalyst of change** and of **getting things done** in a timely manner. The changes I have introduced were inclusive in execution and embraced by those impacted. I believe that I am well suited to lead these changes as the president of IEEE.

## Video

View the candidate's video message on IEEE.tv at <https://ieeetv.ieee.org/video/milojicic-candidate-message>.

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For IEEE Division Delegate-Elect/Director-Elect, 2020  
IEEE Division Delegate/Director, 2021-2022  
Division II (CPMTS, DEIS, IAS, IMS, PELS, UFFCS)



**NAZANIN BASSIRI-GHARB**

(Nominated by IEEE Division II)

Harris Saunders, Jr. Chair Professor  
George W. Woodruff School of Mechanical Engineering  
and School of Materials Science and Engineering  
Georgia Institute of Technology  
Atlanta, Georgia, USA  
<http://smartlab.gatech.edu>

Nazanin Bassiri-Gharb is the Harris Saunders, Jr. Chair Professor at the Georgia Institute of Technology. She received her BSMS *summa cum laude* from University of Padua, Italy in 2001 in Materials Engineering, and her PhD from Penn State University, USA in 2005. Following her doctoral work, she was a senior research R&D engineer at QUALCOMM MEMS Research and Innovation Center in Silicon Valley, prior to joining Georgia Tech in 2007. In 2014 she held a joint-faculty appointment at the Oak Ridge National Laboratory with the Center for Nanophase Materials Sciences. At Georgia Tech, she is an affiliate with the Center for the Science and Technology of Advanced Materials and Interfaces, and serves on the Advisory Board of the Materials Characterization Facility. Prof. Bassiri-Gharb's research interests are in functional materials and most prominently ferroelectric, piezoelectric and electro-chemo-mechanically active materials for applications to sensors, actuators and transducers.

**IEEE Accomplishments and Activities**  
(S'05-M'05-SM'11-SM'13)

- IEEE Ultrasonics, Ferroelectrics and Frequency Control (UFFCS): President-Elect 2016-2017; President 2018-2019
- Joint IEEE International Symposium on the Applications of Ferroelectrics, International Workshop on Acoustic Transduction Materials and Devices & Workshop on Piezoresponse Force Microscopy (ISAF/IWATMD/PFM), Atlanta, GA, General Chair, 2017
- Newsletter of IEEE UFFCS: Associate Editor 2007-2011; Editor-in-Chief 2012-2013
- IEEE UFFCS Best Student Paper Award, 2004
- IEEE UFFCS Ferroelectrics Young Investigator Award, 2013
- IEEE UFFC, Educational Committee officer, 2006-2010
- IEEE International Symposium on Applications of Ferroelectrics, Organizing Committee, 2006, 2009, 2014, 2015, 2017
- IEEE UFFCS Ferroelectrics Standing Committee, 2007-present; Group IV, Applications Chair: 2013-2017
- IEEE Nanotechnology Council Administrative Committee, UFFC-S Liaison, 2008-2014
- IEEE Women in Engineering, UFFC-S liaison, 2008-2013

- IEEE UFFC, elected Administrative Committee Member, 2010-2012
- *IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control*, Associate Editor, 2011-present
- IEEE Energy Conversion Congress and Expo-North America, Women in Engineering Breakfast Speaker, 2017
- IEEE Technical Activities Board (TAB) Member, 2018-present
- IEEE TAB AdHoc Financial Transparency (FinTrans) Committee, AdHoc Subcommittees on Publication Costs and S/C Conference Cost and Revenue Calculations/Reports, Member, 2017-2018
- IEEE Technical Activities Board (TAB) AdHoc Diversity and Inclusion Committee: Member 2019-present; AdHoc Subcommittee on Harassment, Chair, 2018-present

## Accomplishments

- Created the UFFCS Summer Schools, topical instructional laboratory and lectures held in diverse geographical locations, and with travel support for UFFCS student members.
- Implemented Society-wide video recording of tutorial, invited and plenary talks at all IEEE UFFCS Symposia (videos available on the UFFCS YouTube channel for the general public: <https://ieee-uffc.org/ieee-uffc-s-youtube-channel/>).
- Created UFFCS Star Ambassadors program to support the regional travel of Young Professionals to create technical connections and raise awareness of IEEE and UFFCS activities.
- Created a more diverse IEEE UFFCS governing body through increased appointment of women, racial minorities, Regions 8-10, and Young Professionals.
- Led, at IEEE TAB level, a committee to create new guidelines to reduce e-bullying and harassment.

## Statement

I have worked in industry and academia, lived on three continents, and for most of my volunteer activities I have been one of the youngest in the room. I have been an IEEE member since college, in spite of an atypical career path and diverse experiences. Like myself and my home Society, more and more IEEE members join us from outside the historical IEEE demographics. I shall focus on creating strategies to encourage and foster more diversity in IEEE – be that gender, geographical area, career stage, field-of-interest, or professional affiliation. I shall promote discussions on issues of ethical conduct with respect to publishing, conferences, research, and cultural awareness.

Our Division is very strong technically. I aim to increase cross-pollination of technical content and joint-society symposia. Additionally, I shall pursue lean approaches to reduce the burden of bureaucracy and related overhead within IEEE at large. My ultimate goal is increased affordability of IEEE publications and conferences (particularly within the Open Access-created landscape).

Together we shall strive to build a community that benefits humanity.

**For IEEE Division Delegate-Elect/Director-Elect, 2020  
IEEE Division Delegate/Director, 2021-2022  
Division II (CPMTS, DEIS, IAS, IMS, PELS, UFFCS)**



**RUTH A. DYER**

(Nominated by IEEE Division II)

Senior Vice Provost for Academic Affairs Emeritus  
Professor Emeritus, Electrical and Computer Engineering  
Department  
Kansas State University  
Manhattan, Kansas, USA  
<https://www.ece.k-state.edu/people/faculty/rdyer/index.html>

Ruth Dyer acquired 20 years' experience as a senior-level university administrator and in other leadership positions before retiring recently with 35 years' service at Kansas State University (KSU). She holds bachelor's and master's degrees in biochemistry from KSU and the Ph.D. in mechanical engineering from the University of Kentucky (UK). She is a Life Fellow of the IEEE, a Fellow of the Association of Women in Science, a 2003-04 American Council on Education Fellow, a member of the UK College of Engineering Hall of Distinction, and she serves on the UK College of Engineering Dean's Advisory Council.

Her awards in teaching, research and advising include the Outstanding KSU Instructors and Advisors Award (1997), the KSU College of Engineering's James L. Hollis Award for Excellence in Undergraduate Teaching (1996) and its Paslay Award for Outstanding Teaching and Research (1994), and KSU's Eta Kappa Nu Distinguished EECE Faculty Member Award (1986, 1994).

**IEEE Accomplishments and Activities**

(M'86-SM'95-F'08-LF'19)

**IEEE**

- Chair, IEEE CRFID Advisory Committee, 2018-present
- IEEE TAB AdHoc Committee on Contracts, 2018
- IEEE TAB AdHoc Committee on Design for Ethics, 2018
- IEEE TAB, 2016-17
- IEEE TAB AdHoc Committee on Financial Transparency, 2016-17
- IEEE Joseph F. Keithley Award in Instrumentation & Measurement Committee, 2010-13

**Instrumentation and Measurement Society (IMS)**

**Leadership**

- Junior Past President, 2018-19
- President, 2016-17
- Executive Vice President, 2014-15
- Vice President:
  - Finance, 2011-13
  - Publications, 2010
  - Membership, 2006-07
- Chair:
  - Nominations and Appointments Committee, 2018-19
  - Society Management Committee, 2014-15
  - Fellows Coordination Committee, 2014-15



- J. Barry Oakes Memorial Fund AdHoc Committee, 2011-13
- Chapter and Student Activities Committee, 1999-2006

### **Conferences**

- Technical Program Co-Chair, 2011 IEEE International I&M Technology Conference (I<sup>2</sup>MTC)
- General Conference Co-Chair, 2010 IEEE I<sup>2</sup>MTC
- Member, Board of Directors, I<sup>2</sup>MTC, 1999-2011

### **Publications**

- Guest Editor, *IEEE I&M Magazine*, June 2018
- Co-Guest Editor, Special Issue on I<sup>2</sup>MTC of *IEEE Transactions on Instrumentation and Measurement*, May 2012
- Editorial Board, *IEEE I&M Magazine*, 2010-13; 2016-17

### **Elected Membership and Awards**

- Recipient, IMS Distinguished Service Award, 2011
- Elected Member-At-Large, IMS AdCom, 1999-2006; 2008-11

### **ACCOMPLISHMENTS**

- Collaborated with Division II society presidents to share concerns about timely contract approval with TAB VP. The 2018 IEEE TAB AdHoc Committee on Contracts developed recommendations to revise contract-approval process.
- Developed budgeting process involving expense monitoring and annual metrics-based evaluation to ensure alignment of expenses with IMS strategic plan.
- Created budget tutorial so IMS AdCom members understand our current and historical revenue and expenditures and the IEEE budgeting process/timelines. Copy was requested by IEEE.
- Coordinated I&M Publications and Society Reviews in 2017, with several best practices recognized by IEEE.
- Led creation of IMS Africa Initiative for membership development.
- Established Regional Liaisons to enhance outreach for society activities.
- Helped establish IMS student-travel and best-paper awards.

### **Statement**

IEEE is a valuable global technical community that relies on its members' creative contributions to "advance technology for humanity." IEEE activities/initiatives must grow membership and foster its members' professional advancement and careers, and its policies/procedures must effectively facilitate its Societies'/Councils' work.

To enhance IEEE's value, I will:

- Be responsive to issues members and societies are facing and ensure all voices within IEEE are considered where improvements to IEEE can be effected.
- Advocate and develop strategic responses to challenges such as changes impacting global-publication business models, including OA and Plan-S; revenue-sharing within IEEE; and financial stability of smaller Societies/Councils. Ensure transparency to achieve effective results.
- Capitalize on the richness of diversity among IEEE members by ensuring all under-represented groups actively participate and have a voice.

I have experience from interdisciplinary research and leadership positions in academe, IEEE and other organizations in listening to concerns, gathering necessary data for decision-making, asking hard questions, expecting accountability and transparency, fostering collaboration, cultivating inclusive environments, and achieving consensus. These skills will allow me to serve effectively as Division II Director.

For IEEE Division Delegate-Elect/Director-Elect, 2020  
IEEE Division Delegate/Director, 2021-2022  
Division IV (APS, BTS, CES, ECS, MAGS, MTTs, NPPS)



**MANFRED "FRED" J. SCHINDLER**

(Nominated by IEEE Division IV)

Consultant  
Newtonville, Massachusetts, USA  
[fredschindler.com](http://fredschindler.com)

Fred Schindler has spent his career in industry working on RF, microwave and mm-wave semiconductors, leading the development of advanced RF semiconductor technology and products for commercial and defense applications. He is currently an independent consultant and is Chief Technology Officer of Anlotek Ltd., an RF technology company. Previously he worked as Engineering Director at Qorvo and RFMD, where he founded its Boston Design Center. He also worked as Engineering Manager at IBM, ATN-Microwave and Raytheon. Fred earned a BSEE from Columbia University in 1979 and an MSEE from UMass-Amherst in 1983. He holds 11 patents and has published over 40 technical articles. He has been active in the IEEE, MTT-S, TAB, PSPB and IEEE Conferences since 1990, including service as MTT President, Chair of the IEEE Conferences Committee and Chair of the International Microwave Conference. He has contributed a column on Microwave Business to *IEEE Microwave Magazine* since 2011.

**IEEE Accomplishments and Activities**

(S'78-M'79-S'80-M'82-SM'92)

**Conferences**

- IEEE Conferences Committee Chair (2015-2018), Member (2013-2014, 2019). As Chair, my emphasis was improving engagement with and between conference volunteers, and revising the organization to increase volunteer involvement. Also Chair: Nominations, Appointments and Recommendations (2019), Conference Quality (2017), Conference Applications Review (2018-2019), Conference Portfolio Review (2017-2019), Conference Organization Integrity ad hoc (2019), Event Innovations (2019). Member: Technical Program Integrity (2014-2019).
- International Microwave Symposium, General Chair (2009). Also Chair: Executive Committee (2011, 2014-2015), Exhibition Management Search (2007-2008), PCO Search (2010-2011), Technical Program (2000), Protocol (2012), TP Member (1995-2003, 2012-2014, 2016-2020), Advisor (2012-2016, 2019).
- Radio and Wireless Symposium, Founding Chair (2006), Executive Committee Chair, (2005-2007, 2010-2015), PAWR TP Chair (2014-2016)
- GaAs IC Symposium TPC (1989-1992)
- Conference Financial Management BoD ad hoc, (2017-2019)

**TAB**

- Focused on better engagement with Society/Council conference

leadership and increased information sharing.

- Member (2003, 2015-2018). Also Member: FinCom (2015-2018), Financial Health (Watch List) ad hoc (2018-2019), Sections Congress ad hoc (2017), Hall of Honor Committee (2018-2019), Strategic Planning Committee (2019), Contract Approval Process ad hoc (2018)

### **Publications**

- Drove to increase collaboration by Conferences and Publications leadership.
- PSPB Member (2015-2018)
- *IEEE Transactions on Microwave Theory and Techniques*, Editorial Board (1994-2000)
- *IEEE Microwave and Wireless Component Letters*, Editorial Board (2000-2008)
- *IEEE Microwave Magazine*, Business Issues Editor (2010-2019)

### **Cross Organization**

- Marketing Automation MGA/TAB ad hoc, Co-Chair (2015)
- Future of Information and Convening BoD ad hoc (2015)
- TAB/PSPB Strategic ad hoc, Group Co-Chair (2019)
- IEEE Roadmap Strategy and Governance ad hoc (2019)

### **Society/Council**

- MTT-S – As President (2003) during financial stress, I led through a turnaround. VP 2002, Secretary 1993, AdCom Elected Member, 1994-2002, Chair: Membership Services, (2000-2001), Meetings and Symposia, (1996-1997), Operations (1999), Budget (2002), Long Range Planning (2005), MTT-19 TC (2010-2015), Electronic Information (1994-1996), Marketing-Publicity (1995-1998), MMIC Historical Exhibit (1993-1998)
- CRFID Advisory Committee Member (2018-2019)

## **Statement**

IEEE faces significant present and future challenges. Ongoing issues with high overhead and administrative costs will be exacerbated by pressures on IEEE's publishing income driven by the Open Access movement. The IEEE Board will need to be cautious with initiatives and willing to make significant structural changes to position IEEE for future stability and success. TAB will continue to drive IEEE's technical leadership and be the largest source of income. IEEE's structure must encourage innovation and reward success.

The communities that IEEE fosters have always been its greatest assets. They need to be sustained, encouraged, grown. Administrative burdens and bureaucratic barriers need to be eased to allow communities to prosper and encourage volunteers to contribute. IEEE can't afford to discourage its volunteers. We need to overcome structural barriers between established communities, and that inhibit new communities. As IEEE evolves, it's the contributions and commitment of volunteers that will ensure success.

As a society leader and IEEE Conferences Chair, I believe I have the insights, dedication and experience to help IEEE prosper, and overcome our impending challenges.

For IEEE Division Delegate-Elect/Director-Elect, 2020  
IEEE Division Delegate/Director, 2021-2022  
Division IV (APS, BTS, CES, ECS, MAGS, MTTs, NPPS)



**CHARLES M. RHOADS, PHD, PE**

(Nominated by IEEE Division IV)

Principal Fellow / RF Technology Area Director  
Raytheon Company / Space and Airborne Systems  
McKinney, Texas, USA

BSEE 1976, MSEE 1978, PhD 1983 – The Ohio State University.

Dr. Rhoads joined Raytheon/SAS in 1983. He is a Principal Fellow, and the RF Technology Area Director. He has responsibility for RF technology strategy and IRAD execution in the areas of Radar, EW, and (some) communications systems. Previously he was with the Advanced Products Center, responsible for technology developments in antennas, phased arrays, radomes and aircraft integrated forebodies for broadband radars, DF sensors, and communications applications.

Dr. Rhoads' graduate work at the OSU ElectroScience Laboratory involved design, construction, and measurement of IR FSSs. He is an OSU/CoE Distinguished Alumnus and previously chaired the ECE Industrial Advisory Board. He is a member of the USAF Scientific Advisory Board, a member of Eta Kappa Nu, and a Registered PE. He has a number of publications and patents in the areas of resonance-based target ID techniques, IR FSSs, low-cost arrays, and RF MEMS.

**IEEE Accomplishments and Activities**

(S'77-M'83-SM'89-F'17)

Dr. Rhoads is an IEEE Fellow. He became a student member in 1977 with primary interests in the Antennas and Propagation Society (APS) and the Microwave Theory and Techniques Society (MTTS). At various times in his career, he has been a member of other technical societies. He began his service to IEEE in 1986 as Co-Chair of the Dallas Chapter of APS. He became the Chapter Chair in 1987. During his tenure as chair, the Dallas Chapter won the APS "Best Chapter" award. During and following his term as APS Chapter Chair, Dr. Rhoads helped with planning and arrangements for the APS International Symposium held in 1990 in Dallas, TX. The symposium was unique in that it was held jointly with the MTTs Society International Symposium. Dr. Rhoads was the lead for the APS Symposium Registration Committee and helped negotiate the registration agreements which impacted the negotiated event revenue sharing distribution. Working this collaborative

event was challenging, but it was also a significant success.

Dr. Rhoads was elected to the APS Administrative Committee (AdCom) and served a three year term (2000-2002). He was then elected APS Society President-Elect in 2006, and then served as President in 2007. Dr. Rhoads then served on the AdCom as Past-President with vote from 2008-2011. He continued to serve AP-S as a member of the Past-Presidents' Council, the Industrial Relations Committee, and as reviewer for the Student Paper contest.

## Statement

Participating in IEEE activities, especially at the society level, has been significant to my career and professional development. As Division IV Director, I want to help ensure that IEEE and our societies continue to best serve our members going forward by providing opportunities for technical collaboration and professional growth. An area where improvements can lead to significant benefits is in additional collaborative activities between the societies and councils. The 1990 joint symposium between APS and MTTs, and additional organizations (e.g. URSI), is an example. Such collaborations are required in the business community and can lead to increased opportunities. Helping these effective collaborative activities move from concept into action and developing the relationships for them to succeed requires a high degree of organizational transparency and trust. Since I have worked on several collaborative developments, I can facilitate these activities across all seven societies and the two councils in Division IV. Also, emphasizing transparency and trust across IEEE will help improve operations and will ultimately be in the best interests of all IEEE members and technical organizations.

For IEEE Division Delegate-Elect/Director-Elect, 2020  
IEEE Division Delegate/Director, 2021-2022  
Division VI (ES, IES, PCS, PSES, RLS, SSIT, TEMS)



**MICHAEL W. CONDRY**

(Nominated by IEEE Division VI)

Chair of the Advisory Board of Directors  
ClinicAI, Inc.  
San Jose, California, USA  
[www.clinicAI.com](http://www.clinicAI.com)

Michael chairs the advisory board for ClinicAI, Inc. a startup developing cancer detection technology. At Intel, Michael was the Chief Technical Officer of the Client Division, leading customer innovation, design cost reduction, security, and technical staff development. His efforts at Intel awarded him the prestigious Intel Quality Award in 2015. His career included academic and industry positions, mostly in industry. He held teaching and research positions at Princeton and University of Illinois, Urbana-Champaign. At Illinois, he was a member of Al Gore's internet advisory board. A director at Sun Microsystems he championed standards, on UNIX and Internet. At AT&T he was one of the architects for the BellMac 32 processor and also led software projects including a Real-Time Unix design and Unix System V file system. He has multiple patents, publishes technical papers and frequently presents keynotes. Michael is a member of the Industry Advisory Board for Tsinghua University.

**IEEE Accomplishments and Activities**

(M'94-SM'04-F'19)

**SOCIETY/COUNCIL/TAB:** Technology and Engineering Management Society (TEMS) President, Industrial Electronics Society (IES) Senior AdCom, Computer Society Member. Created IES Industry Forum series that has successfully engaged industry in over 20 conferences. Started the program in IES and expanded it in TEMS conferences. In IES it increased industry engagement from about 2% to 15% at conferences. Industry Forum program for IES and TEMS has brought industry into IEEE events and stimulated networking between industry and academic research. Chaired the 2018 TAB AdHoc on Best Practices, active in initiatives IoT and Future Networking. Led the development of TEMS, with stronger leadership, new conferences having values for industry and research, greatly modernized publications and membership growth.

**CONFERENCES:** Chaired IECON 1999, ITMC 2011, DEST 2013, ISIE 2015, Industry Summit 2015, TEMSCON 2017, TEMS-ISIE 2018, started Industry Forum Series for IES and TEMS. Industry Forum is now part of every TEMS conference, typically in 2-3 IES events each year. Annually, Michael gives

multiple keynotes worldwide. In 2018, TEMS-ISIE (Beijing), India Industry Forum (Bangalore), IECON (Washington, DC) and multiple external events where IEEE programs were addressed.

**PUBLICATIONS:** *IES Magazine* Associate Editor. Several publications including "Open Service Gateway Architecture" in IECON 1999 proceedings that led to fog computing model today, and "Using Smart Edge Internet of Things (IoT) Devices for Safer, Rapid Response with Industry IoT Control Operations" in *Proceedings of the IEEE* on IoT Security. Regular "Letters from the President" in *TEMS LEADER* magazine and frequent Industry articles in IEM.

**STANDARDS:** Rejuvenated standards engagement within IES as IES Standards Chair 2008-2012. Started the first standards session at ICIT that led to the first IES standard. IES standards activity has been productive since then.

**CHAPTERS/SECTION/REGIONS:** Silicon Valley Section Vice-Chair 2015, Presenter Sessions Conference 2017. Active in TEMS and Computer chapters for years.

### Statement

I have been engaged in Division VI for an extended period leading and forming the new TEMS Society to bridge between technology and business; engaging in IES to create and establish the Industry Forum program and the new Under 35 Initiative. I have given many keynotes, run conferences and started conference series, provided publications, etc. I have always been focused in bringing the value of the IEEE to industry.

I feel Division VI has some business challenges, which we can address together. First, I wish to make sure Division VI is represented in TAB committees so they add value to the Division VI societies. If elected, I will start organizing a Division VI conference, one that focuses on the value of IEEE to industry. Division VI has many of the skills and provides much research that industry needs, by approaching the problem in a unified way we can attract industry as well as research and provide a facility for cooperating and exchange of value.

I would be grateful for opportunity to achieve these goals.

For IEEE Division Delegate-Elect/Director-Elect, 2020  
IEEE Division Delegate/Director, 2021-2022  
Division VI (ES, IES, PCS, PSES, RLS, SSIT, TEMS)



**PAUL M. CUNNINGHAM**

(Nominated by IEEE Division VI)

Director, IST-Africa Institute  
President & CEO, IIMC  
Dublin, Ireland

[http://www.IST-Africa.org/home/files/PMCunningham\\_IEEE.pdf](http://www.IST-Africa.org/home/files/PMCunningham_IEEE.pdf)

Prof. Paul M Cunningham is Director, IST-Africa Institute, a not-for-profit strategic collaboration with African ministries responsible for Innovation, Science and Technology.

Founded in 2002, IST-Africa focuses on strengthening ministry policy and strategy capacity, and helped African universities secure over €200 million in research funding over the last ten years. Supported by European Commission and African Union Commission, IST-Africa is a member of UN Sustainable Development Solutions Network and recognized by ITU as a WSIS 2018 Prizes Champion.

As President & CEO, IIMC, Paul leads teams providing technological, strategic, and policy expertise to government organizations and research programs.

Affiliated with IUM (Namibia), and Wrexham Glyndwr University (Wales), Coordinator of mHealth4Afrika, Paul has an interdisciplinary background (Trinity College Dublin; Kodály Institute of the Liszt Ferenc Academy of Music; UCD Michael Smurfit Graduate Business School; DSV, Stockholm University) and was recognized by Enterprise Ireland as an Irish Champion of EU Research (2015, 2017).

## IEEE Accomplishments and Activities

(M'94-SM'14)

### SOCIETY/COUNCIL/TAB:

- Society on Social Implications of Technology (VP-Conferences 2016, President 2017-2018, Past-President and VP-Conferences 2019)
- Technical Activities Board (2017-2018)
- Member: Biometrics Council; Communications Society; Computer Society; Council on RFID; Engineering in Medicine and Biology Society; Nanotechnology Council; Power & Energy Society; Sensors Council

### CONFERENCES:

- *IEEE International Symposium on Technology and Society* (Chair 2015 R8, 2017 R10, 2018 R2, 2019 R1)
- *IEEE International Global Humanitarian Technology Conference* (R6, Steering Committee 2015-Present, Technical Program Chair 2017, Program Chair 2018, Conference Chair 2019)
- *IEEE Africon* (R8, 2015 Co-Chair, Organizing Committee; 2017 Co-Chair, Humanitarian Activities; 2019, TPC Key Member - Engineering and Technology for Development)
- *IEEE AI & Ethics Summit* (R8, 2016 Program Committee)



## **PUBLICATIONS:**

- Associate Editor
  - *IEEE Technology and Society Magazine* (2015)
  - *IEEE Access* (2018-Present)

## **COMMITTEES/BOARDS:**

- Humanitarian Activities (Projects Chair 2016-2017, HAC Chair 2018, Past HAC Chair 2019)
- Global Public Policy (2017-2018)
- 2017 TAB Ad-hoc on DIG ONCE (Vice-Chair)
- 2017 TAB Ad-Hoc on North and South Poles (Vice-Chair)

## **CHAPTER/SECTION/REGION:**

- IEEE UK and Ireland SSIT Chapter (Chair, 2013-Present)
- IEEE R8 Humanitarian Activities Committee (Advisor 2019)

## **Other IEEE Activities:**

- Founder/Chair, IEEE SSIT IST-Africa SIGHT (R8, 2015-Present)
- Member, SSIT Standards Committee (2018-Present)
- SSIT Distinguished Lecturer (R8, 2015-Present)
- VoLT Program (Graduate 2016, Mentor 2018)
- Industry Ambassador for Ireland (2016-2017)

As SSIT President, I enjoyed working with TAB colleagues to strengthen collaboration and visibility and impact of SSIT and Division VI. During my term, SSIT secured approval as a Standards Sponsor, established a Standards Committee (P7000 Series), and secured approval of *IEEE Transactions on Technology and Society*.

During my term as HAC Chair, IEEE applied for Consultative Status with UN ECOSOC, carried out a comprehensive Sustainable Development Landscape Analysis and established processes and partnerships to further strengthen capacity and impact of IEEE volunteers and dramatically increase IEEE's international visibility and influence in the Sustainable Development space.

## **Statement**

IEEE has enormous capacity to achieve wide social impact through its global reach, technical breadth and contributions to Global Standards, Public Policy, Sustainable Development, Continuing Education and Certification, and Ethics in Technology.

Division VI Societies have a key role to play through our expertise addressing critical engineering, scientific and technology related "soft-skills" gaps. While as Division VI Director, I will continue to support collaboration and capacity building across TAB, an equally important opportunity is building a strategic partnership with MGA to demonstrate our value proposition to the many IEEE members who are not Society members. Contributing to capacity building through Regional Meetings and Conferences will showcase our talents and provide opportunities to grow membership and revenues.

As Division VI Director, I will be consultative, focusing on ensuring the perspectives, concerns, expertise and insight of Division VI Societies inform and influence strategic discussions, particularly related to Public Policy, Sustainable Development, Continuing Education, Ethics in Technology and Standards. While acting in the best interests of IEEE, I will champion Division VI priorities and concerns in IEEE Assemblies.

For IEEE Division Delegate-Elect/Director-Elect, 2020  
IEEE Division Delegate/Director, 2021-2022  
Division VIII (Computer)



**CHRISTINA M. SCHOBER**

(Nominated by IEEE Division VIII)

Product Lead & Staff Engineer - Sensor Products  
Honeywell Aerospace Division  
Minneapolis, Minnesota, USA  
[www.christinaschober.com](http://www.christinaschober.com)

Christina Schober is a practicing Engineer with 38 years' experience. As Product Lead for Tactical Ring Laser Gyro Aerospace Division of Honeywell she supports multiple ring laser gyro products and MEMS gyro development. She supported 3 phases of the DARPA Atomic clock program, receiving 7 patents from her work. As Lead Process Engineer she was responsible for the successful transitions from design to production for both the Integrated Flight Management Unit and the Stinger Roll Frequency Sensor. At Honeywell's Solid-State Electronics Division, she worked in MOS VLSI Design, as Project Lead for CMOS standard cell library development; and a CAD trainer for circuit simulation, logic and circuit design.

Notable highlights include: 16 US patents, 24 foreign patents, Professional Masters and Bachelor of Mechanical Engineering (University of Minnesota), and Honeywell 2015 Outstanding Engineer / 2005 Aerospace Quest for Excellence team award / Certified Honeywell Six Sigma Blackbelt.

**IEEE Accomplishments and Activities**  
(M'85-SM'92)

My IEEE experience as a leader within Technical Activities demonstrates a consistent record of leadership, integrity, ethics, collaboration, diversity and inclusion. To be an effective Division Director for the IEEE CS, it is very important to have a thorough and working knowledge of the CS as an organization. I have been a dedicated CS volunteer for over 30 years working as a volunteer at all levels of the CS. I have served six terms as a member of the CS BOG, including VP Conference & Tutorials and VP Chapter Activities. As a Division Director it is equally as important to have a working knowledge of IEEE Technical Activities (TA), its structure and associated Societies and Councils. I gained this knowledge having served as Sensors Council President (2010-2011) and on the Technical Activities Board (TAB). Additionally, I have served in TAB Strategic Planning, Society and Council Review Committee (SCRC), and Chair of the TAB Conflict Resolution Committee. Currently TAB Ombudsman, on TAB SCRC and IEEE Strategy and Alignment Committee.

During 2009 I was a member of the CS BOG during the original SP06 Strategic Planning which established the basis for the current CS strategic and financial planning today. I am familiar with the current budget challenges faced by the IEEE CS and it is my desire to work within TAB and the IEEE Board to help the IEEE CS continue with their financial recovery. It is imperative that the IEEE CS employ experienced volunteers, volunteers who understand the IEEE policies and network during this critical time of recovery to help ensure that items of importance are socialized and expedited when required.

All of these senior leadership positions have enriched my knowledge, understanding and network of contacts to best position me to further the IEEE (CS) mission and service to its members.

## Statement

I will be a dedicated Computer Society Division Director. I have the enthusiasm required to bring out new services and products, possess a futuristic outlook for long-term planning, while promising to continue CS products at their premier quality level.

I have great respect for all aspects of computing, and its worldwide penetration into industry, schools and homes. The diversity of our members and the wide breadth of computing technology are a challenge to providing value to each member. I want to use the Division Director position to improve each member's return on their investment.

IEEE Computer Society provides excellent benefits and services to members and the professional community. These include professional development, publications, conferences, standards, awards, member elevations, and networking. I want to help the Computer Society adapt to an ever-changing world. To stay relevant, we must lead and keep our members informed of the latest innovations, methodologies and technologies. I will work to ensure that the CS stays a technology leader, provides value to our members, and is an exemplary society within the IEEE.

For IEEE Division Delegate-Elect/Director-Elect, 2020  
IEEE Division Delegate/Director, 2021-2022  
Division VIII (Computer)



**HAUSI A. MÜLLER**

(Nominated by IEEE Division VIII)

Professor of Computer Science  
University of Victoria  
Victoria, British Columbia, Canada  
<https://tinyurl.com/Muller-IEEE-D8>

Hausi Müller is Professor of Computer Science at University of Victoria, Canada. For the past decade, he served as Associate Dean Research for the Faculty of Engineering. With his research group, he collaborates extensively with industry as an international expert in software engineering, adaptive systems, intelligent cyber physical systems, and quantum computing. He published over 250 papers and co-organized many conferences and workshops in these research fields, including Dagstuhl and Shonan Meetings in Germany and Japan on *Software Engineering for Self-Adaptive Systems* (2010), *Engineering Autonomic Systems* (2013) and *Software Engineering for Cyber Physical Systems* (2017). He was the founding Director of UVic's accredited Bachelor of Software Engineering degree program. Müller is a Fellow of the Canadian Academy of Engineering. Müller received a BS in electrical engineering from ETH Zürich and MS and PhD degrees in computer science from Rice University. He sings, plays guitar, and enjoys hiking and skiing.

**IEEE Accomplishments and Activities**

(A'80-M'82-SM'13)

- Member, IEEE Computer Society (CS), Communications Society, Control Systems Society, Vehicular Technology Society, Technology and Engineering Management Society
- Co-Chair, IEEE Future Directions Quantum Initiative, 2019
- Member, IEEE Conferences Committee and Conference Publications Committee, 2019
- Member, IEEE CS Board of Governors, 2015-2017
- Vice-President, IEEE CS Technical & Conference Activities (T&C) Board, 2016-2018
- Member, IEEE CS Technical and Conference Activities Board (T&C), 2012-2019
- Co-Chair, IEEE CS Conference Advisory Committee (CAC), 2014-2015
- Member, IEEE CS Technical Activities Committee (TAC), 2011-2018
- Chair, IEEE CS Technical Council of Software Engineering (TCSE), 2011-2015

- Editorial Board, *IEEE Transactions on Software Engineering (TSE)*, 2005-2009, 1994-2000
- Edited over 25 IEEE conference proceedings

### Key Accomplishments:

- **BoG, ExCom:** I served on CS Board of Governors (2015-2017) and CS Executive Committee (2015-2018) and ran twice for CS President (2016-2017), thereby gaining deep insights into society governance — decision-making, financial sustainability, and grooming next generation of leaders.
- **T&C Board:** I served for three years as Vice President of CS T&C Board (2016-2018) looking after 250+ conferences and 31 technical committees. Key T&C goals: expand the portfolio of technical committees and conferences; increase conference revenues; develop and implement an EDI (equity, diversity and inclusion) strategy and statement for CS conferences.
- **TCSE:** As Chair of IEEE TCSE, I lead this council to expand its conference portfolio from approximately 20 to over 30 conferences and created highly regarded TCSE awards: *IEEE CS TCSE Software Engineering Distinguished Women in Science and Engineering (WISE) Leadership Award*, and *IEEE CS TCSE Distinguished Synergy Award*.
- **Conference organization:** I co-organized many IEEE conferences — *IEEE Quantum 2019*, *IEEE WF-IoT 2015 & 2018*, *IEEE ICSM 2014*, and *ACM/IEEE ICSE 2001* and co-founded *ACM/IEEE SEAMS* conference series (2006-2019).
- **Awards:** IEEE CS Golden Core Member Award; IEEE TCSE Distinguished Service Award.

### Statement

IEEE is uniquely positioned as a global leader in science, technology, and innovation. IEEE must continue to earn the trust of professionals and provide extensive opportunities for professional networking, career development, and life-long learning.

With its societies, committees and chapters, IEEE is an outstanding home for professionals, students, and researchers providing leadership, foresight, influence, and direction in best practices, education, and leading-edge research. IEEE must be agile in its operations to champion technically and financially sound services and alliances. To sustain its excellence, IEEE must focus on its financial future, the quality of its core assets, and the needs of its membership.

With my extensive experience as an IEEE volunteer, and if elected as Division Director representing Computer Society, I would provide valuable guidance for strategies and tactics for effective strategic planning, financial accountability of boards and committees. As an IEEE volunteer, I aim to inspire future generations of engineers and scientists through leadership and contributions in IEEE committees. I am deeply committed to advancing equity, diversity and inclusion (EDI) at all IEEE levels.

For IEEE Division Delegate-Elect/Director-Elect, 2020  
IEEE Division Delegate/Director, 2021-2022  
Division X (CISS, CSS, EMBS, PHOS, RAS, SMCS)



**DALMA NOVAK**

(Nominated by IEEE Division X)

VP of Engineering  
Pharad, LLC  
Hanover, Maryland, USA  
<http://www.pharad.com/>

Dalma Novak is VP of Engineering at Pharad where she develops RF-over-fiber technologies. She received the Bachelor of Engineering and PhD degrees from the University of Queensland, Australia, in 1987 and 1992, respectively. Prior to co-founding Pharad in 2004, she spent 12 years as a Professor and Chair of Telecommunications in the Department of Electrical and Electronic Engineering at The University of Melbourne, Australia. From June 2001 – December 2003 she was a Technical Section Lead at Dorsál Networks, Inc. and later at Corvis Corporation where she led cross-disciplinary R&D teams developing WDM hardware for long-haul transmission systems. Her research interests include microwave photonics, fiber radio systems, wireless communications, and optical communication systems. She has published more than 300 papers in these areas, including seven book chapters. She is a lifelong IEEE volunteer and regularly promotes STEM and diversity outreach. In 2007 she was elected to the grade of IEEE Fellow.

**IEEE Accomplishments and Activities**

(S'90-M'91-SM'01-F'07)

COMMITTEES/BOARDS:

- Member, IEEE New Initiatives Committee, 2018-present
- Member, IEEE Fellow Committee, 2017-present
- Member, IEEE Public Visibility Committee, 2016-2017
- Member, TAB AdHoc Committee on Women and Underrepresented Minorities, 2016
- Member, IEEE Disruptive Innovations Committee, 2015
- Member, IEEE Photonics Award Committee, 2019-2020

SOCIETIES:

- Photonics Society:
  - President, 2014-2015
  - Secretary Treasurer, 2012-2013
  - Member, Board of Governors, 2011-2013
  - Member, Industry Engagement Committee, 2017 present
  - Chair, Awards Committee, 2019-present
  - Member, Technical Subcommittee on Microwave Photonics, 2005-2009 (Chair 2007-2009)
- Microwave Theory and Techniques Society:
  - Member, Awards Committee, 2019
  - Member, Fellow Committee, 2011-2012
  - Member, Technical Subcommittee on Microwave Photonics, 2005-2015 (Chair 2009-2013)
  - Member, Subcommittee, Branding and Communications, 2019

SECTIONS/CHAPTERS:

- Chair, IEEE Australia Council, 1999-2000
- Chair, IEEE LEOS/EDS Victorian Chapter, 1999-2001

- Member, IEEE LEOS/EDS Australian Chapter Executive Committee, 1996-1998
- Member, IEEE Victorian Section ExCom, 1993-2001 (Chair 1996-1999)

#### CONFERENCES:

- IEEE Photonics Conference:
  - General Chair, 2012
  - Member at Large, 2011
  - Technical Program Chair, 2010
  - Member, Technical Program Committee (TPC), 2000-2009
- Optical Fiber Communications Conference:
  - Member, Steering Committee, 2018-present
  - Member, TPC, 2005-2007, 2010-2012
- IEEE International Topical Meeting on Microwave Photonics:
  - General Co-Chair, 1999
  - Member, TPC, 1998, 2002, 2006, 2013, 2014, 2015, 2018 (Co-Chair 2015, 2017)
  - Member, Steering Committee, 1996-2002, 2004-2012 (Chair 2000)
- IEEE International Microwave Symposium (IMS):
  - Member, TPC, 2003-2012, 2017 (Chair 2007-2009)
  - Member, Steering Committee, 2011, 2018

#### PUBLICATIONS:

- Associate Editor, *IEEE/OSA Journal of Lightwave Technology*, 2002-2007, 2018-present
- Associate Editor, *IEEE Photonics Technology Letters*, 2009-2019

#### AWARDS:

- IEEE Photonics Society Engineering Achievement Award, 2018
- IEEE Photonics Society Distinguished Service Award, 2018
- IEEE Millennium Medal, 2000

#### MAJOR ACCOMPLISHMENTS:

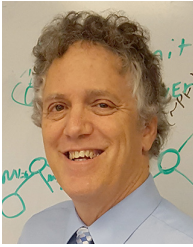
- Initiated the launch of the Photonics Society's Women in Photonics program
- Led the development of the Photonics Society's Chapter Leadership Forums
- Drove the formation of the Photonics Society's Industry Engagement Committee

### Statement

Member participation in the management of the IEEE is crucial to its continuing vitality. The technical Societies and Councils are the incubators for new opportunities and innovations that enable the IEEE to maintain its position as a global leader in science and technology. If elected, I would work diligently to support and drive these efforts by:

- Supporting the Societies and Councils of Division X to work together to create new initiatives and innovations that embrace emerging technical fields and advance the IEEE mission;
- Acting as the collective voice for all members of Division X and promoting transparency in the management of IEEE;
- Supporting the efforts of the Division's Societies to create new, readily accessible resources and services for members that recognize the diversity of the profession and enhance the value of membership;
- Promoting increased participation and engagement of members in the activities of the Societies and the value of Society membership to the wider technical communities;
- Maintaining the strengths and leadership of the Division X Societies through the sharing of best practices and new ideas.

For IEEE Division Delegate-Elect/Director-Elect, 2020  
IEEE Division Delegate/Director, 2021-2022  
Division X (CISS, CSS, EMBS, PHOS, RAS, SMCS)



**LAWRENCE O. HALL**

(Nominated by IEEE Division X)

Distinguished University Professor  
University of South Florida  
Dept of Computer Science & Engineering, ENG 060  
Tampa, Florida, USA  
<http://www.cse.usf.edu/~lohall/lohelec.html>

Larry Hall is Distinguished University Professor in the Department of Computer Science and Engineering at the University of South Florida. He served as Department Chair from 1/2008-8/2015. In Fall 2015 he was a Distinguished Fellow of the Notre Dame Institute for Advanced Study. He earned a 1986 Computer Science Ph.D. from Florida State University. A fellow of IEEE, AAAS, IAPR and AIMBE, he received the Norbert Wiener Award in 2012 and the Joseph G. Wohl Award in 2017 from the IEEE Systems, Man and Cybernetics (SMC) Society. USF presented him with the 2017 Theodore and Venette Askounes-Ashford Distinguished Scholar Award. He earned an award for outstanding mentorship in the McNair program for minority undergraduate students. He has authored/co-authored over 90 journal publications, as well as many conference papers and book chapters. His work has been cited over 22,000 times, H-index 54 (GS). He has received over \$5.2M in research funding.

**IEEE Accomplishments and Activities**

(S'85-M'85-SM'98-F'03)

**Selected IEEE activities:** President of the IEEE Systems, Man and Cybernetics (SMC) Society for 2006-07, Editor-In-Chief of the *IEEE Transactions on Systems, Man and Cybernetics, Part B*, 2002-05, VP for Membership of the SMC Society 2002-04.

IEEE Technical Activities Board (TAB) Representative to Educational Activities Board (EAB), 2008, Publications Services and Products Board (PSPB) 2008, IEEE Periodicals Committee, 2009. He served as the first Vice President for Publications of the IEEE Biometrics Council 2008-10. He was on the IEEE Conference Publications Committee 2011. He has served the Publications Services and Products board (PSPB) in various capacities since 2010. He served on the IEEE TAB/PSPB Products & Services Committee (2013) and the IEEE Periodicals Review and Advisory Committee (2014-16). He was a Member 2017 IEEE Ad Hoc Committee on Strategic Alignment & Oversight. He was on the IEEE Access Editorial Board, 2013-18.



He is currently IEEE PSPB Treasurer and a 2018-19 member of IEEE FinCom. A member of the IEEE Joint PSPB-TAB Pubs Strategy Ad Hoc 2019. He is past chair of PSPB's Strategic Planning Committee (2015-17) and past Chair of the IEEE Publishing Conduct Committee (2014-15).

### Select Accomplishments:

- As EIC was the first to rapid post articles to Xplore.
- As EIC reduced review time and worked to have some of the first attachments (animations, code, etc.) to publications.
- As President, improved reserves and got EICs in place towards increasing periodical quality, seeing impact factors improve.
- As Publications Conduct Committee chair worked to have clear recommendations that the VP could, typically, simply approve. This streamlined the process.
- As PSPB SPC chair helped guide a specific, measurable, attainable, relevant, time-bound (SMART) strategic plan that could be and has been updated to reflect the fast moving publications world.

### Statement

If elected, I will work hard towards helping Division X evolve to provide more engagement of members and successfully navigate the open access publishing movement.

Member engagement is key for strong societies. Our conferences remain a great way for people to meet and learn. Getting select targeted information from conferences to members unable to attend can increase engagement and satisfaction. Utilizing social media platforms to enable member interaction through posts and discussion will continue to add value.

The Open Access and Open Science movements must be effectively addressed **now** to keep IEEE society publications at the technical leading edge. My experience with publications will help us navigate the goal of retaining fiscal stability as open access mandates from funders and institutions take effect. Timeliness, efficiency, price and access for all to publish must be well addressed as we continue to focus on high quality publications of interest to our members and everyone involved in our respective fields. Open access options are necessary with careful consideration given to the sustainability of our overall publishing model.

For IEEE Region Delegate-Elect/Director-Elect, 2020-2021  
IEEE Region Delegate/Director, 2022-2023  
Region 1 (Northeastern USA)



**BALA S. PRASANNA**

(Nominated by IEEE Region 1)

Senior IT Manager/Executive (Retired)  
AT&T and IBM  
Holmdel, New Jersey, USA

With a rewarding and exhilarating career of over 35 years that began by joining the workforce during the nascence of the Information Technology revolution, I have architected, developed, managed and supported several multi-million-dollar mission-critical software systems. I have taught computer science, information technology, and career management courses at various universities. I was mentored by some of the best and brightest in the industry throughout my career in various job roles as college professor, principal technical staff member, and senior IT manager/executive at SUNY, Bell Labs, AT&T & IBM and consistently ranked high among peers for leadership, management, humanistic skills and a record of results.

I am an IEEE Senior Member and have been a volunteer for over 25 years. I have served on the IEEE-USA Board of Directors, IEEE Region 1 ExCom and Board of Governors (present) and as New Jersey Coast Section Chair. More at <https://youtu.be/ofeYJ4wsQic>.

**IEEE Accomplishments and Activities**  
(M'89-SM'00)

I have significant insight and experience into all aspects of the Region Director, thanks particularly to my time served as Region 1 Treasurer (9 years and counting) and IEEE-USA Board Member (2 years). At the grassroots level, having served in various roles including chapter and section chair, I have a fundamental top-down and bottom-up understanding and appreciation of how things work and what needs fixing.

Working with disparate teams, and being in the thick of high visibility situations, has taught me well to endure and come out with heads held high and a win-win outcome for all involved.

**IEEE Activities:**

- IEEE Region 1 EXCOM/BOG, Treasurer 2010-present (Audits, Timely Reimbursements, oversee Compliance of all region OUs)
- IEEE FINCOM Member 2016, 2017 (assessment increase for IEEE-USA)
- IEEE-USA Board Member – Secretary/Treasurer 2016 & 2017 (reappointed) (Strategy sessions for a new IEEE-USA, Budget)
- IEEE METSAC Vice Chair

- IEEE-USA PACE/SPAC National Speaker – (National & International, over 70 talks)
- IEEE Region 1 SPAC Coordinator
- IEEE NJ Coast Section – Chair, Vice Chair, Secretary, Awards Chair (present), Section rejuvenation

**Awards/Recognitions:**

- IEEE Third Millennium Award
- IEEE Region 1 Award

**Publications:**

- IEEE technical publications on Software Reliability Engineering

**Statement**

*As IEEE Region 1 Treasurer*, I provided unblemished and accurate reporting, supported audits, provided timely service to volunteers, and led and oversaw completion of region-level compliance by section/chapter treasurers. My time spent investigating, understanding, analyzing, and putting forth a moderate solution in several critical issues have made me a person to lean on by region leaders.

*As IEEE-USA Secretary/Treasurer and FINCOM member*, I was hands-on in learning and providing my input on financial matters from top-down perspective.

I consider it an honor and privilege to be nominated by region 1 leadership as candidate for Region Delegate/Director.

If elected, I would work closely to empower fellow volunteers in policy and practical matters to be able to deliver maximum benefits to membership, be diligent in overseeing how every dollar is received and spent, and build and broaden relationship with peer volunteer leaders and IEEE staff to implement what is best for Region 1.

For IEEE Region Delegate-Elect/Director-Elect, 2020-2021  
IEEE Region Delegate/Director, 2022-2023  
Region 1 (Northeastern USA)



**GREG T. GDOWSKI, PhD**

(Nominated by IEEE Region 1)

Executive Director and Associate Professor  
Center for Medical Technology & Innovation  
University of Rochester  
Biomedical Engineering Department  
Rochester, New York, USA

<http://www.rochester.edu/college/faculty/gdowski/>

Dr. Gdowski studied at Boston University and received his PhD in Biomedical Engineering in 1996. He has worked in the academic research, industry, and incubation settings. He served on the faculty in Biomedical Engineering at the University of Rochester from 2001-2010 where he established and managed a NIH-funded research laboratory in vestibular sensory processing. From 2010-2012, he worked at Blue Highway (a Welch Allyn subsidiary) located at Syracuse University, as a Senior Research Engineering Fellow. At Blue Highway he managed ideation, invention, incubation, and subsequent innovation opportunities for Welch Allyn. In 2012, he returned to the University of Rochester and serves as the Executive Director of the Center for Medical Technology & Innovation. The Center manages a unique MS program and coordinates educational and entrepreneurial activities related to the development of novel technological solutions to clinical problems. As Executive Director, he has mentored over 60 MS students.

**IEEE Accomplishments and Activities**

(A'01-M'01-M'08-M'12-SM'15)

**Accomplishments**

I have served as the Chair of two Sections within R1 (Rochester and Syracuse) over a five year period. In those roles, I have managed the largest annual meetings in the Western Area of R1 including: the Syracuse Fellows Night and the Rochester Joint Chapter and summer meetings. As Rochester Section Chair, I managed the Section's Centennial Celebrations and hosted the R1 Board of Governors meeting. One of my goals was to improve the communication with our members. I created new web pages and enhanced the overall appearance of email communications to members resulting in the Section meeting both of its MGA recruitment and retention goals.

At the Regional level, I have served on the R1 Board of Governors for seven years. For the last four years, I have served as the Information Management Coordinator and Webmaster. I have been responsible for revitalizing the R1 webpages and serve as the main conduit for conveying information to

members across R1. I have created training videos and have led sessions for R1 in utilizing vTools to engage members. In 2018, I joined the R1 Executive Committee as the Western Area Chair and manage five western NY Sections within R1.

## Selected IEEE Activities

Region:

- R1 Board of Governors (2011-2012, 2014-present)
- R1 Executive Committee (2018-present)
- R1 Information Management Coordinator and Webmaster (2016-present).
- R1 Western Area Chair (2018-present).

Sections/Chapters:

- Rochester Section Chair (2014-2017).
- Syracuse Section Chair (2011-2012).
- Rochester Section Webmaster (2015-present).
- Rochester Section Vice Chair (2009-2010, 2013-2014).
- Rochester EMBS Chapter Chair (2008-2010).

IEEE Awards:

- IEEE-USA Regional Professional Leadership Award (2015): demonstrated leadership efforts in advancing the professional aims of IEEE in Region 1, specifically in revitalizing the Rochester Section and the photonics community.
- R1 Technical Excellence Award (2014): technical innovation & leadership in the fields of biomedical engineering & neurobiology.

## Statement

One of the greatest challenges is to find new ways to increase membership value. My roles as the R1 Information Manager and Western Area Chair has given me the experience in working with the leadership across R1. This will greatly help me in developing strategies and motivating the R1 leadership in building a better IEEE community through the following goals and priorities:

1. **Improve the sense of community across R1.** More extensive communications are needed from the Region to Sections and our membership. Members will perceive greater value in being connected to a regional network with diverse activities and professionals.
2. **Prioritize membership recruitment and retention throughout R1.** Regional recruitment will be targeted at large schools with low numbers of undergraduate members. The R1 Student Conference will be expanded by adding career development workshops and opportunities for graduate students.
3. **Increase the promotion of women engineers and young professionals (YP).** More active recruitment of women and YPs to R1 leadership. More active role in promoting R1 Women in Engineering (WIE) across all Sections.

For IEEE Region Delegate-Elect/Director-Elect, 2020-2021  
IEEE Region Delegate/Director, 2022-2023  
Region 3 (Southern USA)



**THERESA A. BRUNASSO**

(Nominated by IEEE Region 3)

Founder and President  
D&S Microwave  
Atlanta, Georgia, USA  
[www.dsmicrowave.com](http://www.dsmicrowave.com)

Theresa Brunasso, Founder and President of D&S Microwave, is a 30-year veteran in the field of Electrical Engineering. Prior to starting D&S Microwave, she spent more than 20 years at EMS Technologies. At EMS, Theresa served as Microwave Engineering Manager, Director of Technology Development, and provided innovative design and development expertise for numerous programs, including JSTARS, XM Radio, DarkStar, NSTAR, Milstar, Advanced EHF, IntelSat and the Mars Science Lab. Since starting D&S Microwave she has worked with clients including LTC Engineering Associates, General Dynamics SATCOM, Sierra Microwave Technology, Flight Display Systems, COM DEV USA, Cobham and GTRI. Theresa holds an Engineer's Degree and M.E. in Electrical Engineering from the University of Utah, and a B.S. in Physics from the University of West Florida. She is a member of Sigma Pi Sigma, the National Physics Honor Society, a Senior Member of IEEE, and an officer of the Georgia Engineering Foundation.

**IEEE Accomplishments and Activities**  
(S'82-M'82-SM'10)

COMMITTEES/BOARDS:

- PACE Committee 2015 to present
- TAB Conferences Committee starting 2019

REGIONS:

- Region 3 Professional Activities Committee Chair 2017 to present

SECTIONS/CHAPTERS:

- Atlanta Section Chair 2016 & 2017
- Atlanta Section Vice Chair 2015
- Atlanta Section Secretary 2013 & 2014

- Atlanta PACE Chair 2012, 2013 & 2014
- Employment Assistance Volunteer 2011
- Region 3 PACE chair 2015, 2016, 2017 & 2018
- Atlanta WIE Secretary 2011-2015

#### SOCIETIES:

- IEEE Microwave Theory and Techniques Society (MTTS)
- IEEE Antennas and Propagation Society (APS)

#### ACCOMPLISHMENTS:

- Awarded the Atlanta Section Volunteer of the Year in 2011 for developing employment assistance activities.
- Awarded the Region 3 Professional Leadership award in 2012 for developing multiple PACE activities.
- Awarded the Region 3 Outstanding Volunteer award in 2018 for work as Atlanta Section Chair and Region 3 Professional Development Committee chair.
- As Atlanta Section Chair, we started two chapters (TEM & ED/PHO), won honorable mention for member retention in 2016, and won the Region 3 award the for most Senior Member upgrades elevations in 2017.

### Statement

My primary goal is to provide more Region support for local Sections and Councils. I believe that the biggest impact on members occurs at the Section level, and our region has the largest number of Sections in the U.S. I know that some of our Sections are struggling. I would work to have events and meetings in different sections to provide both exposure and support. In addition, I would work to replace the IEEE-USA PACE funding that is vanishing in a few years, so that Sections and Councils can continue to provide Professional Activities for their members.

For IEEE Region Delegate-Elect/Director-Elect, 2020-2021  
IEEE Region Delegate/Director, 2022-2023  
Region 3 (Southern USA)



**ERIC GRIGORIAN, P.E., PMP**

(Nominated by IEEE Region 3)

Chief, Aviation Systems Program Office  
Chief Engineer, Applied Systems Laboratory  
Principal Research Engineer  
Georgia Tech Research Institute  
Applied Systems Laboratory  
Huntsville, Alabama, USA

<https://www.linkedin.com/in/egrigorian/>

Eric Grigorian is Chief Engineer and Chief of GTRI Applied System Laboratory's Aviation System Program Office, and recipient of GTRI's Distinguished Performance Award in Program Development. Prior to GTRI, he was the Director of Engineering and Manufacturing for Yulista Aviation, responsible for full life-cycle support of product development and production of systems for the US Army Prototype Integration Facility. He was Vice-President of Engineering and Manufacturing at AAR Integrated Technologies (2010-2012), developing product for US Air Force, US Army, and US Marines in support of Command and Control Systems. He has over 35-years of direct engineering career supporting commercial and defense industries. He holds 2 US Utility patents and 1 Provisional patent. He is an IEEE Senior Member, recipient of 2019 James Beall SoutheastCon Recognition Award and 2006 IEEE Region 3 Outstanding Engineer of the Year Award. He received numerous additional awards from previous employers, IEEE, and local technical societies.

**IEEE Accomplishments and Activities**

(S'81-M'86-S'87-M'87-S'88-M'91-SM'05)

- General Chair, IEEE SoutheastCon 2019, 2016-Present
- Member, IEEE USA US Government Community of Interest Ad Hoc Committee, 2018-Present
- Organizing Committee Member, IEEE International Conference on Wireless for Space and Extreme Environments, 2017-2018
- Member, IEEE Region 3 Conference Committee, 2016-Present
- Member, IEEE Region 3 Award and Recognition Committee, 2016
- Chair, IEEE Region 3 Area 6, 2015-Present
- IEEE Section representative to Huntsville Area Technical Societies (HATS), 2012-Present
- Chair, IEEE Huntsville Section, 2012-2013



- Chair, IEEE Huntsville Section Conference Committee, 2009-Present
- Co-Chair, IEEE SoutheastCon 2008, 2006-2008
- Chair, IEEE Huntsville Section 50th Anniversary Organizing Committee
- Chair, IEEE Huntsville Section Joint Communication, APS, MTT (JCAM) Society, 2003
- Steering Committee, IEEE RadarCon 2003, 2002-2003
- Steering Committee, IEEE AutoTestCon 2002, 2001-2002
- Chair, IEEE Huntsville Section, 2001-2002
- Vice-Chair, IEEE Huntsville Section, 1999-2000
- Chair, IEEE Huntsville Section AESS Society, 1998-1999
- Chair, IEEE Huntsville Section Educational Activities, 1997-1998
- Chair, IEEE UAH Student Chapter, 1982-1984
- Vice-Chair, IEEE UAH Student Chapter, 1981-1982
- Vice-Chair, UAH Eta Kappa Nu Chapter, 1982-1983
- Member, IEEE, 1981-Present

## Statement

As an active IEEE volunteer for over 37 years, with technical and executive experience that include cross-domain management of technical teams nationally and internationally, I have the leadership skills to organize and enhance member benefits and engagement. As my continued efforts to serve IEEE members of Region 3, my priorities would be to promote our members career advancement. I will work to:

1. Provide our regional members with the means to expand their skill set, increase communication and collaboration with others within their technical expertise and across other domains, and promote participation in leadership opportunities.
2. Expand interaction of Young Professionals (YP) with YPs of other technical societies, provide mentorship, and expand networking opportunities to engage participation in leadership roles.
3. Expand IEEE Region 3 Section's visibility within their respective communities through increased promotion of IEEE value proposition.
4. Increase collaboration and joint exchange of information among IEEE and other technical societies.
5. Reach out and extend support to members that are in geographical areas not served by the existing Sections/Subsection structure.

For IEEE Region Delegate-Elect/Director-Elect, 2020-2021  
IEEE Region Delegate/Director, 2022-2023  
Region 5 (Southwestern USA)



**BOB G. BECNEL, PE**

(Nominated by IEEE Region 5)

Electrical Engineer  
The Boeing Company  
Autonomous Systems  
Saint Louis, Missouri, USA

Bob Becnel is a Electrical Engineer with a focus on airborne communications with The Boeing Company in Saint Louis on an autonomous systems program for the United States Navy. Since joining Boeing in 2005, Bob has been active in a broad range of communication and sensor systems. Previously, he was a Member of the Technical Staff at Lucent Technologies, where he was engaged in the design of large communication networks and has nearly 30 years of professional experience. Currently, Bob is incoming President for Missouri Society of Professional Engineers and a Professional Engineer. Bob holds a B.S.Co.E. and B.S.E.E. from The University of Missouri and a M.S.E.E. from Washington University in St. Louis. Bob has been an adjunct instructor for several years at Washington University. Bob is married and has two daughters currently in college. He and wife Verla live in Imperial, MO.

**IEEE Accomplishments and Activities**  
(M'00-SM'03)

**Committees/Board**

- MGA Training Committee (2019-present)
- IEEE Intelligent Transportation Systems Conference, Exhibits Chair (2009)
- IEEE Globecom Saint Louis, Exhibits Chair (2005)

**Region**

- Region 5 Treasurer, Term 2 (2016-2017)
- Region 5 Treasurer, Term 1 (2014-2015)

**Section**

- Past Chair, Saint Louis Section (2012)
- Chair, Saint Louis Section (2011)
- Vice Chair, Saint Louis Section (2010)
- Treasurer, Saint Louis Section (2009)
- Secretary, Saint Louis Section (2008)
- IEEE Sections Congress Delegate, Saint Louis Section (2008)

**Student Branch**

- Counselor, Washington University in St. Louis (2014-present)

## **Awards**

- Director's Special Service Award (2017)
- Outstanding Section Member for Saint Louis Section (2011)

## **Others**

- Internal Boeing IEEE Committee, (2008-present)
- Internal Boeing IEEE Committee, Newsletter Editor (2008-2017)

## **Major Accomplishments**

- As Treasurer, consistently kept 100% financial reporting compliance and rebate among all Sections.
- Fiscal responsibility and quality audits.
- Establishment of Region Finance Committee chaired by the Treasurer to more efficiently handle financial decisions.
- Professional and prompt rapport with Section Treasurers on an ongoing basis.
- Awarded nearly 40 cash awards to student competition winners on an annual basis.
- As Section Chair, re-engaged Branches and Chapters with the Section Executive Committee.

## **Statement**

I appreciate the breadth and depth of the position of Delegate-Elect/Director-Elect and Delegate/Director. After serving two terms in the role of Region Treasurer, I am day one ready to step into the position. If elected, the following are some examples of my priorities that I am passionate about.

- Develop affiliate membership opportunities that can expose and attract more women and minority engineers to IEEE.
- Industry Outreach utilizing Society publications, tutorials and training materials that leverage membership value and non-dues revenue from professionals.
- Vigorously market the Region to IEEE Societies in order to promote Conference opportunities throughout Region 5.
- Support Sections and Young Professionals through additional training and leadership opportunities. Develop a pro-active rejuvenation plan for Sections and Chapters showing signs of inactivity and financial strain to mitigate membership losses.
- Assist full time faculty Branch Counselors through the establishment of a mentorship program among industry and retired members to coach students and keep Branches active.

I look forward to serving you as Region 5 Delegate-Elect/Director-Elect in 2020-2021.

For IEEE Region Delegate-Elect/Director-Elect, 2020-2021  
IEEE Region Delegate/Director, 2022-2023  
Region 5 (Southwestern USA)



**KEN STUERKE, PE**

(Nominated by IEEE Region 5)

Senior Electrical Engineer (Retired)  
MKEC Engineering Consultants  
Wichita, Kansas, USA

Ken recently retired from a position as Senior Electrical Engineer at MKEC Engineering Consultants in Wichita where his primary duties included industrial power design and arc flash analysis. He is a Professional Engineer registered in seven states. Early in his career, Ken was employed as an electrical design engineer in the aviation industry. He worked at Cessna Aircraft, Beech Aircraft, Douglas Aircraft, Raytheon Aircraft and Hawker-Beech Aircraft. He did design work on the electrical system on the Beech Starship, Raytheon Premier I, Beechjet and Hawker. He also did a two year stint in aircraft accident investigation, working closely with the NTSB to determine the cause of Beech Aircraft accidents.

Ken's hobbies include playing piano. Starting as a teenager, he worked as a professional musician for 15 years, putting himself through college. He still occasionally plays professionally, accompanying Jenny Wood, a well known Wichita vocalist.

**IEEE Accomplishments and Activities**

(S'82-M'84-SM'09-LS'17)

Ken Stuerke joined IEEE while at Western Kentucky University as a Student Member in 1982. After graduation and a move to Wichita, KS, he began his association with the Wichita Section in 1984, where he has served as Treasurer, Vice-Chair, Awards and Recognition Chair, Educational Activities Chair, and Student Activities Chair. He is currently a life senior member and Chair of the Wichita Section. Ken is a member of the IEEE Industrial Applications Society.

At the Region 5 level, Ken has served on the Audit Committee from 2016 through 2019, most recently as Chair. In 2019, he accepted the appointment as Career and Employment Activities Coordinator. He has attended two Sections Congress events as the Wichita Section Representative.

## Statement

My vision for IEEE is for all members to make it their professional home, both technical and practical. To that end I would promote programs to provide assistance for members to enter a technical society at a reduced cost for the first year. I would also promote programs to help members with career and employment issues, such as a resume archive and resume assistance.

Because of my lack of experience at the Region level, I would count on assistance from the current Director and Director-Elect in learning the job.

For IEEE Region Delegate-Elect/Director-Elect, 2020-2021  
IEEE Region Delegate/Director, 2022-2023  
Region 7 (Canada)



**ROBERT L. ANDERSON**

(Nominated by IEEE Region 7)

Principal Consultant

Itron Inc.

Calgary, Alberta, Canada

<http://sites.google.com/view/rlanderson/candidate-for-r7-director>

Rob is Principal Consultant at Itron Inc., a world leader in metering equipment and information management solutions for electric, gas and water utilities. He performs engineering tasks as part of Itron's Global Solutions Delivery Group. In his role he uses business process re-engineering to develop technical solutions and management processes for the implementation of systems or enterprise wide solutions using Itron's hardware and software products.

Prior to forming SIMMARIX, an independent Meter Data Management and Consulting Organization, Rob worked for ENMAX Corporation, the electric utility for his home city of Calgary. During his eleven-years at ENMAX, he held numerous positions with increasing responsibility in management, customer service, engineering and contracts management.

Rob is active in the engineering profession. His volunteer activities include IEEE volunteer of 25+ years, APEGA Mentoring Program mentor, speaking with U-Calgary new engineering students about careers and, regularly judges at science fairs and student project/paper competitions.

**IEEE Accomplishments and Activities**

(S'88-S'91-M'91-SM'99)

**Committees/Boards:** 2018 & 2019 IEEE Awards Board Treasurer; 2019 Member, MGA Nominations and Appointments Committee; 2013 MGA Representative to Publication Services and Products Board (PSPB); Past MGA Treasurer 2012; MGA Treasurer 2010 & 2011; RAB MDC (Membership Development Committee) 2000-2003; RAB Finance Committee, Member 2004, 2012 & 2013; Member of the SG4P (Smart Grid for Practitioners) Conference Steering Committee

**Region:** 2012-2015 IEEE Canada Audit Committee Chair; 2004-2009 IEEE Canada (Region 7) Treasurer; 2007 Judge at IEEE Canada TELUS Innovation Competition; 2004 Judge IEEE Canada Web Page Competition; 2000-2003 Membership Development Chair; 2002 Region 7 Sections Congress Coordinator; 2001 Chair Electronic Services Review Committee; 1997

Member IEEE Canada Audit Committee

**Section:** 1997-2000 Southern Alberta Section Chair; 1995-1996 Southern Alberta Section Vice-Chair

**Chapter:** 1994-1995 PES/IAS Chapter Chair; 1992-1993 PES/IAS Chapter Vice-Chair

**Conferences:** 2010 General Chair Canadian Conference on Electrical & Computer Engineering; 2008 and 2005 Speaker for Sections Congress on Financial Management; 2002 Speaker for Sections Congress on Section Management; 1999 Wescanex Organizing Committee; 1997 Petroleum & Chemical Industry Conference Organizing Committee; 1996 Canadian Conference on Electrical and Computer Engineering Facilities Coordinator; 1993 Chair Alberta Power Quality Conference; 1993-1996 Organizing Committee Alberta Power Quality Conference

**Other:** Member of IEEE Power and Energy Society

**Recognitions:** In May 2004, he received the IEEE Western Canada Council Ted Glass Merit Award for *"Outstanding contribution, dedication and leadership to the Southern Alberta Section, Western Canada Council and IEEE Canada."* Rob also received the Institute of Electrical and Electronic Engineers (IEEE) Millennium Medal for outstanding service to the organization in 2000.

## Statement

The membership demographic of IEEE Canada is vibrant and dynamic; however, the number of members we lose year to year is significant. The Region has done an excellent job of focusing on Students and the Young Professionals. IEEE Canada also needs to focus on members outside of these groups. The opportunity is to promote the value of belonging to IEEE throughout a member's entire career.

I also want to expand cooperation between IEEE Canada Sections and interactions with the industry.

The touch point with the general membership is the local Sections and Chapters. The Region must ensure that every Section has the expertise, resources and tools necessary to effectively deliver: 1) membership value message, 2) worthwhile technical programs, and 3) career related assistance.

My plan is to carry out a structured review of our current operational practices to discover new opportunities, address our challenges and transform our ideas into actions.

If elected Region Director, my goal is to ensure our Region's continued growth, maintain our fiscal strength and expand the value to our members.

For IEEE Region Delegate-Elect/Director-Elect, 2020-2021  
IEEE Region Delegate/Director, 2022-2023  
Region 7 (Canada)



**VENKATARAMAKRISHNAN "RAMA" VINNAKOTA**

(Nominated by IEEE Region 7)

Transmission Planner  
BC Hydro, Transmission Planning  
Vancouver, British Columbia, Canada  
[www.ramavinnakota.com](http://www.ramavinnakota.com)

Rama Vinnakota is a planner in BC Hydro Transmission Planning, a power utility in British Columbia. He received his Masters in Power System Analysis from Indian Institute of Technology (IIT)-Delhi (1985) and Masters in Management (1991.) He is a registered Professional Engineer (P.Eng.) with over 30 years experience, functioning in several areas of private and public sector utilities. He worked on 500,000-Volts transmission reinforcement project in BC. He performed extensive studies leading towards 2010 Energy policy development of BC, and worked on several generation, load interconnections, Regional Transmission Planning and Network Integration Transmission (NITS) Studies. He is involved in compliance with some of the NERC Mandatory Reliability Standards for ensuring Reliability of Integrated Bulk Electric System in North America.

Rama also worked as a Technical consultant in developing prototype for real time reactive power optimization tool. He is passionate and enjoys volunteering for IEEE for over a decade and half.

**IEEE Accomplishments and Activities**

(M'06-SM'07)

Volunteered as:

- Chair, IEEE Vancouver Section 2017, one of the largest Sections in Canada. Handed over a sum of \$50,000 to IEEE Canadian Foundation (ICF) towards corpus fund of Vancouver student's scholarship. He helped the Vancouver Section executive team raise funds over several years. Ensured a strong contingent of four representatives from the Vancouver Section could attend the 2017 world IEEE Sections Ccongress in Australia.
- Vice Chair, Vancouver Section 2016. Actively revived Teachers in Service Program (TISP), inspired several young professionals to actively participate in IEEE activities and volunteer for Section executive positions.
- Chair, Power and Energy Society (PES) Chapter 2012-2014, one of the largest Chapters in Canada. Local PES chapter was actively involved and contributed in organizing the 2013 PES Annual General Meeting of five-day duration.



- Organizing Committee, 2008 IEEE Canada Electrical Power and Energy Conference (EPEC)
- Volunteering in IEEE Canada since 2001.

### **Accomplishments:**

I sincerely acknowledge the spirited collaboration and support from many fellow volunteers for all the accomplishments:

- Received Exemplary Large Section awards for 2016 and 2017. Vancouver Section organized about 141 meetings with 84 technical and professional meetings across all Chapters for advancement of professional community in 2017. In 2016 also similar level of activities were performed.
- High-performing PES Chapter for all three years as chair 2012, 2013 and 2014. Also organized several workshops, distinguished lectures and technical presentations while collaborating with local, national and international personalities during my period as chair from 2012-2014.
- Awarded the second place in the membership contest for large PES chapters with an increase in membership of 17% in 2013.

### **Statement**

If elected, I will be striving IEEE remaining relevant for at least another 100 years while advancing technology for humanity. I will help IEEE be present with the many bright minds of the future generations at an early age to fascinate and influence their advancement of technology. I will advocate inclusiveness and technical diversity, with a strong belief in individual and collective accomplishments. I will nurture collective leadership of volunteers and members contribution to achieve the IEEE higher objectives with ease.

I will also:

1. Expand professional membership by aligning volunteer/members aspirations with their career aspirations within industry;
2. Further expand and invest IEEE resources to interdisciplinary disruptive technologies encompassing government and industry perspective, while evolving standards;
3. Create more collaboration opportunities across the IEEE Sections, Societies, Regions, and internationally;
4. Utilize the existing structure, policies, and procedures already in place, augment with new ones, that will enable the vision of the region to fruition; and
5. Allocate resources to reward members, student branches, sections, and society chapters to fulfill the aspirations of the region.

For IEEE Region Delegate-Elect/Director-Elect, 2020-2021  
IEEE Region Delegate/Director, 2022-2023  
Region 9 (Latin America)



**JOSE DAVID CELY**

(Nominated by Petition)

Professor  
Universidad Distrital Francisco José de Caldas  
Bogota, Colombia  
<http://josedavidcely.com/>

Jose David Cely is professor and member of the Technology Faculty at Universidad Distrital Francisco José de Caldas in Bogota, Colombia, since 2006. Developed his professional career mainly in the academic sector where he has been a professor in several universities in Colombia: Universidad Catolica de Colombia (2001-2006), Universidad Pedagogica de Colombia (2002-2004) and others. In 2006 he won the public merit contest for the Universidad Distrital career professor position; he has been in charge of subjects such as Wireless Networks, Microwaves, among others. Besides his teaching and research commitments, he has held several management positions including currently serving as the Electronics Laboratory Chief. In 2007 he received the Academic Excellence Recognition at same university.

In industry, his experience include Projects Engineer at "Research Telecommunications Center CINTEL" Bogota, Maintenance Chief at "Immunology Institute" Bogota, Research Engineer at "Technological Institute of Electronics and Communications ITEC-TELECOM".

**IEEE Accomplishments and Activities**

(S'95-M'00-SM'10)

Side by side with wonderful volunteers, I have been part of several achievements, for instance, the foundation of first IEEE Colombia Section Office, formation of new units as six Sub Sections, one Section, several chapters and student branches not only in Colombia but also Region 9.

**COMMITTEES/BOARDS:**

- TAB Representative to Graduate of the Last Decade Committee (GOLD) (2001-2002)
- Regional Students Activities Committee Representative (1998-1999)
- Regional Students Activities Committee Chair RSAC (2001)
- IEEE Communications Society Regional Director (2010-2011)
- Conferences Committee Adhoc on Global Perspectives Member (2016-2017)

**REGION 9:**

- Andean Council Chair (2016-2017)
- Technical Activities Chair (2012-2013)
- VOLT Advisor (2014-2017)

**COLOMBIA SECTION/CHAPTERS:**

- Section Chair (2017-2018), (2007-2008) Nominated by Petition
- Treasurer (2011-2014)
- Professional Activities Coordinator (2009-2010)
- Communications Society Chapter Co-Founder (2000) Chair (2016)

- (2005-2006) Nominated by Petition, Treasurer (2003-2004)
- Student Activities Coordinator (1998-2004)

#### STUDENT BRANCHES:

- Universidad Distrital Francisco José de Caldas, Counselor (2010-2011), Chair (1996-1997), Treasurer (1995), Membership Development (1994)
- Universidad Católica de Colombia Counselor (2002-2006)

#### CONFERENCES:

- 2019 IEEE International Conference on E-health Networking, Application & Services (HealthCom) Organizing Committee
- IEEE Latin America Conference on Communications (LATINCOM) Co-Founder 2009, Executive Director 2016, General Chair 2014, Standing Committee Member since 2009
- IEEE PES Transmission and Distribution Conference and Exposition: Latin America, Local Committee 2008, Executive Director 2014
- IEEE Andean Conference (ANDESCON) Publications Chair 2004, Executive Director 2010, Local Committee 2004
- IEEE Colombian Conference on Communications and Computing (COLCOM) Co-Founder 2007, Standing Committee Member since 2007
- 2011 IEEE PES Conference On Innovative Smart Grid Technologies LA, (ISGT LA) Treasurer

#### AWARDS:

- MGA Achievement Award 2010
- Outstanding volunteer Award "Oscar C. Fernández" 2010
- Communications Society Latin America: Distinguished Service Award 2009
- Third Millennium Medal 2000

#### TEAM AWARDS

- Student Branch Growth Award 1996
- ComSoc Chapter of the Year 2006
- ComSoc Chapter Achievement Award 2008, 2010, 2011, 2013, 2014, 2017
- Region 9 Best Achievement Award 2002, 2010, 2012, 2013

## Statement

Based on my 23 years volunteering experience, I think Region 9 is still in its foundation stage, a young open institution to dynamic processes with a great growth potential. This is the reason why my proposal is based on the following main points:

1. Strengthen the relationship between the Region and Sections with the Chapters and Technical Societies in order to convert our region in an interesting venue to attract the current and new world class events.
2. Promote continued education activities for professional development, strengthening the technological transfer to our industries.
3. Identify, promote and execute a regional outreach strategy to encourage the undergraduate students to choose engineering as a career path.
4. Supporting activities that privilege the interaction among member all grades, enabling the dialogue between generations, spreading our valued professional network and volunteers.
5. Promote the Region 9 financial health and their Sections

These goals will be reached with volunteers committed, experts on IEEE tools and skills to communicate to our members the plans, updates, and achievements.

Let's work together!

For IEEE Region Delegate-Elect/Director-Elect, 2020-2021  
IEEE Region Delegate/Director, 2022-2023  
Region 9 (Latin America)



**LORENA GARCIA**

(Nominated by IEEE Region 9)

Director of Laboratories and Facilities  
Faculty of Engineering and Basic Sciences  
Universidad Central (Central University)  
Bogota, Colombia

<https://www.linkedin.com/in/lorenagarciap/>

Lorena Garcia received her Electronic Engineering degree from Universidad del Norte (2006) and the M.Sc. in Electronic and Computer Engineering from Universidad de los Andes (2008). She has more than 10 years of experience in academic administration, teaching and research in important institutions in Colombia like Universidad de los Andes, Universidad Militar Nueva Granada and Pontificia Universidad Javeriana. Prof. Garcia has been Associate Dean of Electronic Engineering and Systems and Telecommunications Engineering programs at Universidad Sergio Arboleda, and Business Director of the Center of Excellence and Adoption on Internet of Things. She has also been consultant on design and certification of internal telecommunications networks. Currently, she is Professor and Director of Laboratories and Facilities of the Faculty of Engineering and Basic Sciences of Universidad Central.

**IEEE Accomplishments and Activities**

(S'03-GSM'05-M'08-SM'18)

**MAJOR BOARDS/COMMITTEES:**

- Educational Activities Board (EAB) Awards and Recognition Committee Chair, 2017-19
- Awards Board Policy and Portfolio Review Committee Member, 2019
- EAB Pre-University Coordinating Committee Member, 2019
- IEEE-HKN Globalization Committee Member, 2019
- Women In Engineering (WIE) Awards Liaison and WIE Awards Subcommittee Chair, 2019
- MGA Representative to EAB, 2016
- EPICS in IEEE Committee Member, 2016
- EAB Continuing Education Committee Member, 2016
- EAB Section Education Outreach Committee Member, 2016
- EAB University Resources Committee Member, 2016
- MGA Geographic Unit Operation Support Committee Member, 2016-17

**SOCIETY:**

- Circuits and Systems Society Board of Governors Member, 2015-17

**REGION:**

- Region 9 Secretary, 2018-19

#### SECTION/CHAPTERS:

- Colombia Section: Past Chair, 2017-18; Chair, 2015-17; Vice Chair, 2013-14
- Circuits and Systems Society Colombia Chapter: Chair, 2011-14; Secretary/Treasurer, 2007-11
- Colombian Caribbean Subsection Chair, 2006

#### STUDENT BRANCHES:

- Universidad Sergio Arboleda, Counselor, 2016-18
- Universidad de los Andes, Circuits and Systems Chapter, Advisor, 2009-10
- Universidad del Norte Student Branch Chair, 2004

#### CONFERENCES:

- IEEE Latin American Symposium on Circuits and Systems (LASCAS): Steering Committee Member, 2013-present; Treasurer, 2019; Publication Chair, 2012-2017; Local Arrangements Chair, 2011
- IEEE Colombian Conference on Robotics and Automation (CCRA): Treasurer, 2016, 2018
- IEEE Colombian Conference on Communications and Computing (COLCOM): Publication Chair, 2016
- IEEE International Conference on Very Large Scale Integration (VLSI-SoC) Publication Chair, 2014
- IEEE Ibero-American Congress on Sensors (IBERSENSOR) Publication Chair, 2014
- IEEE Colombian Workshop on Circuits and Systems (CWCAS): Local Arrangements Chair, 2006, 2007, 2009, 2012.

#### OTHERS:

- Eta Kappa Nu Member
- EAB TISP (Teacher-In-Service Program) Champion
- IEEE Colombia Section Outstanding Volunteer Award, 2011

### Statement

In my 16 years of continuous volunteering, I have gained a deep understanding of IEEE. If elected, I will put all my energy and commitment to contribute to grow and strengthen our Region. My work will be based on the following principles:

- For generating a real value for our membership, we need to improve our communication channels, listen to the members' needs and enhance the benefits for people in academia, industry and entrepreneurs, giving specific attention to young professionals and women in engineering.
- IEEE is a volunteer-led organization. Therefore, it's important to motivate, recognize, train and support our volunteers. Region 9 must act as a real supporter of sections, focusing on better understanding of their specific needs.
- Promote high-quality technical events at the regional level, tightening the collaboration with IEEE societies and other associations.
- IEEE is committed to advancing technology for the benefit of humanity, thus motivating new projects for humanitarian and educational activities, with real impact in our community, is imperative.

For IEEE Region Delegate-Elect/Director-Elect, 2020-2021  
IEEE Region Delegate/Director, 2022-2023  
Region 9 (Latin America)



**IRENE PAZOS VIANA**

(Nominated by IEEE Region 9)

Senior Information Technology Consultant  
BROU, Bank of the Republic of Uruguay  
Montevideo, Uruguay  
[www.linkedin.com/in/irenepazosviana/](http://www.linkedin.com/in/irenepazosviana/)

Irene Pazos Viana is Senior Information Technology Consultant at Bank of Republic of Uruguay. She received her Engineering Diploma from University of the Republic, an MBA from University of Saint Paul –Spain– and is an expert consulting in Information Technology. She has significant experience as Senior IT Consultant and quality appraiser in the region at Argentina, Brazil, Mexico, Ecuador, and Colombia. Has cross-field project experience, advancing from communications to software engineering and information security. With broad practice in project management, developed within global companies such as Citibank, Ford Credit and Tata Consultancy Services. Her work also includes government organizations like Mexican Secretary of Communications, and Uruguay Chamber of Senators of the Parliament among others. Outside of consulting, her experience includes the academia, as Professor in Universidad Catholic del Uruguay, and a recently launched startup entrepreneurship project.

**IEEE Accomplishments and Activities**  
(M'88-SM'10)

- Member of MGA – Joint Awards with National Societies (JANS) Committee 2019 and MGAGeographic Operations Support Committee (GUOS) Committee in the position of Region Vitality Coordinator, 2018.
- Founding member of Region 9 Cono Sur Council.
- Founding member of Uruguay Section, where served as Uruguay Section Chair, Section Secretary, Academic Coordinator.
- Current Uruguay Section Treasurer and Computer Chapter Chair.
- Created WIE and SIGHT Uruguay affinity groups.
- Worked for Uruguay Section in EPICS, TISPs and e-Scientia projects.
- Board member of Engineering Association Joint Award since its first edition.
- Collaborated with Region 9 *NoticIEEEro* as interview columnist.
- Latin America Transactions and Standards Society reviewer.

- Standards review working group member for IEEE P1760, IEEE P1074, IEEE P1175.5.
- Launched URUCON conference in 2017, served as its inaugural conference general chair.
- Member of Conference Technical Program Committees: ANDESCON-2016, ARGENCON-2016, TEMSCON 2017, 2018, 2019.
- Conference Treasurer for 9th Conference of Energy, Power, Instrumentation and Measures, "Renewable Energies for Sustainable Development" (IEEE EPIM 2018)
- Conference Treasurer for International Instrumentation and Measurement Technology Conference (I2MTC 2014).
- Conference Treasurer for 2020 IEEE PES Transmission & Distribution Latin America (T&D LA).
- Member of program committee for conferences held by IEEE in Uruguay (PES-T&D, LASCAS and others).

My service as an IEEE volunteer started after graduation. My work included collaboration across societies, chapters and multiple IEEE initiatives, local IEEE milestone projects, awards, technical and educational activities. I also served as an IEEE liaison to industry and the community.

### Statement

IEEE needs to enforce institutional flexibility to stay aligned with evolving members interests and volunteer's capabilities. The classical "IEEE experience", targeted members dumping high-quality technical information hardly available elsewhere. But today information is almost public, and members are very selective using their time to navigate information.

I believe that networking spaces should be promoted where volunteers can engage members, link industry and academia, facilitating strong interchange across disciplines.

Set the focus in developing activities appropriately tailored to serve different membership profiles is the kind of flexibility I would like to empower at R9, where we are all quite particular. As active volunteer, I am convinced that technology is the path to this new scenario where we all feel comfortable and safe, with total visibility on process and results.

At Region 9 we have the opportunity to demonstrate that is possible to facilitate changes, and move forward in a clear and visible path to keep IEEE as a strong future performing leader organization.

For IEEE Region Delegate-Elect/Director-Elect, 2020-2021  
IEEE Region Delegate/Director, 2022-2023  
Region 9 (Latin America)



**ENRIQUE A. TEJERA**

(Nominated by IEEE Region 9)

Section Manager  
Panama Canal Authority  
Panama  
[www.etejera.com](http://www.etejera.com)

During most of his 40 years as an IEEE member, Enrique has served as a volunteer in the Panama Section, CAPANA Council, Region 9, IEEE Committees, PES and IAS.

In the Panama Section served as Treasurer, Secretary, SSAC, ARC, Vice-Chair, Section Chair, and other committee positions. At the CAPANA Council he held positions as Secretary/Treasurer and Awards Chair.

In Region 9 he served as RSAC, Technical Activities Chair and Awards Chair.

In PES he served as Chapter Chair, R9 Chapter Representative, VP Membership/Chapters Activities and Division VII Director. Since 2014 he serves as Distinguished Lecturer for IAS and PES DL programs.

Throughout the years served in many committees and boards including IEEE-HKN, N&A, MGA, TAB, BoD, Audit, History, SAC.

He is a recipient of numerous awards at the Section and Region level, including outstanding volunteer for the Region, Council and Section and recently recognized with the CAPANA "Freddy Villalta" award.

**IEEE Accomplishments and Activities**

(S'80-M'81-S'83-S'85-M'86-SM'93)

**COMMITTEE/BOARD:** IEEE-HKN Governor Regions 7-10, 2017-2019; TAB N&A, 2018-2019; IEEE History Committee, 2017, 2019; TAB Representative at MGA 2013-2015; Division VII Director, 2010-2011; Audit Committee, 2010-2012; GUOS Committee, 2011-2012; IEEE N&A Committee 2005-2007, 2013-2014.

**REGION:** TA, 2018-2019, 2016-2007; Awards, 2012-2013; RSAC, 2004-2005.

**CAPANA COUNCIL:** Awards, 2016-2017; Treasurer/Secretary, 1994-1995.

**SECTION:** Awards, 2015; SSAC, 2013-2014; Secretary, 1998; Chair, 1992; Vice-Chair, 1991; Treasurer, 1989.

**CHAPTERS:** PES Chapter Chair, 1985, 1997-2000; UTP Student Branch PES Chapter Counselor, 1997-2014; USMA SB Counselor, 1988-1989.

**SOCIETIES:** Editor-in-Chief P&E Magazine Spanish version, 2015-Present; Division VII Director, 2010-2011; PES DL 2014-Present; IAS DL, 2014-2016; PES Chapters VP, 2008; PES Membership and Chapters Activities VP, 2004-2007; R9 PES Chapter North Area Representative, 2000-2003.



**CONFERENCES:** Member of all CONCAPAN OC since 1981, Chair in 1996/2020.

**AWARDS:** CAPANA "Freddy Villata Award" 2018; R9 Meritorious Service, 2017; R9 Eminent Engineer, 2014; CAPANA Outstanding Volunteer, 2013; CAPANA "Ingeniero Eminente", 2006; R9 Theodore W. Hissey Award, 2006; R9 Outstanding Volunteer, 2005; PES R9 Outstanding Engineer, 2001; Panama PES Chapter OEA, 2000; IEEE Panama Section Most Active Member, 1996; PES Chapter Rep Runner-Up for Outstanding Chapter, Panama Chapter in 2002 and 2003; Puerto Rico & Caribbean Chapter, 2000.

## IEEE Accomplishments

### Societies

Established new awards and chapters resources programs during 2004-2008, achieving a constant membership growth. PES and IAS DL. P&E Magazine Chief-in-Editor Spanish version.

### Panama Section

Member/volunteer for 40 years in the Panama Section serving almost all Section positions including Chair 1992. Involved in organization of CONCAPAN in all OC including Chairman 1996 & 2020.

### Region 9

As RSAC, 2004-2005, implemented new ways of managing SAC, created valuable documentation for student activities. Founded the Theodore Hissey Award.

As Technical Activities, a new approach to reach out for Societies activities and improved relations.

As Region Awards Chair implemented new awards. Existing awards were enhanced improving the recognition.

## Statement

**Community.** Bring to the community through our Sections what IEEE offers as a global organization: valuable information, knowledge and innovation.

**Membership.** Work on Membership Issues including satisfaction, retention and growth. Without members IEEE would not exist. It is required then to establish new strategies to maintain our members active and satisfied, to gain new members and to take advantage of all IEEE benefits to achieve these goals.

**Public Relations.** Establish cooperative relations with local entities Academia/ Industry/Private/Government. Everyone involved in technology advancements should be connected with IEEE and use IEEE as their main sources of knowledge and information.

**Growth.** Consolidate Region growth providing solid basis of support and continuity. Revise our Region's ways of doing things, re-invent and innovate ourselves by improving our operations, communications, finances and cooperation between geographical units.

**Strategies.** Align Region 9 strategies and plans to those established at the IEEE major boards taking advantage of new and existing benefits for our members.

**Volunteers.** Form a Regional Committee with committed and experienced volunteers willing to serve and give the best for the Region.

## For IEEE Standards Association President-Elect, 2020 IEEE Standards Association President, 2021-2022



### **JAMES E. MATTHEWS, III**

(Nominated by IEEE Standards Association)

Director, Technical Standards & Standards Policy  
Corning Incorporated  
Corning, New York, USA  
[www.j3matthews.com](http://www.j3matthews.com)

Jim is a graduate of Georgia Institute of Technology (B.E.E./M.S.E.E.) and was a member of Eta Kappa Nu and Tau Beta Pi. Jim worked as a Research Engineer for GTRI (radar systems) then joined Corning at the debut of Fiber Optics. Roles included product & customer engineering, metrology, and network architecture for fiber optics, then optical amplifiers, and optical components, including optical couplers at Corning's European Research Center (France).

Director, external standards for Corning's global products and markets, he has represented Corning in participant and leadership roles for national, regional & global standards groups. Jim has been a member of the ANSI Board since 2001, IEC Vice-President and SMB Chair, and was an ITU-T Rapporteur for over 10 years. Jim has received numerous industry awards for standardization leadership.

Jim brings deep industry experience, ability to manage change, an inclusive style and broad standardization perspective to the IEEE.

### **IEEE Accomplishments and Activities**

(S'77-M'79-S'80-M'81-M'08-M'12-SM'17)

Jim Matthews joined IEEE as a student at Georgia Tech in 1977 and has been active in IEEE for over 28 years. He belongs to the IEEE Standards Association, Communications Society, Photonics Society, Power & Energy Society, and the Technology and Engineering Management Society. Jim began IEEE standardization work in the 1980's in 802 groups and currently manages Corning staff across a range of IEEE SA groups, while working to ensure their use and adoption across Corning. While president of the USNC, Jim worked to facilitate the joint adoption and joint development agreement for IEEE and IEC Standards. Jim is a member of the IEEE SA Board of Governors since 2017 to present.

## Statement

IEEE-SA has many strengths, including a strong legacy of innovation and leadership through standardization. We face a challenging world, including technology convergence, rapid innovation, speed of standardization and access to information. We have grown the IEEE-SA to strengthen its mission of service to humanity, broaden global participation, and include new technologies, while moving faster and more efficiently. We must continue to adapt to the world around us, working with the Institute's Societies and Sections, to address all aspects of technology and related ethical issues through standards.

I bring a broad and diverse experience in standardization to the IEEE, coupled with a deep industry background. I am fortunate to work for a 167-year-old, publicly traded corporation that lives to its high values, operates on collaboration, and puts about 10% of the company's annual revenues back into innovation, reinventing and renewing its products on an ongoing basis. I ask for your help and support to bring these experiences and skills to our work in the IEEE-SA as the SA President-Elect, to help the SA and the Institute to continue to evolve, while pursuing transparency, innovation, broader participation and sustainable finances to deliver the promise of the future through standardization.

## For IEEE Standards Association President-Elect, 2020 IEEE Standards Association President, 2021-2022



### STEPHEN D. DUKES

(Nominated by IEEE Standards Association)

President  
Dreamerse Inc.  
Camano Island, Washington, USA

Stephen Dukes is an international industry executive and visionary with 42 years of business and engineering leadership. Mr. Dukes possesses diverse experience from Fortune 500 companies to start-ups, with additional service on boards of directors and technical advisory boards. Mr. Dukes is President, Dreamerse, a virtual and augmented reality company. Dukes has broad knowledge on developments in emerging technologies and strategies, and advancements in digital transformation. His extensive development and operations experience in manufacturing, strategic planning, design, merger and acquisitions, standards, technology transfer, familiarity with strategic analysis and experience with venture capital make him a valued contributor. Stephen has remained committed to standards development as an active contributor to the IEEE Standards Association for over 10 years. Dukes is an IEEE Life Fellow, member of the American College of Corporate Directors holding an Executive Masters Professional Director Certification, and has a B.S. in Mathematics, University of Washington.

### IEEE Accomplishments and Activities

(S'76-A'79-M'89-SM'91-F'02-LF'19)

#### IEEE Standards Association:

- IEEE-SA Board of Governors (2018-2019)
- IEEE-SA Standards Board (2013-2017, 2019)
- IEEE Technical Innovation and Engagement (2019)
- New Standards Committee Chair (2016-2017), Member (2013-2015, 2018-2019)
- Patent Committee (2018-2019)
- Audit Committee (2013)
- Industry Connections Committee (2014-2019)
- Standards Education Committee (2018)
- Procedures Committee (2016-2017)
- Patent Appeal Committee (2015-2018)
- Representative to IEEE Transportation Electrification Community (2017-2018)

#### IEEE Member and Geographic Activities:

- Fellow Committee (2010-2013, 2017)
- Fellow Strategic Planning Sub-Committee (2018)
- MGA Strategic Planning (2016-2017)
- Member Benefits Portfolio Advisory (2013)

#### IEEE Awards Committees:

- Innovation in Societal Infrastructure Award (2012-2013)
- Masaru Ibuka Award: Past Chair, 2009; Chair (2007-2008); Member (2005-2006)

#### IEEE Technical Activities Board:

- TAB Strategic Planning (2015, 2017-2019)
- IRDS Systems and Architecture Vice Chair (2018-2019)
- TAB Representative to IEEE-SA Standards Board (2013-2016, 2019)

- Digital Reality Initiative Co-Chair (2015-2019)
- IEEE Conferences Finance Committee (2019)
- Transportation Electrification (2012-2015)
- Cloud Computing (2012-2013)
- Smart Grid (2010-2013)
- TAB Awards and Recognition (2011-2012)

#### **IEEE Consumer Electronics Society:**

- President (2010-2012)
- Conferences Vice President (2013-2018)
- First Vice President (2009)
- Board of Governors (2015-2018)
- *IEEE Consumer Electronics Magazine* Senior Editor (2013-2019)
- Fellow Committee (2009-2016)
- Nominations Committee Chair (2013-2014)
- Administrative Committee (2005-2011)

#### **IEEE Broadcast Technology Society:**

- Administrative Committee (2005-2011)
- *IEEE Transactions on Broadcast Technology*, Associate Editor (2005-2008)

#### **Major Accomplishments:**

1. Focused and establish closer relationships between IEEE-SA and ISO/IEC.
2. Established stronger relationship between the IEEE-SA and the IEEE Technical Activities Board.
3. Developed relationships between the IEEE-SA and the IEEE Future Directions Committee to accelerate development resulting in funding of new standards.
4. Led efforts establishing procedures to accelerate new standards within one year for rapidly developing technologies for industry.
5. Chaired Working Group of TRON specifications to P2050-2018 IEEE standard on IoT.

#### **IEEE Conferences:**

Served as Keynote, Industry Liaison Chair, Co-General Chair and/or Industrial Relations:

- ICCE (2011-2018)
- ICCE-Berlin (2011-2017)
- IEEE GEM (2015-2018)
- ICCE-Asia (2016-2018)
- IGIC (2009-2013)
- ICCE-Taiwan (2013-2018)
- GCCE (2012-2018)

## **Statement**

The IEEE Standards Association (SA) is the leading global standards development organization. It is vital that we create new relationships between industry, IEEE Technical Activities, IEEE-SA activities, and external technical associations and collaborate with them to develop new standards. Because standards are essential to industry compliance and the interoperability of rapidly developing technologies, we must shorten the time between technical innovation and standardization. To achieve this, we must strengthen communication and collaboration between TA and SA and consider methods for SA to provide additional financial support for new TA society standards, helping IEEE-SA expand its central role in the expansion of new technologies. New market dynamics emphasize openness, crowd-sourced innovation, and the ability to fail quickly. IEEE-SA is well-positioned to establish itself as a leader in open source standards and should make this a priority. Finally, it is important we make the best use of the skills and contributions of the extraordinary network of professionals who comprise the IEEE-SA membership and that we provide them with platforms and processes that are attractive, user-friendly, highly functional, and will not only support our own membership, but will establish IEEE-SA as the global SDO of choice now and in the future.

## For IEEE Standards Association Board of Governors Member-at-Large, 2020-2021



### ANDREW F. MYLES

(Nominated by IEEE Standards Association)

Manager, Enterprise Networking Standards  
Cisco Systems, Inc.  
Sydney, NSW, Australia

<https://www.linkedin.com/in/andrew-myles/>

Dr Myles, has had a diverse technology career, having worked in corporate labs, university labs, management consulting and a technology start-up. He has a global perspective, having lived or worked in the US, Europe and Asia. He lives in Australia but is the ultimate “global worker”.

Dr Myles has been employed by Cisco since 2001, initially with a focus on IEEE 802.11 WG standardisation (as contributor and Chair/Editor of various groups) and Wi-Fi Alliance certification (as contributor and Board Chair/Director), but more recently his responsibilities have expanded to cover a range of enterprise related standards development and governance activities, within Cisco and externally. Over the years, he has participated in standards work in IEEE-SA, ISO/IEC, ETSI, IETF, ANSI, 3GPP and Wi-Fi Alliance.

Dr Myles is passionate about Wi-Fi standards allowing “anyone, anytime, anyplace” to set up a network that has continued to work “just well enough” since 1999.

### IEEE Accomplishments and Activities

(S’91-M’95)

Dr Myles is a Member of the IEEE Standards Association and Communications Society.

Dr Myles has participated in both standards development and governance activities in the IEEE Standards Association, including:

- IEEE 802.11 WG
  - Technical contributor
  - Editor, IEEE 802.11h (2001-03)
  - Chair, IEEE 802.11 PDED ad hoc (2016-17)
  - Chair, IEEE 802.11 Coexistence SC (2017-)
- IEEE 802.19 WG
  - Technical contributor
- IEEE 802
  - Chair, IEEE 802 JTC1 SC (2009-)

- IEEE-SA
  - Board of Governors (2016-17), during which time he promoted improved transparency of governance processes
  - Standards Board (2015, 2018, 2019)
  - NesCom (2015)
  - RevCom (2018-19)
  - AudCom (2019)
  - ICCom (2018)
  - Member of Procom ad hoc on Dominance and Interest Groups (2017)
  - Member of Procom ad hoc on SCC18 (2017)
  - Member of IEEE-SA International ad hoc (2016-17)
  - Member of CAG Corporate Member Value Proposition ad hoc (2018)
  - Member of Standards Board ad hoc on the Phenomenon of Dominance (2018)
  - Chair of Standards Board ad hoc Dominance (Education) (2019)
  - Chair of Standards Board Dominance Oversight Committee (2018-2019)

Dr Myles was awarded the IEEE Standards Association International Award in 2013 for his "*contribution to establishing the IEEE-SA as a world-class leader in standardization*", and particularly for his work on the relationship between IEEE-SA and ISO/IEC JTC1/SC6.

Earlier in his career, Dr Myles regularly attended IEEE academic conferences and contributed papers to IEEE journals and conferences, including the *IEEE Journal on Selected Areas of Communications* and *IEEE Micro*.

### Statement

Having experienced standards development and governance in multiple SDOs over 30 years, Dr Myles strongly believes the key to good standards that live up to the IEEE's vision of "benefiting humanity" is openness and transparency.

The IEEE-SA embraces these concepts by its support for OpenStand. However, OpenStand has proven to be insufficient because, too often, it is remarkably difficult to find out about many IEEE-SA activities beyond a bland PAR; progress, working documents, or even rules are often practically impossible to access.

It is Dr Myles' vision to transition IEEE-SA towards "radical openness", so that anyone, globally, can access everything about any standards development (and governance) at any time. Radical openness means all potential stakeholders can know about, and thus have a real opportunity to influence IEEE-SA standards, with ease! The benefit will be standards that are more likely to benefit all humanity, and not just those "in the know"!

## For IEEE Standards Association Board of Governors Member-at-Large, 2020-2021



### MASAYUKI ARIYOSHI

(Nominated by IEEE Standards Association)

Senior Principal Researcher & Head of Invisible Sensing  
Research Team  
Data Science Research Laboratories  
NEC Corporation  
Tokyo, Japan

Dr. Masayuki Ariyoshi has been in research and development in wireless communications for over 25 years. He received BE and ME degrees in Electrical Engineering, and PhD degree in Information and Computer Science, all from Keio University, Japan. Currently, he is Senior Principal Researcher at NEC Corporation, where he leads the Invisible Sensing Research Team. His research include projects funded by Ministry of Internal Affairs and Communications, Japan, and one within European 7th Framework Programme.

Ariyoshi participated and contributed in standards development in IEEE DySPAN Standards Committee, 802.11, 802.15, Asia Pacific Telecommunity (APT) Wireless Group (AWG), among others. He also chaired IEEE 1900.4 WG in DySPAN-SC, and Short Range Devices Task Group in AWG.

His other IEEE activities include serving on IEEE Standards Association (SA) CAG, Standards Board, AudCom, RevCom, and ICom. Outside of IEEE, he is Senior Member of IEICE, and Chair of IEICE Technical Committee on Smart Radio.

### IEEE Accomplishments and Activities

(S'93-M'95)

Dr. Ariyoshi has been involved in standards development activities in the field of wireless communications. He has participated in IEEE 1900.1, 1900.4, and 1900.6 Working Groups (WG) in Dynamic Spectrum Access Networks (DySPAN) Standards Committee (formerly organized as SCC41) since 2008. His major contributions were made in IEEE 1900.4 WG on Architectural Building Blocks Enabling Network-Device Distributed Decision Making for Optimized Radio Resource Usage in Heterogeneous Wireless Access Networks as Designated Representative for NEC, where he gave more than 60 contributions. Since 2010, he has served as Chair of IEEE 1900.4 WG and led to the publication of two standards, IEEE Standard 1900.4a, and 1900.4.1. He also contributed in developing a standard on spectrum resource management in IEEE 802.15 WG, which became IEEE Standard 802.15.4s.



Dr. Ariyoshi has also been active in IEEE Standards Association activities since 2010. He served as a member of the IEEE-SA Corporate Advisory Group (CAG) in 2018-2019, Standards Board (SB) in 2011-2013, 2015-2017 and 2019, Standards Review Committee (RevCom) in 2010-2017, Industry Connections Committee (ICCom) in 2015-2017, and Audit Committee (AudCom) in 2019.

In IEEE publications, he served as Series Editor in the topic of Wireless and Radio Communication for *IEEE Communication Standards Magazine* since the first edition was published in March 2017 to 2018.

Dr. Ariyoshi received honourable awards for his accomplishment in standardisation: the IEEE-SA Working Group Chair Award in 2011 and 2013; the IEEE Communications Society Standards Board Award in 2011; the ITU Association of Japan, Encouragement Award in ICT Accomplishment Field in 2012; and the Information and Communication Technology Award, the TTC Chairman's Award in 2019. For technical accomplishment, he also received the 1st Prize of IEEE GCCE 2014 Excellent Paper Award, Wireless Innovation Forum 2014 Best Paper Award, and IEICE ComEx Best Letter Award in 2016.

### Statement

IEEE Standards Association is recognised as the world's leading Standards Development Organization (SDO). We aim at persistent provision of market relevant standardization environment. Considering recent trends in international standards, I think further nurturing of the IEEE-SA is needed. It is important to expand global relevance of the IEEE-SA. I also think that IEEE standards could give more values in the market, by strengthen relationship with industry, governmental agencies, and other SDOs.

As a member of IEEE Standards Association Board of Governors, I will strive to promote the IEEE-SA with my experience and connections made through my activities inside and outside of the IEEE-SA including European projects and Asia Pacific Telecommunity.

## For IEEE Standards Association Board of Governors Member-at-Large, 2020-2021



### YU YUAN

(Nominated by IEEE Standards Association)

Founder & CEO

Senses Global Corporation

Beijing, China

<http://www.linkedin.com/in/DrYuYuan>

Dr. Yu Yuan is a veteran researcher, inventor, practitioner and technical leader in the areas of Consumer Technology, Transportation, and Internet of Things. He founded Senses Global Corporation, a multinational technology company specializing in Virtual Reality, Augmented Reality, and Human Augmentation. Prior to this he served as the president of CATE Global, a think tank focusing on bringing world-class expertise to clients and projects all over the world. Prior to that he worked for IBM Research as a research scientist and was a key contributor to IBM's Cell Broadband Engine, Smarter Planet and IoT initiative. He has been a passionate volunteer in various leadership positions at IEEE and other professional communities. His outstanding service in IEEE standards activities at different levels (working group, standards committee, and IEEE SA governance) has been widely appreciated by standards developers and IEEE SA corporate members. He has a PhD in Computer Science, Tsinghua University.

### IEEE Accomplishments and Activities (M'04-SM'10)

#### IEEE Standards Association:

- Board of Governors (BOG) (2018-2019)
- Standards Board (SASB) (2012-2017)
- SCC Coordinator (2015-2016)
- Administrative Committee (AdCom) (2015-2016)
- Industry Connections Committee (ICCom) (2012-2017, 2019)
- New Standards Committee (NesCom) (2012-2014)
- Standards Review Committee (RevCom) (2016-2017, 2019)
- Patent Committee (PatCom) (2017)
- Chair, SCC42 Transportation (2014-2018)

#### IEEE Technical Activities Board:

- Committee on Standards (2018-2019)
- Co-Chair, Digital Reality Initiative (2018)
- Chair, Digital Senses Initiative (2015-2017)
- Steering Committee, Brain Initiative (2015-2019)
- Standards Committee, Blockchain Initiative (2018-2019)
- Standards Chair, Transportation Electrification Initiative (2014)
- Steering Committee, Transportation Electrification Initiative (2014)

#### IEEE Consumer Electronics Society:

- Chair, Standards Committee (CES/SC) (2015-2020)
- Vice Chair, Standards Committee (CES/SC) (2014)
- Secretary, Blockchain Standards Committee (CES/BSC) (2018-2019)

- Chair, VR/AR Working Group (P2048 Standards) (2016-2019)
- Chair, China Operations (2015-2016)
- Director, China Conferences (2013-2014)
- Chair, Vehicular Technology (2011-2014)
- Associate Editor, *IEEE Consumer Electronics Magazine* (2011-2019)
- Steering Committee, *IEEE Transactions on Intelligent Vehicles* (2015-2018)

**IEEE Photonics Society:**

- Standards Committee (PHO/SC) (2019)

**IEEE Transportation Electrification Community:**

- Secretary (2015-2016)
- Standards Chair (2015-2016)
- Steering Committee (2015-2019)

**Major Accomplishments:**

1. Drove the significant growth of IEEE Consumer Electronics Society's standards activities from zero to the top 1 among all the IEEE societies in terms of the number of active entity projects.
2. Initiated the IEEE Consumer Electronics Society Blockchain Standards Committee (CES/BSC) and led its rapid growth. Two thirds of IEEE's blockchain standards projects are now sponsored by this committee, which was launched just half a year ago.
3. Founded the IEEE VR/AR Working Group and made it the world's largest force dedicated to VR/AR standardization by attracting participants from more than 200 companies and institutions worldwide.
4. Established strategic partnerships or collaborations between IEEE-SA and several important organizations (e.g. ISO/TC 204, C-ITS, TRB, APEC) in the area of transportation.
5. Helped IEEE-SA recruit dozens of corporate members from both giant companies and SMBs.

**Statement**

Being an IEEE member for 15 years and an IEEE-SA member for 9 years, I believe IEEE-SA deserves a significant growth and a much stronger global influence. As a candidate from China, the largest developing country, I look forward to contributing deeply and extensively to IEEE-SA and the global standards community. I have been working on and will continue to be committed to helping IEEE-SA:

- Increase win-win collaborations with IEEE Technical Activities, Societies and Councils;
- Enhance the coverage and support for small and medium-sized businesses in the industry;
- Improve public awareness and influence in growth markets and developing countries;
- Foster new standards activities for emerging technologies and industry trends;
- Develop partnerships and mutual benefits with other important organizations worldwide;
- Grow membership and participation from various sectors and verticals globally.

It will be my greatest honor and pleasure to be of service to you. Thanks a lot for your kind consideration.

## For IEEE Technical Activities Vice President-Elect, 2020 IEEE Technical Activities Vice President, 2021



### MACIEJ J. OGORZALEK

(Nominated by IEEE Technical Activities)

Professor and Department Head  
Department of Information Technologies  
Jagiellonian University  
Krakow, Poland  
<http://www.doit.fais.uj.edu.pl/maciej-ogorzalek>

MACIEJ J. OGORZALEK is Professor and Head of the Department of Information Technologies, Jagiellonian University, Krakow, Poland.

He held visiting positions in Denmark, Switzerland, Germany, Spain, US, Japan, Hong Kong. In 2005 he was Hertie Foundation guest professor at The Goethe University Frankfurt, Germany. 2006-2009 he was the Chair of Bio-signals and Systems, Hong Kong Polytechnic University under the Distinguished Scholars Scheme. In the fall 2018 he was guest professor at Waseda University, Tokyo and in spring 2019 distinguished guest professor at Kyoto University, Japan.

Author of over 400 technical papers published in journals and conference proceedings, and the book *Chaos and Complexity in Nonlinear Electronic Circuits* (World Scientific).

He has served as Associate Editor for several international scientific journals. *Plenary or Keynote speaker at over 60 major international conferences and workshops.* In 2012 elected Member of Academia Europaea and in 2016, Member of the Polish Academy of Sciences.

### IEEE Accomplishments and Activities

(M'88-SM'93-F'97)

- 2018-2019 Member of the TAB Management Committee
- 2019-2019 Member of TAB N&A Committee
- 2018-2019 Member of the Awards Board N&A Committee
- 2018-2019 Member of IEEE Education Activities Board
- 2018-2019 Chairman of TAB Ad-Hoc Committee on Global Society Interaction
- 2016-2017 Division 1 Director - Member of the IEEE Board of Directors
- 2016 Member of the IEEE New Initiatives Committee
- 2013-2014 Vice-Chair of the IEEE Recognitions Council
- 2011-2014 Member of the Fellow Evaluation Committee
- 2012-2013 Chairman of the Prize Paper/Scholarship Award Committee
- 2012-2013 Member of the Member Engagement & Life Cycle Committee
- 2010-2013 Poland Section Chairman
- 2008 CASS President

- Recipient CASS Meritorious Service Award 2012
- Member of the Editorial Board *Proceedings of the IEEE* 2004-2009
- Editor-in-Chief of *IEEE Circuits and Systems Magazine* 2004-2007,
- Associate Editor for the *IEEE Transactions on Circuits and Systems Part I*, 1993-1995 and 1999-2001,
- CASS Distinguished Lecturer 2004-2005
- Recipient of the IEEE-CAS Golden Jubilee Award and the CASS Guillemin-Cauer Award 2002

#### Achievements:

- As Editor-in-Chief, brought the *IEEE CAS Magazine* to second position among the IEEE Magazines with 5YearIF=3.34
- During my CASS ExCom involvement and presidency new actions for students connected with ExCom meetings. eg. in Region 9 (Argentina and Brazil). Creation of new conference in Region 9 - Latin American Symposium on Circuits and Systems. Support for activities in Region 10.
- As Poland Section Chairman I strongly supported chapter activities and student branches – with special initiatives for student activities – Region 8 Student Branch Congress that was held in Krakow/Poland in 2014. During my term, several new chapters were established (SSCS and TMC in 2013). Successful application for the First Milestone to be brought to my country – the ENIGMA Milestone ceremony held in 2014. “Czocharlski Milestone” is under way.
- As Division 1 Director - created collegial decision making and cross-OU activities (eg. organising conference between CASS and EDS).

### Statement

Society membership is declining. Our activities should attract interested people on all scales - Technical activities should be a point of attraction for local communities, not only for members. Consider “Membership+” ie. Service for members – we should **concentrate more on member engagement**.

Approach groups of people interested in IEEE and technical activities around the globe – we have to adopt the principle **“think globally and act locally”**, consider a low-cost tier of membership. Global Society Interaction is happening already this year.

We should strengthen collaboration between boards: TAB – EAB – courses offered for industry people, continuous education, Dataport, Resource Center, ILN; TAB and PSPB aligned operation and close work with MGA.

New emerging topics like geosciences, agriculture, chemistry or economics bringing fantastic new applications for facilitating and improving our lives should be brought into the scope of TAB. Also environmental and humanitarian impacts of engineer’s work. Electronic waste generation and management, environment-aware design, participatory design, life cycle engineering, compassionate business and sustainability come to the picture – TAB has a great role to play here.

I have very good understanding of the member needs – I have the passion, communication and managerial skills and collegial spirit to make things happen.

## For IEEE Technical Activities Vice President-Elect, 2020 IEEE Technical Activities Vice President, 2021



### ROGER U. FUJII

(Nominated by IEEE Technical Activities)

President  
Fujii Systems, Inc – Critical Systems Development  
Consulting  
Rancho Palos Verdes, California, USA  
[www.fujii.us.com](http://www.fujii.us.com)

Fujii is a 30+ year volunteer. Served in IEEE leadership positions including Board of Directors (Division VIII, TAB, Foundation, IEEE-USA) and Computer Society President. Served on IEEE/TAB committees - Future of Publications, Financial Transparency, Fellows, Nominations & Appointments, Industry Engagement, Standards Development, new organizational model and Finance. Published papers/books, magazine editor, developed standards, managed conferences, and led TAB/Computer Society strategic planning.

Past Xiamen University guest professor and lectured at UCLA and Sacramento State University.

Was Vice-President/General Manager (retired) at Northrop Grumman leading a research engineering division (\$1.086B revenue) developing satellite/aircraft communications systems (F22/F35).

Fujii is an IEEE Fellow, IEEE Golden Core member and graduate of UC Berkeley (BS/MS, thesis "Optimizing Algorithm for Pattern Recognition"), MBA certifications from Harvard, UCLA and Darden. Served on National Academy of Sciences National Research Council (Space Shuttle). Awards include Chinese Institute of Engineers Executive of the Year and Daedalian Award for Systems Excellence – Airborne Networks.

### IEEE Accomplishments and Activities

(M'88-SM'04-F'09-LF'17)

My IEEE involvement has provided experience/knowledge of the complexities/issues of IEEE/TAB/Society operations and finance.

My accomplishments are:

- **Finance:** Led the IEEE initiative to produce financial transparency of society revenues/expenses and consideration to convert IEEE services to a Shared Service Center organizational model as a method of controlling IEEE indirect expenses.
- **International:** Established the process to include IEEE standards into the International Standards Organization portfolio. Helped developed ISO/IEC/IEEE Std 12207 – Software Life Cycle Processes.
- **Publications:** Established the IEEE (formerly Computer Society's) Wiley Book Program.
- **Membership Development:** Included the Northrop Grumman employees into the IEEE corporate affiliate program.
- **Strategic Planning:** Developed TAB (2019) and Computer Society (SP7) strategic plan and goals.
- **Standards Development:** Developed (working group chair) IEEE standard 1012, Systems, Software and Hardware Verification and Validation. This standard is used in critical systems development (NASA manned space, life sustaining medical devices, etc.).
- **Future Technologies:** Led development of Computer Society's Smart

Grid vision document.

My IEEE activities include:

#### IEEE Activities

- Division VIII Director (IEEE Board of Directors)
- IEEE Foundation Director
- IEEE-USA Board of Directors
- Future of Publications
- Finance Committee – Indirect Allocation Rule
- Nominations & Appointments
- Fellows
- EBCC
- Ethics/Member Conduct
- Roles/Responsibilities (ED/President/BOD)
- Industry Engagement
- Information Technology (IT) Review

#### TAB Activities

- Finance
- Financial Transparency (chair)
- Standards
- President's Forum
- Division Director Forum
- Conflict Resolution (chair)

#### IEEE Computer Society

- President
- 1<sup>st</sup> Vice President
- Vice President – Standards
- Board of Governors
- Press Operations (chair)
- Karlsson Award (chair)
- EIC Selection

#### Others

- COMPSAC General Conference Chair
- ISO/IEC/JTC1/SC7 Head USA Delegation
- *IEEE Software Magazine* Guest Editor
- IEEE Sections Congress - Amsterdam
- *Encyclopedia of Software Engineering Book* (chapter author)
- *Systems and Software Engineering Collection* (chapter author)
- IEEE Outstanding Contribution – Computer Society Strategic Plan
- IEEE Meritorious Service – USA Chair ISO/IEC/JTC1/SC7

### Statement

We are in an important time of change that challenges our products and services requiring us to be proactive and nimble. I will support IEEE Core Values and Goals. My major focus will be:

- *Thought Leadership in Future Technology*: Fund new technology directions to lead the world in impactful technology visions and solutions.
- *Streamline Bureaucracy*: Modify our policies and procedures to change the rules so that we empower our leaders to be more proactive and nimble.
- *New Revenue Generation Products*: Adapt our technology content to address changing member demographics and adopt faster distribution channels.
- *Control Indirect/Infrastructure Expenses*: Develop financial transparency and improve efficiency of indirect/infrastructure services (implement a shared service center type model) to allow societies/councils to pay for only those services they use.

I plan to work together with all members of TAB to create the change that we need. Additional details at [www.fujii.us.com](http://www.fujii.us.com).

For IEEE-USA President-Elect, 2020  
IEEE-USA President, 2021



**KATHERINE J. DUNCAN**

(Nominated by IEEE-USA)

Visiting Research Fellow

Dept. of Electrical Engineering and Computer Science

U.S. Military Academy West Point

West Point, New York, USA

Katherine J. Duncan is an expert in the development of novel nanomaterials for next-generation communication systems. She received her masters of engineering in electrical engineering with an Optics Certificate (minor) from Stevens Institute of Technology and doctorate degree from New Jersey Institute of Technology. She is a Visiting Research Fellow in the Department of Electrical Engineering and Computer Science at the U.S. Military Academy West Point. She joined the U.S. Army CERDEC in 2009, where she serves as a Senior Research Scientist. Dr. Duncan has demonstrated executive leadership experience that spans industry, academia and government.

Dr. Duncan is an IEEE Senior Member and a member of IEEE HKN. She served as Region 2 Director, on the IEEE-USA Board of Directors, MGA Finance Committee and many other IEEE volunteer capacities. Her efforts are consistently collaborative in nature often resulting in membership engagement opportunities, operational improvements and reductions in operational costs.

**IEEE Accomplishments and Activities**

(S'93-A'99-S'99-A'06-M'08-SM'12)

**IEEE BOARDS/COMMITTEES:**

- IEEE Board of Directors, Region 2 Director/Delegate (2017-2018); Region 2 Director-Elect/Delegate-Elect (2015-2016)
- IEEE-USA Board of Directors (2017-2018)
- IEEE MGA FinCom (2017-2018)
- IEEE-USA WIE Liaison (2016, 2019)
- IEEE Ad Hoc on Strategic Planning (2016)
- IEEE Ad Hoc on Continuous Improvement (2017)
- IEEE Board of Directors Coordinator IEEE Ethics Committee (2017-2018)

**REGION 2:**

- WIE Coordinator (2013-2015)
- Region Vitality Coordinator (2015)

**SECTIONS:**

- North Jersey: Member (2007-2010); WIE Chair (2009)
- Membership Development Chair (2008-2010)
- Baltimore: Secretary (2012); Treasurer (2013); Vice-Chair (2014)

**SOCIETY/COUNCIL:**

- IEEE AP-S (NTDC) (2015-present)
- IEEE Radio and Wireless Symposium (2015-present) Reviewer



IEEE-HKN/HKN:

- 2018: Professional Member

CONFERENCES:

- Chair, IEEE WIE Summit USA East 2015
- Treasurer, IEEE 2018 R2 YP/WIE RISE
- Committee member numerous IEEE conferences

OTHERS:

- ABET Evaluator
- IEEE WIE, IEEE MTTS, IEEE APS, IoT Community Memberships
- IEEE Nanotechnology, RFID Council

Dr. Duncan is known for her collaborative engagement style. Her efforts, while Region Director, focused on providing member and volunteer benefit through practical and achievable initiatives.

- Developed outline of MGA's major initiatives, identified overlaps, points of collaboration and alignment between IEEE OUs, resulting in operationalization of MGA's strategic Plan, specifically: dissemination, alignment, performance, measurement, and stimulation.
- Primary proponent supporting creation of a venue for major board collaboration. Facilitated a venue where leaders of major Boards converge to discuss their OU activities and collaborate, reinforcing partnerships between major OUs, and emphasizing joint activities.
- Led creation of Region 2 annual WIE conference IEEE WIE Summit USA East 2015, an event continuously growing WIE membership.
- Created ad hoc committee on membership development, initiated a regional YP/WIE conference (RISE) with short planning and implementation cycles that's replicated successfully.
- Reinstated Region 2 awards program. Working with Regions 2 and 3 coordinators, rewrote the manual, employed MGA to open a candidate portal.

## Statement

In 2017 the IEEE-USA board revised the strategic plan after reflection on successful activities versus less beneficial to the membership. The decline in U.S. membership since the arrival of the new millennium, has concentrated the attention of IEEE-USA to ensure career vitality through public policy advocacy for the engineer and development of career and professional services. I will work to assist a reversal of the negative membership trend by leading the charge on meeting the needs of our membership while operating in a resource constrained environment.

We must engage students and Young Professionals, while reengaging Mid-Career Professionals and creating useful products and services for all our volunteers and USA members. We must seek to employ the resource of wisdom and knowledge available within the ranks of our senior membership for mentoring our future leaders.

As the IEEE-USA President-Elect (2020) and IEEE-USA President (2021), I would expand region activities developed for students and young professionals to enhance USA membership and continue to develop career and professional services to promote lifelong career and organizational vitality. IEEE-USA must continue assisting members by advocating for the membership and adopting public policies that serve the needs of USA members and the profession at large.

## For IEEE-USA President-Elect, 2020 IEEE-USA President, 2021



### **BRENDAN B. GODFREY**

(Nominated by IEEE-USA)

Senior Executive Service (Retired)  
United States Air Force  
Arlington, Virginia, USA; and  
Visiting Research Scientist  
Lawrence Berkeley National Laboratory  
Berkeley, California, USA  
<http://BrendanGodfrey.org>

Brendan Godfrey is a Lawrence Berkeley National Laboratory visiting scientist. Previously, he held technology leadership positions, overseeing as many as 1500 people and budgets as large as \$500M. Positions included AF Office of Scientific Research director, Brooks AFB deputy director, AF Research Laboratory director of plans, Armstrong Laboratory director, Phillips Laboratory advanced weapons director, and Weapons Laboratory chief scientist. Earlier, he was a Mission Research Corporation vice-president, Los Alamos National Laboratory group leader, and Weapons Laboratory staff scientist. He served on numerous professional panels, including the National Academies' Air Force Studies Board, Texas Governor's Scientific Advisory Committee, and University of New Mexico and University of Texas at San Antonio advisory committees. Dr. Godfrey is widely recognized for contributions to intense charged particle beams, high power microwave sources, and computational plasma research. He is a Fellow of the IEEE and of the APS, and holds a PhD from Princeton University.

### **IEEE Accomplishments and Activities**

(M'76-SM'83-F'00-LF'15)

Dr. Godfrey has been an active member of IEEE since 1976, and served on the Plasma Science and Applications (PSAC) Executive Committee (ExCom) almost continuously since 1994. While Chairperson, he instituted changes to broaden the range of candidates seeking election to PSAC ExCom, expanded member participation in ExCom activities, and negotiated a long-term agreement with IEEE-MCE to support conference management. He also contributed to the leadership of the Nuclear and Plasma Sciences Society (NPSS), serving three terms on its Administrative Committee (AdCom). He has helped organize several plasma conferences.

Since 2011, Dr. Godfrey has contributed to the IEEE-USA Research and Development Policy Committee (R&D PC), serving as Vice-Chair and Chair. Among his efforts as Chair were to increase involvement in R&D PC

by younger members and to expand advocacy activities beyond preparing position statements. Seeing the need for a position on artificial intelligence, he organized and served as co-chair of the Artificial Intelligence Policy Committee. As an R&D PC member, he drafted several position statements and letters, all of which were adopted by IEEE-USA.

Dr. Godfrey was elected 2018-2019 IEEE-USA Vice-President for Government Relations, serving on its Board of Directors and leading the Government Relations Council (GRC). In this capacity, he expanded the GRC to include representatives of all U.S. Regions, conducted the first face-to-face GRC retreats to improve strategic planning, and cleared the substantial backlog of unreleased position statements. GRC initiatives underway include increasing volunteer involvement in position statement advocacy, establishing a policy committee on STEM diversity, revitalizing a few policy committees, and improving the tracking of draft position statements. To enhance the visibility of IEEE-USA, he has given a number of talks about its activities at IEEE conferences and management meetings and has represented IEEE-USA during Congressional Visits Day on several occasions.

## Statement

As President-Elect and then President of IEEE-USA, I would enhance the government relations program; increase the visibility, accessibility, and reputation of IEEE-USA; and build upon the membership initiatives of the current IEEE-USA President and President-Elect.

Government relations can provide an increasingly effective voice for IEEE-USA members in DC, including progress on R&D funding, STEM diversity, digital privacy, and H-1B visa reform. IEEE-USA must mobilize members for advocacy, create avenues for greater feedback from members, recruit more volunteers (especially Young Professionals), and offer advocacy training at the Section level.

Surveys indicate that many IEEE U.S. members have only a vague knowledge of IEEE-USA. Enhancing its visibility will increase utilization of IEEE-USA's valuable career services and expand its public policy successes. Volunteers are the lifeblood of IEEE-USA, and more volunteers would result from greater visibility. Moreover, IEEE-USA can contribute effectively to the IEEE membership value proposition only if its accomplishments are known not only to members but also to potential members.

Finally, as a member of the IEEE Board, I shall work with the Region Directors to identify and address issues important to U.S. members, explore alternative IEEE membership and financial models for a changing environment, and promote openness and transparency.

For IEEE Division Delegate, 2020-2021  
Division I (CASS, EDS, SSCS)



**ALFRED "AL" E. DUNLOP**

(Nominated by IEEE Assembly)

Retired  
Pilot Knob, New York, USA

Dr. Dunlop received his BEE from the University of Delaware, MSEE and PhD from Carnegie-Mellon University in 1975, 1977 and 1979 respectively. He holds 14 patents in the areas of circuit design, system initialization and algorithms.

Since 2001, he has been president of Crossbow Consulting, LLC where he has worked for clients on topics including circuit design, system architecture, system startup and Electronic Design Automation (EDA).

He was founder and VP of Engineering at a startup 2002.

Dr. Dunlop worked at Bell Laboratories 25 years where he held research and development positions. He was responsible for the IC layout tools in the mid 1980s. He later built clock recovery circuits for packet systems. In research, he held the position of Director of Design Principles Research and later Director of Optical Data Systems Research before retiring in 2001.

**IEEE Accomplishments and Activities**

(S'71-M'76-M'80-SM'87-F'90-LF'19)

**COMMITTEES/BOARDS:** Technical Activities Board, Member, 2005-2007; TAB Periodicals Packages Committee, Chair, 2007-2008; TAB/PSPB Products & Services Committee, Member, 2007-2008; Transnational Committee, Member, 2007; TAB-Ethics and Conflict Resolution Committee, Member, 2007; TAB-Finance Committee, Member, 2008-2009; TAB-Management Committee (TMC), Member, 2010-2012; TMC-Business Plan Ad Hoc, Chair, 2010-2012; TMC-Structure Ad Hoc, Member, 2011; IEEE-Members Dues, Member, 2011-2012; IEEE Board of Directors: Division I Director-Elect, 2019, Division I Director, 2020-2021.

**SECTION/CHAPTER:** Schenectady Section, Member, since 2003.

**SOCIETY/COUNCIL: Circuits and Systems Society (CAS):** *IEEE Transactions on Computer Aided Design of Circuits and Systems (TCAD)*, Editor, 1990-1992; AdCom, 1988-1990; Board of Governors, 1997-1999; Vice President Regions 1-6, 2000; Board of Governors, 2003-2005. **Council on Electronic Design Automation:** President (Founding President), 2005-2007; Head Nominations and Appointments Committee, 2008-2009; Awards Committee,

Kaufman Committee, Nominations and Appointments Committee, Conference Committee, 2010-2011.

**CONFERENCES:** International Conference on Computer Aided Design, Program Committee, 1986-1991. Hardware-Software Co-Design Workshop, Co-General Chair, 1992. Design Automation Conference: Program Committee, 1986-1989; Technical Program Chair, 1990-1991; General Chair (over 16000 badges printed), 1993; Executive Committee, 1990-1994, 2003-2005, 2010-2012.

I have worked with others to:

1. Co-found the Council on Electronic Design Automation. I served as its first president.
2. Chair the Periodicals Package Committee, monitoring on-line publications revenue and distribution of revenue in as fair a way as possible.
3. Close down wasteful internal committees and to eliminate superfluous meetings.
4. Serve as General Chair for conferences spanning sizes from 50 to almost 4000 attendees and as Editor-in-Chief, Associate Editor and Special Issue Editor for Transactions.
5. Served numerous Society/Council roles and used the knowledge gained to oversee Societies and Councils that are heading into financial difficulties, and create the processes and document the process for the creation of new Societies and Councils.

### Statement

IEEE needs knowledgeable and principled reasoning at the Assembly and Board of Directors level. I will work with other members of the board to think strategically with value and integrity in order to benefit members and technical communities related to electrical engineering and related fields.

IEEE needs to be the central organization for all topics related to electrical engineering and associated disciplines.

As such, we need to:

1. review the way we charge and expense (both internally and externally) to deliver value to the technical community we serve,
2. find new ways to attract people to read and use our scholarly papers,
3. nurture researchers and practitioners in their careers,
4. be the place to get papers published,
5. and ultimately make membership desirable for at least half the people who work or study topics in electrical engineering and related fields. I think we need to change the current membership model to make this work. To not do so holds IEEE back and makes it seem unfriendly.

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