2020 IEEE Annual Election

Candidate Biographies and Statements

IEEE

Advancing Technology for Humanity

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. 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 2020, elections are only being conducted in the following Divisions and Regions: Divisions I, III, V, VII and IX for Delegate-Elect/Director-Elect and Regions 2, 4, 6, 8 and 10 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 2020. Elections are also being conducted in all Regions for IEEE Standards Association (IEEE-SA) Board of Governors Members-at-Large.

   NOTE: The 2021 IEEE President-Elect will become IEEE President in 2022.

5. **Deadline for Ballot Receipt: Only ballots received by 12 Noon, Eastern Time USA (16:00 UTC) on 1 October 2020 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 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.

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:

The 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 9.25 and this Policy 9.26 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.

Table of Contents

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.

Please read the voting instructions that appear on pages 2-3.

For IEEE President-Elect, 2021
IEEE President, 2022

SAIFUR RAHMAN
(Nominated by Petition)

Joseph R. Loring Professor of Electrical and Computer
 Engineering
Virginia Tech
Arlington, Virginia, USA
www.srahman.org

Professor Saifur Rahman is the founding director of the Advanced Research Institute at Virginia Tech where he is the Joseph R. Loring professor of electrical and computer engineering. He is a Life Fellow of the IEEE and an IEEE Millennium Medal winner. He was the President of the IEEE Power and Energy Society (PES) for 2018 and 2019. He was the chair of IEEE Publications Board and a member of the IEEE Board of Directors in 2006. He was the founding editor-in-chief of the *IEEE Electrifications Magazine* and the *IEEE Transactions on Sustainable Energy*. He served as the chair of the US National Science Foundation Advisory Committee for International Science and Engineering from 2010 to 2013. He is a Distinguished Lecturer for the IEEE PES, and has lectured on smart grid, energy efficient buildings, renewable energy, demand response and distributed generation topics in over 30 countries on all six continents.

IEEE Accomplishments and Activities
(S'74-M'78-SM'83-F'98-LF'15)

IEEE Accomplishments – Under my leadership, the Power & Energy Society started the IEEE PES Corporate Engagement Program, designed for the employer to pay the employee's IEEE membership dues, and in return getting some benefits from PES. This engages the organization more closely with IEEE. Additionally, this program allows the employer to recognize higher performing engineers or faculty members. I signed the first Corporate Membership MoU under this program in November 2017. PES has so far signed 10 such MoUs with power companies and universities in China, India and the US. Simultaneously I worked on engaging with members at the grassroots level. In order to provide a direct link between our chapter leaders, who represent us locally, and the society governing board, I have set up PES Chapters' Councils in China, India, Africa and Latin America with chapter chairs as the core members. These councils have empowered local leaders to initiate local

programs. Furthermore, in order to provide lifelong learning opportunities for IEEE members, I led the efforts to set up the PES University. This "university" offers tutorials, webinars, plain-talk courses – some online, some face-to-face – in the field of interest of PES.

IEEE Activities – President, IEEE Power & Energy Society (2018-2019); President-elect, IEEE PES (2016-2017); EIC, *IEEE Electrification Magazine* (2014-2015); Division VII Representative, IEEE Society on Social Implications of Technology (2014-2019); Vice President, PES Publications (2012-2013); EIC, *IEEE Transactions on Sustainable Energy* (2011-2012); Chair, TAB/PSPB Products and Services Committee (2007-2010); Chair, IEEE PSPB N&A Committee (2009); Vice President, IEEE PSPB and Member, IEEE Board of Directors (2006); Chair, TAB Periodicals Committee and Vice Chair, IEEE Publication Services and Products Board (2004-2005); Member, Editorial Board, *Proceedings of the IEEE* (2004-2009); Vice President, PES Publications (2001-2003); Member, Educational Activities Board (2002); Member, Sensors Council (2000); Member, IEEE-USA Energy Policy Committee (1998-2020).

Statement

As IEEE President my focus will be to make IEEE more global and more relevant to technology professionals all over the world, by the following actions:

- **Demonstration of relevance.** Through proactive outreach and demonstrating benefits of IEEE membership, with unparalleled networking opportunities at over 2000 international IEEE conferences (face-to-face or virtual), access to the finest technological literature, massive resources for up-skilling, innovative collaboration facilities with like-minded colleagues worldwide, we can powerfully demonstrate IEEE's relevance to current and prospective members.

- **Deeper engagement with technologists at grassroots level.** To provide direct links between the chapter leadership (who represent us locally) and society governing board, I set up highly effective IEEE Power & Energy Society Chapters' Councils in China, India, Africa and Latin America that organize enormously successful local events and meaningful outreach to local industry. I shall mirror these pioneering developments throughout IEEE.

- **Enhanced lifelong learning opportunities.** I helped establish the immensely popular online PES University. This "university" offers invaluable tutorials, webinars, plain-talk courses in Power & Energy Society's Field of Interest. I propose to launch an IEEE University encompassing all IEEE's

fields of interest to support career development of practicing engineers.

- Giving life to our motto, **Advancing Technology for Humanity.** The global events of recent months have shown that technologists play a critical role for humanity. Let us employ the matchless facilities IEEE offers, to address the post-COVID 'new normal' supporting remote working, international collaboration, continuing professional development, ambitious technology development, promote renewable energy, expedite Sustainability, and build a resilient future.

Video

Recorded candidate video message is available on IEEE.tv at https://ieeetv.ieee.org/event-showcase/2020-candidates and in the electronic ballot during balloting period at www.ieee.org/elections.

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S. K. RAMESH
(Nominated by IEEE Board of Directors)

Director AIMS[2] Program,
Professor of Electrical and Computer Engineering
California State University (CSU), Northridge
Northridge, California, USA
https://www.rameshsk.com

S. K. Ramesh is a renowned engineering educator with over three decades of leadership experience as a dean, department chair, and faculty member. The programs he established serve industry practitioners in high wage, high demand fields, including renewable energy, assistive technology, and advanced manufacturing. As 2016-17 Vice President of Educational Activities, he championed collaboration, diversity, and inclusive excellence, through innovative programs like IEEE Learning Network (ILN).

Ramesh is an IEEE Fellow recognized for *"contributions to entrepreneurship in engineering education"*, and founding Director of CSU Northridge's internationally recognized AIMS[2] program that mentors and supports underrepresented minorities in engineering. His many recognitions include the John Guarrera Engineering Educator of the Year, William Johnson International award for *"leadership and contributions to the profession"*, and Region 6 Community Service award. Ramesh has served on the Boards of IEEE and ABET, leading volunteers and staff with shared strategic goals, measurable outcomes, and transparent fiscal leadership.

IEEE Accomplishments and Activities
(S'79-S'84-M'85-S'85-M'86-SM'93-F'15)

Ramesh has served IEEE in several leadership roles for over 38 years. His efforts have strengthened collaboration and member engagement, resulting in innovative programs that span the gamut from continuing education to pre-university education, and products and services that support members across the continuum of their careers:

- Restructured IEEE Educational Activities to attract a **diverse pool of volunteer leaders, emphasize accountability**, and the pursuit of shared goals with measurable outcomes (2016-17)

- Co-championed the **IEEE Learning Network (ILN)** in collaboration with

all OU's as a one-stop shop for all IEEE continuing education products and services (launched 2019)

- Championed and implemented the **Try Engineering Summer Camps** and **Try Engineering Together** e-mentoring program (2017)

- Enhanced **EPICS in IEEE** program with an MOU with Purdue University and launched the EPICS in IEEE India Pilot to promote project based learning and faculty professional development (2016-18)

- Expanded **IEEE-HKN** globally to serve all 10 Regions in IEEE, and increased industry support (2016)

- Promoted and Improved the **quality of technical education worldwide** through leadership on the ABET Board of Directors

IEEE Activities (select leadership positions)

IEEE Board of Directors (2016-17)

Vice-President Educational Activities, (EAB Chair – 2016-17, Past – 2018-19)

President, IEEE-HKN, 2016 (Elect – 2015, Past – 2017)

Chair, IEEE-HKN Development Committee (2018-present)

Fellows Committee (2018)

Publication Services and Products Board (2020)

Treasurer and Trustee, IEEE-HKN Board of Governors, (2012-14)

IEEE Awards Board, (2010-13)

ABET Board of Directors, (2013-15, 2019-present), and Director Engineering Area Delegation, (2019-present)

ABET Board of Delegates, (2015-19)

Associate Editor-in-Chief IEEE e-Learning Library Editorial Board, (2012-13)

IEEE Educational Activities Board, (Pre-University Education, Chair, 2014-15, Awards and Recognition, Chair, 2010-13)

IEEE Exhibits Program Strategic Summit, Chair (2015)

Region 6 Central Area, Chair, (2001-04), Student Activities, Chair, (1994-95, 1998-2000)

Sacramento Section, Chair (1992-93)

Photonics Society, Sacramento Chapter, Chair, (1989-93, 2004-07)

Student Branch Counselor, CSU Sacramento (1990-2006).

Statement

IEEE's mission of "Advancing Technology for Humanity" has never been more relevant. Today, we are witnessing an extraordinary test of the human spirit as we combat the global COVID-19 pandemic. The entire world is turning to virtual modalities to protect lives. Everything that we know in the world of today will be different when we emerge from this crisis.

How do we serve our members in these uncertain times, and adapt our structures to support IEEE's mission aligned priorities in the future? Personally speaking, my IEEE experiences of almost four decades have taught me some timeless values: To be **I**nclusive, **C**ollaborative, **A**ccountable, **R**esilient, and **E**thical. Simply put, **"I CARE"**.

If elected, you can count on me to:

Grow IEEE globally and empower volunteers to improve their local communities by promoting a culture of transparency, and inclusion

Offer members customized access to continuing education programs, and industry relevant workshops

Increase the value of products and services with prudent fiscal leadership

Engage members and support their ongoing professional and career needs

Empower and strengthen our Student Chapters, YP, WIE, and Entrepreneurship affinity groups

Energize IEEE members working at the forefront of grand challenges for engineering facing humanity

Our members are the heart and soul of IEEE. They create enormous value for IEEE through their contributions. IEEE has the power to hold our profession together and support engineers worldwide. I humbly request your vote and support to work together, to create an IEEE "Of the Members", "By the Members" and "For the Members".

Video

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K. J. RAY LIU
(Nominated by IEEE Board of Directors)

Distinguished University Professor and
Christine Kim Eminent Professor of Information
 Technology
University of Maryland
College Park, Maryland, USA
https://www.rayliu.org/

I received Ph.D. from UCLA in 1990. My research contributions encompass broad areas of information and communications technology with recent focus on wireless AI for indoor positioning and wireless sensing. I have trained over sixty-eight doctoral/postdoctoral students, of which ten have become IEEE Fellow.

I am the recipient of two IEEE Technical Field Awards: 2021 IEEE Fourier Award for Signal Processing and 2016 IEEE Leon K. Kirchmayer Graduate Teaching Award, IEEE Signal Processing Society 2009 Technical Achievement Award, 2014 Society Award (highest award bestowed by SPS) for "*influential technical contributions and profound leadership impact*", and over a dozen best paper/invention awards. Recognized by Web of Science as a Highly Cited Researcher, I am a Fellow of IEEE, AAAS, and U.S. National Academy of Inventors.

As the founder of Origin Wireless, my invention won 2017 CEATEC Grand Prix Award and CES 2020 Innovation Award, with products available over 150 countries worldwide.

IEEE Accomplishments and Activities
(S'86-M'90-SM'93-F'03)

IEEE Board/Committees

- IEEE Vice President – Technical Activities, 2019 (Elect 2018; Past 2020)
- Co-Chair, New Engagement Model and Opportunities, 2019
- IEEE Board of Directors as Division IX Director, 2016-17 (Elect 2015)
- Chair, TAB New Business Models and Services Ad Hoc Committee, 2016

- Fellow Committee, 2015-16
- Founder of FinTrans Group, 2013-16
- Lead, IEEE DataPort, 2013-16
- TAB Finance Committee Member, 2014-16
- Periodical Committee, 2009
- Transactions Committee, 2006-08
- Magazine Committee, 2003-05

Signal Processing Society
- Past President, 2014
- President, 2012-13
- President-Elect, 2010-11
- Vice President – Publications, 2006-08
- Board of Governors, 2004-05
- Editor-in-Chief, *IEEE Signal Processing Magazine*, 2003-05
- Chair, Multimedia Signal Processing Technical Committee, 1999-2001
- Transactions on Mobile Computing Steering, 2007-08
- Transactions on Multimedia Steering, 2007-08
- General Chair, IEEE International Conference on Acoustics, Speech, and Signal Processing (ICASSP) (2007)

I start the financial transparency movement in 2013 with the support of over 100+ society/council presidents to demand transparency in finance and decision making so that one can understand the real financial impact to make informed decisions. It is now fully recognized by many that it is critically important to IEEE.

I proposed and created the IEEE DataPort to offer data repository services as a new benefit and value proposition for our members. It supports open science and reproducible research by hosting data that are citable and useful for our community. The number of users and data have grown exponentially to over 400,000+ users in just over one year.

I also proposed and co-led the development of the IEEE app as IEEE's mobile strategy and infrastructure. The IEEE app is now available as "Your Global Gateway to IEEE". It is for you to discover IEEE and its quality assets. The app can be personalized allowing you to see, read, and choose how you want to engage and connect with all things in IEEE, as well as network globally.

Statement

Over the last 35 years I have volunteered time to make IEEE a better place. I understand the issues you are facing in your professional lives, whether getting started after graduation, excelling/struggling in academia or industry, or prospering in the "Gig economy" as an entrepreneur. I am running to represent YOU to make IEEE more relevant and useful for all of us!

As a non-profit organization, our key thrusts are promotion of technical excellence, thought leadership, and facilitation of collaboration and networking, rather than amassing profits. I pledge to:

Provide greater value to you through new products and services

- As the creator of IEEE DataPort, pursue more opportunities in data and analytics for open science and reproducible research
- Develop more continuing education/training on practical content relevant to your work, especially for industry members and young professionals
- Devise mobile strategy and infrastructure to engage members and other users with a simple click, to offer persistent availability and value

Improve Readiness for Crisis Management and Reduce Overhead

- Develop rapid global crisis response mechanism/readiness and strengthen virtual conferencing services/capability as a new emerging trend
- Lower IEEE overhead in its business model to relieve burden for members
- Ensure transparency in all decision making processes

Build our strength in diversity, for all of us worldwide

- Develop global strategies to offset political and geographic walls against equal participation
- Provide personalization of services to accommodate different needs of our diverse constituents
- Strive for fair participation and leadership from diverse groups and regions, especially those under-represented and women

Video

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FRANCO MALOBERTI
(Nominated by IEEE Division I)

Emeritus Professor
Department of Industrial Engineering and Informatics
School of Engineering
Pavia University
Pavia, Italy
http://ims.unipv.it/~franco/

Franco Maloberti is an Emeritus Professor at the University of Pavia, Italy. He received the Laurea Degree in Physics *summa cum laude* from the University of Parma, Italy, and Dr. Honoris Causa from the Inaoe, Puebla, Mexico. He was a Visiting Professor at ETH-PEL, Zurich, and EPFL-LEG, Lausanne. He was the TI/J. Kilby Chair at TAMU and the Microelectronic Chair at UT Dallas. He is an Honorary Professor, University of Macau, China SAR. Franco Maloberti's research interests are in the design and analysis of data converters, analog interfaces, and sensor systems. He has written more than 600 publications, eight books and holds 38 patents. He is the Chairman of The Academic Committee of the AMSV Key Lab. Macau, China.

He received the 1999 IEEE CAS Society Meritorious Service Award, the 2000 CAS Society Golden Jubilee Medal, the IEEE Millennium Medal, and the 2013 CAS Society Mac Van Valkenburg Award.

IEEE Accomplishments and Activities
(A'84-SM'87-F'96-LF'15)

- IEEE Committee/Societies/Chapter Activities
- IEEE Circuits and Systems Society: Vice President, Region 8, 1995-1997
- IEEE Sensor Council: CASS Representative, 2001
- IEEE Sensor Council: President-Elect 2001; President 2002-2003; Past-President 2004-2005
- IEEE Circuits and Systems Society: Board of Governors, 2003-2005
- IEEE TAB/PSPB Products & Services Committee: Member, 2005, 2006-2008
- IEEE Circuits and Systems Society: Vice President - Publications, 2007-2008
- IEEE Circuits and Systems Society: President-Elect 2014-2015; President 2016-2017; Past President 2018-2019
- IEEE TAB: Member, 2002-2003, and 2016-2017
- IEEE Fellow Committee: Member, 2016-2017
- IEEE CAS North Italy Chapter: Chair, 2016

- IEEE Solid-State Circuits Society: CAS Representative, 2018-2019
- IEEE CAS Society: Distinguished Lecturer, 2012-2013
- IEEE SSC Society: Distinguished Lecturer, 2009-2010

Journals
- *IEEE Transaction on Circuits and Systems II*, Associate Editor, 1998-1999

Conferences
- IEEE Sensors: General Chair, 2002
- IEEE Sensors: Technical Program Chair, 2003
- IEEE International Symposium on Circuits and Systems (ISCAS): General Co-Chair, 2018
- IEEE Conference on PhD Research in Microelectronics and Electronics (Prime): Founder, and Chair of the Steering Committee, 2005-2020
- IEEE European Solid-State Circuits Conference (ESSCIRC): Steering Committee, 1994-1998
- IEEE International Conference on Electronics Circuits and Systems (ICECS): Steering Committee, 1990-2016
- IEEE Custom Integrated Circuits Conference (CICC): Technical Committee, 2006-2007

Accomplishments
- Led creation of "*IEEE Transaction on Biomedical Circuits and Systems*."
- Co-author and book coordinator of "*A Short History of Circuits and Systems*."
- Created the CAS Industrial Lecturer Program, 2017.
- Created and Editor of the Book Series "*Tutorial in Circuits and Systems: Low Power Circuit Design Using Advanced CMOS Technology*", nine books published since 2017.

Statement

The responsibility of a Division Director as part of the Board of Directors is to serve the members and to progress the organization for optimally providing learning opportunities, delivering knowledge with technical publications and communication tools, and gathering members to share technical information through conferences and meetings. The goals are particularly important for the increasing social role of technology. I am aware that members are our customers, and they must see products and services that compensate costs and voluntary efforts. They remain loyal affiliates by considerations of supply and demand. For members in countries with low income, an affordable membership fee is crucial.

If elected, I will establish communication channels with members and will focus on the implementation of initiatives responding to the member's desires. I will work for harmonizing the professional interests of Societies and Councils of Division I, and I will work on bringing values to our members in different regions and professional segments. I will favor a shaping of the IEEE fees to match the average income in different countries better.

SAMAR K. SAHA, PHD
(Nominated by Petition)

Chief Scientist
Prospicient Devices,
Milpitas, California, USA; and
Adjunct Faculty, Electrical Engineering Department
Santa Clara University
Santa Clara, California, USA
https://samarksaha.com

Samar Saha received PhD in Physics from Gauhati University and MS in Engineering Management from Stanford University. Currently, he is the Chief Scientist at Prospicient Devices and an Adjunct Professor in the Electrical Engineering (EE) department, Santa Clara University, California.

Since 1984, he worked in various technical and management positions at National Semiconductor, LSI Logic, Texas Instruments, Philips Semiconductors, Silicon Storage Technology, Synopsys, DSM Solutions, Silterra USA, and SuVolta. In academia, he was an EE faculty member at Southern Illinois University, Carbondale; Auburn University; the University of Nevada, Las Vegas; and the University of Colorado, Colorado Springs.

He authored over 100 research papers; two books, entitled, *FinFET Devices for VLSI Circuits and Systems*, Taylor & Francis (2020) and *Compact Models for Integrated Circuit Design: Conventional Transistors and Beyond*, Taylor & Francis (2015); one book chapter on Technology Computer Aided Design; and holds 12 US patents. He is an IEEE Fellow.

IEEE Accomplishments and Activities
(M'91-SM'99-F'19)

Committees/Board: Chair, TAB Educational-Activities Ad-hoc Committee (2018); TAB Presidents Forum (2016-2017); Periodicals Committee (PerCom) (2013-2014); Conference Publications Committee (2012).

Electron Devices Society (EDS): Executive Committee: Senior Past President (2020); Junior Past-President (2018-2019); President (2016-2017); President-Elect (2014-2015); Elected member, Board-of-Governors (2009-2014); Publications Vice-President (2009-2013). **Committee Chair:** J.J. Ebers Awards (2020-); Nominations and Election (2018-2019); Celebrated Member Recognition (2016-2017); Young Professional Career Award (2014-2015); George Smith Award (2009-2013); Paul Rappaport Award (2009-2013); Compact Modeling Technical Committee (2005-2008).

Region/Chapters: EDS Santa Clara Valley-San Francisco Chapter: Chair (2008); Vice-chair (2007); Treasurer (2006-2007); Executive/Advisory committee (2003-present). Region 6 sub-committee for EDS Regions &

Chapters – North America/West: Chair (2008); Vice-chair (2007).

Conferences: Co-General chair, the IEEE 4th Electron Devices Technology and Manufacturing (EDTM) Conference (2020); Co-founder/Co-General chair, IEEE International Flexible Electronics Conference (IFETC) 2018; Co-founder/General chair, 1st CAD-TFT International Conference (2008); IFETC Steering Committee (2019-present); EDTM Steering Committee (2017-present); Meetings Committee (2005-2006).

Publications: Guest-editor, *Journal of Electron Devices Society* (J-EDS) Special Section, Vol. 7, August 2019; Guest-editor, *IEEE Transactions on Electron Devices* (T-ED) Special Issue (SI), Vol. 60, February 2013; Head Guest-editor, *T-ED SI*, Vol. 56, September 2009; Vol. 53, September 2006; Founding Editor-In-Chief, *QuestEDS* (2007-present); Editor, *EDS Newsletter*, Regions 5 & 6 (2008).

Others: Chair, Steering Committee, *Journal of Micro-Electro-Mechanical Systems* (2013); EDS Representative, Council of Electronic Design Automation, CEDA (2005-2008); Editorial Steering Committee, *IEEE Transactions on Semiconductor Manufacturing* (2006-2008).

Major Accomplishments:
- Launched 1st IEEE EDTM Conference, Toyama, Japan (2017); cofounded and launched 1st IEEE IFETC, Ottawa, Canada (2018); committed and signed 100% financial sponsorship of European Solid-State Device Research Conference (2018);
- Established 1st EDS CENTER OF EXCELLENCE (2017);
- Established EDS's first Five-year Strategic Planning (2017);
- Established five annual undergraduate fellowships award and one annual Lester Eastman award (2019);
- Launched the *IEEE Journal of Photovoltaics* (2011); the *IEEE Journal of Electron Devices Society* (2013).

Statement

As Division I Delegate/Director, I will execute my commitment to the IEEE and Division I Societies/Councils (S/Cs), and nurture the volunteers to grow and contribute to IEEE to their fullest extent at what they do the best. With the help and cooperation of volunteers, I am committed to grow the IEEE Division-I S/Cs in all key areas of endeavors including:

- Promote global interdisciplinary engineering education and research by closely working with the Division-I S/Cs as well as IEEE/non-IEEE entities;
- Facilitate life-long career support and resources for members by ensuring interdisciplinary education programs: advance members' interests by establishing services in support of their professional growth; encourage inter-society cooperation within Division I through synergistic actions, collaborative events, and joint activities; and create member benefits to establish strong relationship with industry and practicing engineers;
- Increase value of Division I membership by adding benefits, features, and access opportunities in all IEEE Regions globally and in emerging economies and facilitate career advancement for young professionals and women-in-engineering in their technical field-of-interest;
- Increase visibility of Division-I membership and strengthen global opportunities.

RAKESH KUMAR
(Nominated by IEEE Division I)

President & CEO
Technology Connexions Inc.
Poway, California, USA
www.rk4DivDir.tcxinc.com

Dr. Rakesh Kumar is a semiconductor industry veteran with a distinguished technical industry career, is an entrepreneur, and an educator. He is the founder of two start-ups and made many technical and leadership contributions at Cadence, Unisys, and Motorola. He developed leading semiconductor technologies. As VP&GM at Cadence he built a successful Silicon Technology services business championing the integration of silicon, design and EDA in chip and system design. He enabled the Fabless industry revolution and authored *"Fabless Semiconductor Implementation"*. He is an IEEE Life Fellow, was inducted into the Technical Activities Hall of Honor. His many IEEE contributions including Chair of the Roadmaps Committee, Co-Chair of DataPort, past President of SSCS, TA Chair for 3 Sections Congress events. He teaches Entrepreneurship at UC San Diego.

He received the Ph.D. M.S. and B.S. diplomas in EE in 1974, 1971 and 1969 respectively, and an Executive "MBA" from UCSD in 1989.

IEEE Accomplishments and Activities
(S'70-M'74-SM'91-F'08-LF'13)

Dr. Kumar has served in a wide range of leadership roles. His efforts have led to enhancements within Technical Activities as well as increased globalization and increased cooperation across various OU's. He was inducted into the TAB Hall of Honor. He fosters cross-functional cooperation and innovation using his technical know how and leadership skills.

Recent Leadership Roles:
- Chair of IEEE Technology Roadmaps Committee
- Co-Chair of DataPort
- Strategy Adviser and Magazine Board Chair, Solid-State Circuits Society
- Sections Congress – 2020 Advisory panel, 2017, 2014, 2011 TA Chair
- HKN Board of Governors - Regions 5-6
- Board of Governors – SSCS, SSIT

Technical Activities Leadership:
- TMC 2016-17
- Strategic Planning 2014-16
- Vice-Chair Entrepreneurship 2015-16
- Chair Society Turnaround Committee (SSIT) 2012-14
- MGA Geographic Unit Operations Support Committee, TAB Representative 2011
- Ethics and Conflict Resolution 2010

- TAB FinCom 2007-09

Society Leadership (SSCS)
- President 2012-13; Vice-President 2010-11; Treasurer 2005-10; CICC Representative to SSCS AdCom 2000-04; Nominations Chair 2014-15; Chair, Magazine Advisory Board, 2014-present.
- As SSCS President/President-elect, promoted outreach for global presence
  - Facilitated formation of 12 new Chapters (15% growth in 2 years)
  - Led programs that transformed declining Society membership trend to positive annual growth (~2.5%) in 2 years
  - Promoted volunteer recognition - Fellow nominations increased by 80%
  - Enhanced educational activities - >15 tutorials/short courses available online, 7 Distinguished Lecture "Tours" in Regions 8-10 (participated in 3)
  - Launched successful SSCS Webinar program
  - Distinguished Lectures on behalf of SSCS and EDS
  - Supported GOLD/YP and WIE activities
  - Championed/promoted member value
- Spear-headed approval and launched *IEEE Solid-State Circuits Magazine* focused on historical, educational and newsworthy content (2005-06). Tutorials Editor for five years.
- Used Leadership skills that drove the formulation/approval of cross-functional publications:
  - *IEEE RFIC Virtual Journal* – Fostered cooperation between SSC/CAS/MTT/ED/AP Societies
  - JXCDC – *IEEE Journal on Exploratory Computational Solid-State Computational Devices and Circuits* (sponsors SSCS/Magnetics/NanoTech C/CAS/Computer; technical co-sponsors EDS/C Superconductivity/CEDA)

Statement

While Division I Societies/Councils are the cornerstone of the semiconductor revolution they could use transformational leadership to work smarter and attract more industry Practitioners and millennials, who can't live without our technologies but are not swarming to careers in our disciplines. My extensive Technical, Leadership, Educator and Entrepreneurship experience and team-builder reputation are an ideal mix for this. Through cooperation we can create inter-disciplinary and educational solutions that meet our member needs and attract a larger community to our ranks. If elected, I will:

- Encourage interaction, communication and collaboration among the Division I Societies and Councils.
- I will enthusiastically support the development of new inter-disciplinary programs, services and products with more applications based, and educational content. I will also actively explore technical applications of technology to solve social and humanitarian issues which are a high priority for women engineering students - thus improving diversity of our membership.
- Represent interests of the S/Cs at the Board. I will support current efforts for providing increased value to their members and will promote transparency in governance and finances.

KHALED B. LETAIEF
(Nominated by IEEE Division III)

New Bright Professor of Engineering and Chair Professor
Electronic and Computer Engineering Department
The Hong Kong University of Science and Technology (HKUST)
Clear Water Bay, Hong Kong
http://eekhaled.people.ust.hk

Dr. Letaief received his Ph.D. from Purdue University, USA. He is Chair Professor at HKUST where he held key management positions, including Dean of Engineering. Under his leadership, HKUST dazzled in rankings, rising to #14 worldwide according to QS World University Rankings.

He is recognized for his distinguished accomplishments across IEEE, most notably as ComSoc President. He served as *IEEE Transactions on Wireless Communications* founding Editor-in-Chief and in many IEEE leadership positions.

He is an internationally-acclaimed scientist with over 640 papers, 13 US patents, and 6 contributions to IEEE standards. He is IEEE Fellow, HKIE Fellow, and ISI highly-cited researcher with over 35,700 citations and an 86 h-index. He received other distinctions including 2019 IEEE ComSoc/IT Society Joint Paper Award; 2016 IEEE Marconi Prize Award in Wireless Communications; 2011 IEEE ComSoc Harold Sobol Award; 2010 Purdue University Outstanding Electrical and Computer Engineer Award; and over 16 IEEE Best Paper Awards.

IEEE Accomplishments and Activities
(S'85-M'86-M'90-SM'97-F'03)

Over 30 years, I had the privilege to demonstrate my commitment and leadership by enthusiastically serving IEEE members in many different positions at the Institute and Society levels. Serving as ComSoc President was particularly rewarding and allowed me to enhance ComSoc's products and services, including publications, conferences, and online content.

Some of my recent accomplishments, as ComSoc President, include significantly improving Society's finances (reaching US$2.9 Million surplus in 2019 from a budget deficit in 2017); revamping ComSoc's website, reversing membership decline (particularly students who witnessed a 62% increase); and introducing novel programs targeting students, young professionals, women, and practitioners. My *major* activities include:

IEEE COMMITTEES/BOARDS:
- TAB Periodicals Committee Member, 2020 and 2013-14
- Technical Activities Board (TAB) Member, 2018-19
- Publications Services and Products Board (PSPB) Member-at-Large, 2012-14
- Fellow Strategic Planning Committee Member, 2014

- Fellow Committee Member, 2013-14
- PSPB Strategic Planning Committee Member, 2014
- PSPB Nominations and Appointments Committee Member, 2012
- TAB/PSPB Products and Services Committee Member, 2009-11
- *IEEE Access* Editorial Board, 2013-15.

IEEE COMMUNICATIONS SOCIETY:
- President, 2018-19
- Vice-President Technical Activities, 2014-15
- Vice-President Conferences, 2010-11
- Director of Journals, 2016-17
- Treasurer, 2012-13
- Fellow Evaluation Committee, 2009-11
- Board of Governors Elected Member-at-Large, 2006-08
- Chair: IEEE WCNC Steering Committee (2013-18); Technical Activities Council (2014-15); Finance Committee (2012-13); Conference Council (2010-11); Wireless Communications Technical Committee (2003-04).

CONFERENCES:
- General Chair/Co-Chair: IEEE GLOBECOM'23, Malaysia (2023); IEEE WCMC'13, Italy (2013); IEEE ICCC'12, China (2012); IEEE TTM'11, Hong Kong (2011); IEEE WCNC'07, Hong Kong (2007); IEEE WCNS Symposium, USA (2004)
- Executive Vice-Chair, IEEE GLOBECOM'18, UAE, 2018
- Vice-General Chair, IEEE ICC'10, South Africa, 2010
- Co-TPC, IEEE ICC'08, China, 2008.

EDITORIALS:
- Editor, *Proceedings of the IEEE*, 2020
- Editor-at-Large, *IEEE Transactions on Wireless Communications*, 2007-10
- Founding Editor-in-Chief, *IEEE Transactions on Wireless Communications*, 2002-06
- Editor-in-Chief, *IEEE Journal Selected Areas on Communications-Wireless Series*, 2001-02
- Editor, *IEEE Transactions on Communications*, 1997-02
- Technical Editor, *IEEE Communications Magazine*, 1997-2005.

Statement

Serving as ComSoc President, on TAB, and PSPB has been a unique experience that enriched me with an intimate knowledge of IEEE operations and structure. It also allowed me to properly understand IEEE challenges and priorities.

If elected, it will be my honor to continue serving IEEE by exploiting my diverse experience on IEEE Boards and Committees. I will use my extensive management and leadership experience to represent you and sustain IEEE as a major resource supporting members' needs throughout the world, while bringing unique and broad perspectives to the IEEE Board of Directors.

As I demonstrated throughout my 30 years volunteer service, I commit to take on my Division Director role very seriously through active engagement and by ensuring that we focus on rejuvenating and improving business performance and member's benefits, while developing value-added programs and products for a stronger and healthier IEEE. Of particular importance to me is *reinforcing IEEE global leadership; fostering the growth in society's membership; and boosting the role of women, practitioners, students, and young professionals in all IEEE activities.*

ANDRZEJ JAJSZCZYK
(Nominated by IEEE Division III)

Professor
AGH University of Science and Technology
Krakow, Poland
http://www.kt.agh.edu.pl/en/user/148

Andrzej Jajszczyk is a Professor at the AGH University of Science and Technology in Krakow, Poland. He received his Ph.D. from Poznan University of Technology. He spent several years as a visiting scientist in Australia, Canada, and France. He is the author or co-author of 12 books and over 300 technical papers, as well as 19 patents in the area of telecommunications networking. He has been a consultant to industry, telecommunications operators, and government agencies in Australia, Canada, China, France, Germany, India, Poland, and the USA.

He is an IEEE Fellow, and was elected to the Polish Academy of Sciences and Academia Europaea. Andrzej Jajszczyk is Vice-President of the Kyoto-Krakow Foundation, fostering cultural and technical relations between Asia and Poland. He served as the founding Director of the National Science Centre, a Polish research funding agency. He is a member of the Scientific Council of the European Research Council (ERC).

IEEE Accomplishments and Activities
(M'91-SM'95-F'99)

In 30 years of IEEE volunteer activities I served in a wide range of roles. I was the Editor-in-Chief of *IEEE Communications Magazine* and Associate Editor-in-Chief of *CIC/IEEE China Communications*. I served on editorial boards of other renowned journals, including *IEEE Transactions on Communications*. I was active organizing numerous IEEE conferences. I held several positions in IEEE Communications Society, such as Director of the EMEA region, Director of Magazines, and Vice President – Technical Activities.

- While serving as the *IEEE Communications Magazine* Editor-in-Chief, I introduced considerable changes within the editorial board and in the style requirements of *ComMag*. At the end of my term, *ComMag* reached the top position of the impact factor list among all world publications in the area of telecommunications. I revolutionized the publication process by introducing on-line procedures. I also founded the on-line version of *ComMag*, published along with its printed version.

- I was the founding editor of the *Global Communications Newsletter*. I organized a network of regional correspondents covering every continent.

- During my term as the Director of Magazines of the IEEE Communications Society, three print magazines led the impact factor ranking list. *IEEE Network* was ranked first, *IEEE Wireless Communications* was ranked second, and *IEEE Communications Magazine* was ranked third. I consolidated the standing of IEEE Communications Surveys and Tutorials.

I played an essential role in creating two new IEEE conferences, namely: IEEE Workshop on IP-oriented Operations & Management IPOM (conferences were held in Poland, Taiwan, USA, China, Ireland, and Greece) and IEEE International Workshop on Broadband Switching Systems BSS (this workshop, after merging with two other conferences, and changing the name to *IEEE High Performance Switching and Routing*, became the most important annual event in telecommunications switching). I was a General Co-Chair of IEEE ICC 2018, held in Kansas City, MO, USA.

Statement

The IEEE now operates in a challenging global environment plagued by pandemic and climate change. The reshaping of the telecommunications sector and deep transformation of the industry as well as the changing models of university teaching and research have set new requirements on our professional organization.

If elected, I will work to diversify, improve and enhance services offered by the IEEE to its members, including dissemination of technical information, educational services via the web, industry-oriented programs, and those related to standardization. I will use my solid experiences and leadership to confirm the leading role of our conferences, journals, and magazines by improving the reviewing quality and fairness as well as publication timeliness. I will continue my predecessors' work to curtail cost and keep the budget in check to benefit the volunteers. I will also work to facilitate mutual exchange among IEEE Societies, while respecting their differences and addressing their specific needs.

I believe that my experiences in both the communications field and IEEE activities will help me to effectively contribute to the success of our professional organization.

ROBERT S. FISH
(Nominated by IEEE Division III)

Computer Science Department
Princeton University
Princeton, New Jersey, USA
www.robfish.net/IEEE/Rob_Fish_for_Division_III_
Director.htm

Robert S. Fish is an IEEE Fellow and a faculty member in the Computer Science Department of Princeton University. He is also President of NETovations, LLC, a consulting company focused on innovation for communications and networking technologies. From 2007 to 2010, he was Chief Product Officer and Senior VP at Mformation, Inc. a startup company specializing in carrier software for mobile device management. From 1997 to 2007, Rob was Vice President and Managing Director of Panasonic US R&D laboratories working on embedding networking into consumer devices. Prior to this, he was Executive Director, Multimedia Communications Research at Bellcore/Telcordia where he pioneered informal video communications and presence mechanisms. He started his career at Bell Laboratories. Besides his many publications, Dr. Fish has been awarded 17 patents. He received his Ph.D. from Stanford University.

Awards include the Multimedia Communications Technical Committee Distinguished Service Award and the IEEE SA's Standards Medallion.

IEEE Accomplishments and Activities
(M'93-SM'07-F'19)

Rob is a long term ComSoc and IEEE volunteer. In ComSoc, Rob was recently VP of Industry and Standards and prior to that, VP of Standards, and a MaL on the BoG for two terms. He is a member of the IEEE BoD, Vice-chair of the IEEE Industry Engagement Committee, and a member of the IEEE Strategy and Alignment committee. He was appointed by current IEEE President Fukuda to the IEEE ad-hoc on membership dues.

As Vice President of ComSoc and currently, as President of the IEEE Standards Association, he pioneered bringing research and applied engineering together to benefit both. Industry consortia have come to ComSoc for standards development, and hybrid research/industry events like the 5G Forum are offered globally. Under his leadership the number of standards projects in ComSoc rose by almost an order of magnitude as industrial and academic

researchers from Asia, Europe, and the Americas worked together developing and governing ComSoc Standards Working Groups and Standards Committees.

In conferences, Dr. Fish worked to balance ComSoc events so that all ComSoc members, researchers and practitioners, benefited from membership and participation. He chaired the GLOBECOM and ICC Management and Strategy Committee (GIMS), reforming the site selection process to make it geographically fair and transparent. He was co-founder and steering committee chair of the Consumer Communications and Networking Conference (IEEE-CCNC) and served on the founding Steering Committee of the Conference on Standards for Communications and Networking (IEEE-CSCN). He founded the IEEE ComFutures event, which brings high quality communications and networking knowledge to the interested public.

In IEEE Technical Activities, Rob served on TAB Conferences Committee and created and chaired the TA Committee on Standards. In Publications, he helped create *Communications Standards Magazine*, co-edited a series in *IEEE Communications Magazine* on IEEE Standards in Communications and Networking, and is working to create an IEEE preprint service.

Statement

It is an honor to be nominated for Division III Director. Communications and networking are at the core of our profession, and I welcome the challenge of representing our interests and expertise in the larger IEEE. IEEE faces a rapidly changing environment over the next few years and I suggest facing issues boldly and aggressively. Open Access for publications, Virtual conferences, and membership retention and growth amidst a volatile global economic climate present both challenges and opportunities for IEEE. We need to view these changes positively, and respond rapidly with approaches that focus on creating new products, structural innovation within IEEE, and creating positive value (while containing costs) for current and new members.

Having previously served on the IEEE BoD, I know the challenges that the Division III Director will face. If elected, I will emphasize a full innovation lifecycle approach to IEEE's activities: addressing important emerging technologies, fostering high quality research, and providing leadership in translating emerging technologies into standards, open source, and educational activities that benefit IEEE membership, industry and academia, and humanity.

ELIZABETH "LIZ" L. BURD
(Nominated by IEEE Division V)

Professor and Pro Vice-Chancellor
University of Newcastle, Australia
Newcastle, Australia
www.LizBurd.com

Liz is Professor and Pro Vice-Chancellor at the University of Newcastle, Australia, and previously Professor of IT and Dean at the University of Durham, UK. From 2005-2011, Liz was the Director of the UK's Centre for Excellence in Computing.

Liz is globally recognized having received 5 University awards for enhancing computing education. She has held research collaborations with IBM, Microsoft, BT, BAE and Logica and received $12m in funding. Liz has produced over 80 articles and 40 keynotes.

She has represented the Computer Society BoG for 8 years including taking roles of VP for EAB and MGA, and from 2014-2015 as the Society's 1st VP.

Liz is currently an IEEE Director and chairs the IEEE Audit Committee and is also a member of the TAB Management Committee. For additional details please visit www.LizBurd.com.

IEEE Accomplishments and Activities
(M'94-SM'05)

Liz has been an active IEEE volunteer since the time she was a PhD student. Her contributions have covered most areas of the IEEE, including conferences, journals, education and local engagement for sections in Region 8 and 10. Her most recent work is via her joint leadership of one of two 2020 President Ad Hoc working groups. This working group called the 'Pipeline project' is examining ways in which volunteers can be better recognised for their contributions and to find more effective ways of encouraging new volunteers into the organization. Liz is also chair of the IEEE Audit Committee.

A selection of Liz's volunteer roles are below:

Activities

COMMITTEES/BOARDS:
- Tab Management Committee 2020-
- IEEE Board of Directors 2019-

- IEEE Audit Committee, Secretary 2019, Chair 2020
- TAB representative on Student Advisory Committee 2018-2019
- Educational Products Editorial Board Editor-in-Chief 2017-2019
- Society and Council Review Committee (Member) 2016-2018
- TAB Strategic Planning Committee (Member) 2017-2018
- IEEE Awards Board (Member) 2016
- VP CS EAB 2010-2012
- VP CS MGA 2013-2015
- CS 1st VP 2014-2015
- CS 2nd VP 2013
- IEEE Computer Society Board of Governors 2011-2015, 2019-
- Pre-University Education Committee (Chair) 2011-2013
- EAB Strategic Planning Committee (SPC) (Member) 2011-2012
- Education Portals Committee (Chair) 2014-2016
- IEEE EAB Awards Board (Member) 2013-2014
- IEEE EAB Nominations Committee (Member) 2015

REGIONS:
- Region 8 and 10

SECTIONS/CHAPTERS:
- Currently: Sydney branch, supporting various education initiatives

CONFERENCES:
- Active member (reviewer, steering Committee and program chair) of many IEEE conferences for over 20 years

Statement

As the world comes to grips with the impact of COVID-19, and for Region 10 adverse weather events including cyclone and bushfires it would be easy to question the relevance of professional organizations. It has become clear that professional associations are being disrupted; the "open" community challenges the way we present and consume information. Approaches IEEE once used to raise revenue are being replaced with new cheaper, more agile players and a host of low-quality competitors.

Yet, and perhaps because of the crises we faced in 2020, I see a strong future for professional societies. Now, more clearly that ever, we value community and technological innovation. Our scientific international and inter-disciplinary communities will help us navigate these most difficult times. The IEEE and especially the Computer Society has the power to make a difference.

If elected, I will help the IEEE transition to new modes of working, to better recognize the achievements of all members and to facilitate new networking opportunities to support multi-disciplinary and international engagement for local and global community building.

CECILIA METRA
(Nominated by IEEE Division V)

Professor, Deputy-President Engineering School
University of Bologna
Bologna, Italy
https://events.unibo.it/cecilia-metra-2021-ieee-division-v-delegate-elect-director-elect-candidate/

Cecilia Metra was the IEEE Computer Society President 2019, Vice-President for Member and Geographic Activities, Vice-President for Technical & Conference Activities, Editor-in-Chief, and General/Program Chair at numerous international conferences/symposia/workshops.

She is the IEEE Computer Society Past-President, a member of the IEEE TAB/PSPB Products and Services Committee, the IEEE European Public Policy Committee, and the IEEE Smart Village Governing Board.

She is full professor at the University of Bologna, Italy, where she has worked since 1991, and from which she received a PhD in electronic engineering and computer science. In 2002, she was visiting faculty consultant for Intel Corporation.

She published 190+ papers in the areas of design for test and reliability of integrated circuits/systems. Her research received public and private funding at national and international levels (e.g., from the EU, the Italian MISE and MIUR Ministries, Intel Corporation, STMicroelectronics, Alstom Transport, etc.).

She is an IEEE Fellow, IEEE Computer Society Golden Core Member, IEEE-HKN member.

IEEE Accomplishments and Activities
(AF'96-A'99-A'01-M'03-SM'10-F'14)

I am an enthusiastic volunteer who has served the IEEE and the IEEE Computer Society (CS) for 29 years in various capacities, including the IEEE Computer Society President 2019. Among several other activities, in 2019 we launched: 1) the "1st IEEE Computer Society Global Chapter Summit", that gathered together worldwide Chapter leaders; 2) a member survey to assess CS services; 3) CS conference participation grants for young women. The CS ended 2019 with an increase in reserves by 545%, thus making the CS financially healthy for future growth and investments to benefit its members. My other services include the following:

- IEEE CS Past-President (2020), President-Elect (2018)

- IEEE TAB/PSPB Products and Services Committee (2020)
- IEEE European Public Policy Committee (2020-present)
- IEEE Smart Village Governing Board (2020)
- IEEE Systems Council Advisory Committee (2020)
- IEEE CS Nominations Committee (2016, 2018), Chair (2020)
- IEEE CS Intersociety Cooperation Committee Chair (2020)
- IEEE CS Task Force on Diversity & Inclusion (2020)
- IEEE Digital Reality Initiative (DRI) Steering Committee (2019-present)
- IEEE DRI Project on "Reliable, Safe, Secure and Time Deterministic Intelligent Systems" Co-Chair (2019-present)
- IEEE Technical Activities Board (2019)
- IEEE CS "Reliable, Safe, Secure and Time Deterministic Intelligent Systems" STC Co-Founder (2019)
- IEEE CS Board of Governors (2013-2017)
- IEEE CS Vice-President for Member and Geographic Activities (2017)
- IEEE Council on Electronic Design Automation Board of Governors (2015-2017)
- IEEE CS Fellows Evaluation Committee (2015-2017)
- IEEE CS Vice-President for Technical and Conference Activities (2014)
- Editor-in-Chief of *IEEE Transactions on Emerging Topics in Computing* (2018, 2020), *CS Computing Now* (2013-2016), Associate Editor-in-Chief of *IEEE Transactions on Computers* (2007-2012)
- 190+ peer-reviewed publications
- IEEE CS Test Technology Technical Council (TTTC) First Vice-Chair (2012-2013), Communications Group Chair (2008-2013), Educational Program Chair (2012-2013)
- General/Program Chair/Co-Chair (16 times), Vice General/Program Chair/Co-Chair (6 times), Topic/Track Chair (34 times), and Technical Program Committee member (99 times) of IEEE International Conferences/Symposia/Workshops/Summits

Statement

Today more than ever the IEEE should gather all members together in an inclusive embrace and make their voices heard at the utmost scientific, technological and social levels in support of the health, economic and social challenges that humanity is facing, due to the pandemic emergency and its aftermaths. The IEEE includes among its members: luminaries (from academia and industry) in diverse technical fields, whose collaboration and coordination could be of an unprecedented value to the current fight against epidemics and related consequences; young students and professionals, who should be mentored for their educational and professional growth; brilliant innovators, who could conceive new ideas if properly financially supported; women and underrepresented minorities, who should be helped in the struggle for equal opportunities. If elected, I will devote all my enthusiasm, energy and strength for the IEEE to hear the voice of all its members, and promote their inclusive collaboration and valorization for the benefit of humanity, now more than ever. As proven during my IEEE Computer Society presidency, together, changes are possible! For additional information, please visit https://events.unibo.it/cecilia-metra-2021-ieee-division-v-delegate-elect-director-elect-candidate/

LALIT K. GOEL
(Nominated by IEEE Division VII)

Professor
Nanyang Technological University (NTU)
Singapore

Lalit Goel is a Fellow of the IEEE and has received 20 teaching awards. He obtained BTech Degree in Electrical Engineering from National Institute of Technology Warangal, India in 1983, and MSc and PhD degrees in Electrical Engineering from University of Saskatchewan Canada, in 1988 and 1991 respectively. He joined the School of Electrical & Electronic Engineering (EEE) at the Nanyang Technological University (NTU) Singapore in 1991 where he is presently a Professor of Power Engineering and Director of the Renaissance Engineering Programme (REP). He previously served as Head of Power Engineering, Dean of Admissions & Financial Aid, Director of Undergraduate Education (Projects) in the President's Office, and Director, Office of Global Education & Mobility. He served as Editor for the *International Journal of Electric Power Systems Research* from 2002 until 2019. He has published 185 international journal and conference papers in power system reliability, cost/benefit assessment, power markets and renewables.

IEEE Accomplishments and Activities
(S'89-M'91-SM'95-F'13)

- Member, IEEE PES Leadership in Power Award Committee, 2019-2020
- Member, PES Outstanding Student Scholarship Selection Committee, 2020
- IEEE PES Regional Representative Region 10, 2011-2016
- Honorary Chair, IEEE TENCON 2016, Singapore
- Member, IEEE Region 10 Awards & Recognitions Committee, 2015
- Member, Selection Committee, IES/IEEE Joint Medal of Excellence Award, 2008-2015
- Member, IEEE PES Roy Billinton Power System Reliability Award Committee, 2009-2014
- Member, Outstanding Power Engineering Educator Award Committee, IEEE PES, 2010-2017
- Editorial Board Member, *IEEE PES Power & Energy Magazine*, 2011-2017
- General Chair, IEEE TENCON 2009, Singapore
- IEEE PES Long Range Planning Committee Member, 2007-2011 and 2016
- IEEE Singapore Section: Chairman, 2007-2008

- IEEE PES Nominations & Appointments Committee Member, 2006-2007, 2010 and 2014
- IEEE Singapore Section: Deputy Chairman, 2005-2006
- IEEE PES Chapters Representative Region 10 South, 2005-2010
- IEEE Singapore Section: Committee Member, 2003-2004
- IEEE PES Chapter Singapore: Committee Member, 2004-2006
- IEEE PES Chapter Singapore: Chairman, 2002-2003
- IEEE PES Chapter Singapore: Deputy-Chairman, 2000-2001
- IEEE PES Chapter Singapore: Committee Member, 1998-1999; Honorary Treasurer, 1996-1997
- Publications Chair, 1995 IEEE PES Energy Management & Power Delivery (EMPD) Conference, Singapore
- Organizing Chairman, 1998 IEEE PES EMPD Conference, Singapore
- Vice-Chairman, IEEE PES Winter Meeting 2000, Singapore
- Honorary Secretary, International Power Engineering Conferences (IPEC) (technically co-sponsored by PES) 1997, 1999, 2001 and 2003, Singapore
- Chairman 2004 IEEE PES PowerCON, Singapore
- Chairman IPEC2005 and IPEC2007, Singapore
- Chairman International Conference on Probabilistic Methods Applied to Power Systems (PMAPS) 2010, Singapore (technically co-sponsored by PES)
- Co-Chair Asian Conference on Energy, Power and Transportation Electrification (ACEPT) 2016, 2017 and 2018 (technically co-sponsored by 3 IEEE Societies)
- Advisor, IEEE PES ISGT-Asia Conference 2018, Singapore
- Received IEEE PES Singapore Chapter Outstanding Engineer Award 2000
- Received IEEE PES Outstanding Power Engineering Educator Award 2009
- Received IEEE Singapore Section "Outstanding Volunteer" Award 2013
- Distinguished Lecturer, IEEE PES

Statement

As a volunteer with IEEE and PES for more than 30 years, I have served in various capacities, including Singapore Section Chair, and Regional Representative for Asia-Pacific Region 10. The power and energy industry is going through a transformational phase with renewables and their integration, energy storage, and digital technologies, etc., and PES needs to stay at the forefront for members' benefit. I shall endeavor to bring value to both younger and experienced engineers at the technical and educational levels – in particular, we need to continue to attract younger and diverse members for a sustainable future for the Society. If elected, I will also continue my predecessors' great work to curtail costs and keep the budget in check to benefit the volunteers. I will help build close relationships with IEEE sister Societies, develop good relations with other professional associations, and build global outreach for the benefit of IEEE members. My experience in attracting and promoting talent, identifying and nurturing innovation, and managing budgets, will be highly beneficial for this IEEE Board of Directors position.

CLAUDIO CAÑIZARES
(Nominated by IEEE Division VII)

Professor and Hydro One Endowed Chair
Department of Electrical and Computer Engineering
University of Waterloo
Waterloo, Ontario, Canada
https://uwaterloo.ca/scholar/ccanizar

Dr. Cañizares has held various positions at Waterloo since 1993. He received the EE diploma from EPN in Ecuador (1984), where he held different positions between 1983 and 1993, and MSc (1988) and PhD (1991) EE degrees from the University of Wisconsin-Madison. His professional activities focus on power systems, microgrids, energy systems and smart grids, leading multiple grants and contracts, collaborating with industry and academics in Canada and abroad, and supervising many researchers. He has authored numerous highly cited publications, including some disclosures and patents, and has been invited to multiple institutions and conferences worldwide. He is the EIC of the IEEE Trans. Smart Grid and an IEEE Fellow, and Royal Society of Canada and Canadian Academy of Engineering Fellow. He was awarded the 2017 IEEE PES Outstanding Power Engineering Educator Award, the 2016 IEEE Canada Electric Power Medal, and several IEEE PES Technical Council and Committee awards and recognitions.

IEEE Accomplishments and Activities
(S'87-M'88-S'88-M'91-SM'00-F'07)

Awards and Recognitions:
- IEEE Power System Dynamic Performance Committee (PSDPC) Technical Committee Working Group Recognition Awards 2020 (announced), 2019, 2017, 2016, 2015, 2013, 2007, 2005
- IEEE-PSDPC Technical Committee Service Recognition Awards 2019, 2017
- IEEE-PES Outstanding Power Engineering Educator Award 2017
- IEEE-PSDPC Technical Committee Distinguished Service Award 2017
- IEEE Canada Electric Power Medal 2016
- IEEE-PES PowerTech Conference A. Papadias Best Student Paper Award 2015
- IEEE-PSPDC Certificate of Appreciation for Outstanding Leadership 2012
- IEEE-PES Technical Council Working Group Recognition Awards for Outstanding Technical Report 2009, 2005
- IEEE Fellow 2007

Positions and Memberships:
- EiC, *IEEE Transactions on Smart Grid* (2020-today)
- IEEE-PES Awards Committee (2019-today)
- Chair, *IEEE-PES Electrification Magazine* Steering Committee (2019-today)

- IEEE-PES Lifetime Achievement Award Committee (2019-today)
- Past-Chair, Chair, Vice-Chair, and Secretary, IEEE-PES PSPDC (2013-today)
- Editor, IEEE Smart Grid Technical Activities Committee's white paper (2018-today)
- Chair, IEEE-PSDPC Task Forces (2018-today, 2014-2018, 2010-2014, 2005-2010)
- IEEE-PES Technical Council and New Product Development (NDP) Committee Liaison (2018-2019)
- EiC, *IEEE Proceedings* Special Issue (2018-2019)
- International Program Committee IEEE-PES PowerTech Conferences (2018-2019, 2010-2011)
- IEEE-PES Outstanding Power Engineering Educator Award (OPEEA) Committee (2017-today)
- IEEE-PES NPD Committee (2016-2019)
- TPC Chair, IEEE PES ISGT Latin America (2016-2017)
- *IEEE Proceedings* Editorial Board (2016-today)
- Associate Editor, *IEEE Transactions on Smart Grid* (2012-2014)
- TPC/Advisory Committee IEEE-PES ISGT Europe (2011, 2010, 2009)
- Associate Editor, *IEEE Transactions on Industrial Electronics* (2011-2012)
- Guest Editor, *IEEE Transactions on Industrial Electronics Special Issue* (2009-2011)
- Chair and Secretary IEEE-PSDPC Power Systems Stability Controls Subcommittee (2006-2011)
- Associate Editor, *IEEE-PES Transactions Letters* (2004-2019)
- Member, IEEE-PES PSDPC (1998-today)
- Member, IEEE-PSDPC Power System Stability Subcommittee (1997-today)
- Member, IEEE-PSDPC Power System Stability Controls Subcommittee (1997-today)
- Chair and Secretary, IEEE-PSDPC Voltage Stability Working Group (1994-2002)
- Contributing Member of multiple IEEE-PSPDC Task Forces and Working Groups (1994-today)
- IEEE Member since 1987

Statement

I have been an IEEE and PES member since I was a graduate student back in 1987, and ever since I have been fully engaged with and contributed to the IEEE, and particularly the PES, with multiple publications and conference participations, and as a very active member and/or leader of numerous technical task forces, working groups, committees, and editorial boards. I have benefitted greatly from the wealth of technical products and opportunities that the IEEE and PES offers, and in the process, I have had the opportunity to witness, learn, understand, and contribute to different aspects of the IEEE and PES technical activities and management. Based on this extensive experience and my personal knowledge of and interactions with IEEE members from all regions, I strongly believe that I can properly represent the interest of the PES and its membership at the IEEE Board and Assembly. I look forward to the opportunity and honor of representing our Society and its members at the IEEE Board, considering its large size and relevance to the Institute.

ALI H. SAYED
(Nominated by IEEE Division IX)

Dean of Engineering
Ecole Politechnique Federale de Lausanne (EPFL)
Lausanne, Switzerland
https://asl.epfl.ch/

A. H. Sayed is Dean of Engineering at EPFL where he also leads the Adaptive Systems Laboratory. He has served as Distinguished Professor and Chairman of Electrical Engineering at UCLA, Los Angeles. He is recognized as Highly-Cited Researcher and is a member of the US National Academy of Engineering. He served as President of the IEEE Signal Processing Society (2018-2019). An author of 550+ scholarly publications and six books, his research covers adaptation and learning theories, data and network sciences, and statistical inference. His work has received several awards including the Technical Achievement Award (2012), Meritorious Service Award (2013), and Education Award (2015) from the IEEE Signal Processing Society, Papoulis Award from the European Association for Signal Processing (2014), the Terman Award (2005) from the American Society for Engineering Education, and several Best Paper Awards from IEEE (1996, 2002, 2005, 2012, 2014). He is Fellow of IEEE, EURASIP, and AAAS.

IEEE Accomplishments and Activities
(S'90-M'92-SM'99-F'01)

1. Extensive working knowledge of IEEE.

2. Served on several IEEE and Society level positions such as TAB Committee on Diversity and Inclusion (2019-2020), Committee on TAB in 2030 (2016), TAB Periodicals Review Committee (2007-2009), President and President-Elect of Signal Processing Society (2016-2019), Vice-President Publications (2009-2011), BOG member (2007-2011), and Conferences Board member (2007-2011) of SP Society, Editor-in-Chief of *IEEE Transactions on Signal Processing* (2003-2005).

3. As Signal Processing Society President, led and implemented policies to make the Society more inclusive to its members, more supportive of open science, and better focused on educational and industry outreach:

   a. Instituted direct elections by members to the position of President.
   b. Established US$1 standing annual membership policy for students.
   c. Capped student tutorial and registration fees at conferences.
   d. Reduced Society dues by 50% to members from IEEE-qualifying

low-income countries.

e. Launched regional meetings worldwide to enable members to organize local technical meetings, summer and winter schools, and industry forums in their neighborhoods with Society support.

f. Moved major conferences to new locations. For the first time, flagship conferences by the Society will be held in India and Malaysia. Elected the first Society Vice-President Officer who is physically located in India.

g. Established a new Vice-President of Education position to strengthen online continuing educational and training activities, especially to industry members.

h. Supported a new conference event targeting industry members, investors, and Society entrepreneurs. Supported new awards for industry members.

i. Promoted open science and launched the new *IEEE Open Journal of Signal Processing* with the lowest open access fees within IEEE.

j. Supported and promoted female volunteer leaders. Several Society journals are led by female EiCs. The Awards Board, a VP officer position, and the Society's President-Elect are female volunteer leaders.

k. Established new awards to recognize younger members and teachers.

Statement

I have served in several IEEE leadership positions, including more recently as President of the Signal Processing Society (2018-2019), which is the oldest and one of the largest technical societies within IEEE. I am familiar with the needs of our members, especially students, young professionals, and industry. During my term as President, I pursued policies that made our Society more inclusive and also more affordable. I will leverage these experiences to exert a positive influence on the IEEE Board of Directors. IEEE is an impressive network of professionals from academia, industry, government, and the private sector. Their knowledge is a formidable force for the common good. I will promote policies that (a) make IEEE less bureaucratic; (b) strengthen educational and job-training opportunities; (c) create new modes of interaction with IEEE events; (d) target the needs of industry members, recognize their achievements, organize industry-focused events, and create opportunities for stronger connections with academia and government; (e) strengthen student mentorship and industry internship programs; (f) embrace student-led activities; and (g) support open access and open science policies.

JOHN R. TREICHLER
(Nominated by IEEE Division IX)

Chief Technical Officer
Raytheon Applied Signal Technology, Inc
Sunnyvale, California, USA

John Treichler received his BA and MEE degrees from Rice University, Houston, TX in 1970 and his PhDEE from Stanford in 1977. He served as a line officer aboard destroyers in the US Navy from 1970 to 1974. In 1977, he joined ARGOSystems in Sunnyvale CA and then, in 1983, joined the EE faculty at Cornell as an Associate Professor. In 1984, he co-founded Applied Signal Technology, now a business unit within Raytheon Technologies. It designs and builds advanced signal processing equipment used by the United States government and its allies for foreign intelligence collection. For 2½ years, he was the President of the Raytheon Applied Signal Technology business unit and continues as its Chief Technical Officer. In 2016, he was elected a member of the National Academy of Engineering. He also serves on advisory boards for several ECE departments and university engineering schools.

IEEE Accomplishments and Activities
(S'70-M'74-S'74-M'78-SM'90-F'92-LF'13)

I joined the IEEE as a Student member 50 years ago and am now a Life Fellow. I have been a member, and then a leader, in TAB organizations for that whole time. My tenure on the IEEE Foundation Board over the past 6 years (currently serving as President and Chair) has exposed me to the broad range of IEEE policy and financial issues.

IEEE COMMITTEES/BOARDS:
- IEEE Jack S. Kilby Signal Processing Medal Evaluation Committee (2007-2011)
- IEEE Awards Board (2015)

SOCIETY(IES):
Membership:
- Information Theory (1970-1988)
- Communications (1970-present)
- Signal Processing Society (SPS) (1974-present); Many roles in the SPS leadership from 1988 through 2013

OTHER IEEE-RELATED ACTIVITIES:

- IEEE Foundation (2014-present); President and Board Chair of the IEEE Foundation (2017-present)

IEEE AWARDS AND RECOGNITIONS:
- IEEE Fellow: 1992
- IEEE Third Millennium Award: 2000
- IEEE SPS Technical Achievement Award: 2000
- IEEE SPS Industrial Leader Award: 2016 (the first such award)
- IEEE SPS Norbert Weiner Society Award: 2019

MAJOR ACCOMPLISHMENTS:

1. Helped establish the SPS Signal Processing in Communications Society Technical Committee in recognition of the growing potential of using DSP in communications hardware and systems.

2. Working with the leadership of the SPS and the IEEE Awards Board, gained the approval to establish the IEEE Fourier Award for Signal Processing.

3. As SPS Vice President-Awards and Membership, worked with SPS President Ray Liu to establish several new SPS educational and product offerings. The success of this work was recognized in 2016 by the EAB with their Professional Development Award.

4. As Member and then Chair of the IEEE Foundation have led the Foundation's "Realize the Full Potential of the IEEE" campaign. This campaign, aimed at raising USD$30M to support IEEE-volunteer-directed humanitarian and educational activities, is very close to its successful conclusion.

Statement

My positions coalesce to these ---

1. IEEE should be by and for its members. While the IEEE is legally a corporation, the fact that it is led by its volunteer members makes it different from for-profit companies and not-for-profit universities. Those differences are important and we must avoid the trap of falling into either of those other operational models.

2. The value proposition within the IEEE for its academic members is far clearer than it is for many other IEEE members -- for example, the practicing engineers working in industry. This imbalance distorts many aspects of how the IEEE operates. The board needs to move toward solving this imbalance and properly addressing the whole IEEE membership.

3. With more than 400K members spread all of over the world, the IEEE has enormous potential to 'do good' as well as meeting the needs and desires of its membership. What this balance should be, and how to achieve it within the IEEE, and with the IEEE Foundation, are important questions for the IEEE's volunteer leadership going forward.

FABRICE LABEAU
(Nominated by IEEE Division IX)

Deputy Provost
McGill University
Montreal, Canada
https://www.mcgill.ca/ece/fabrice-labeau

F. Labeau is a Professor with the Electrical and Computer Engineering Department, McGill University, where he holds the NSERC/Hydro-Québec Industrial Research Chair in Interactive Information Infrastructure for the Power Grid. His research interests are in applications of signal processing to healthcare, power grids, communications and signal compression. He has (co-) authored more than 200 papers in refereed journals and conference proceedings in these areas.

He has held several administrative and management positions at McGill University, including Associate Dean, Interim Chair and Acting Dean. He is currently Deputy Provost (Student Life and Learning); in this role, he manages a team of 600 employees in all areas of student life. He received in 2015 and 2017 the McGill University Equity and Community Building Award (team category), the 2008 and 2016 Outstanding Service Award from the IEEE Vehicular Technology Society, and the 2017 W.S. Read Outstanding Service Award from IEEE Canada.

IEEE Accomplishments and Activities
(S'00-A'00-M'03-SM'07)

I am the Past President of the IEEE Sensors Council, a former President (2014-2015) of the IEEE Vehicular Technology Society and former Chair (2015-2016) of the IEEE Montréal Section. Over my career, I have acquired extensive management experience, through different positions at my university and my participation in many different instances of IEEE.

My leadership experience outside of IEEE includes management of large budgets and operational units, strategic responsibilities over whole areas of the university and emergency management and preparedness. Within IEEE, I have been involved in the different operational units and across major boards of IEEE, dealing with many of the key areas of the Institute: Membership and Geographic Activities (at the Region and Section level, but also as VP Membership Development of the VT-Society), Publications (as a long-time member of the TAB Periodicals Committee and a member of the 2019 TAB

Ad-Hoc on Publications Strategy), Conferences (as conference organizer [including as general co-chair of ICIP 2021, GlobalSIP 2019 and VTC2016-Fall], member of the SP-Society Conferences Board or as the main conference coordinator in my section), Education (as a member of review committees in the IEEE Educational Activities Board) and Operations (as a Society and Technical Council President and an executive committee member of the informal Financial Transparency group).

As Sensors Council President (2018-2019), I successfully led the Council through its 5-year review, during which the review committee "thank[ed] the Council for its effective practices, in particular in setting an example of how Councils can work in collaboration with the member Societies and show they are delivering value to their members".

As VTS president (2014-2015), I have led the society through strong growth in our transactions, increased numbers of new initiatives, both society-led and externally driven, as well as a revival of our VPPC Conference.

Statement

IEEE faces challenges in many of its areas of operation:

- IEEE is at a crossroads in terms of its publications. Facing open access mandates, we need to focus on our core added values and potentially reinvent our publications.

- Younger audiences have little interest in membership-based participation. We need to focus on better ways to serve the community, through meaningful, long- and short-term commitment as a participant in IEEE activities.

- IEEE's educational activities are not only an imperative given our tagline, they may also be the next opportunity for IEEE to develop new markets and value-added services.

- The power of IEEE is in its volunteers; they very often identify with their community (section, region, society) more that with IEEE itself. We need to find the balance between a sound corporate governance and the recognition of the power of our distributed creativity and communities.

If elected as Division IX Director, I plan on bringing to bear my experience to foster discussions on these key subjects, and help effect change throughout the Institute.

ANDREW D. LOWERY, PH.D.
(Nominated by IEEE Region 2)

Senior Engineer
Volvo Group
Falling Waters, West Virginia, USA

Dr. Lowery has 12 years of experience in electronic and controls systems and applications. During his career he has participated in research in the areas of design and controls, sensing and power equipment, antennas and electromagnetics, and engineering education, resulting in peer reviewed publications, including 5 patents and over 30 conference proceedings and journal or bound papers. Dr. Lowery is currently a Senior Engineer at Volvo Group.

IEEE Accomplishments and Activities
(M'06-GSM'12-M'12-GSM'13-M'13-GSM'14-M'14-SM'18)

- **COMMITTEES/BOARDS:** MGA Student Activities Committee, 2018-Present; HKN Committee on Journey Mapping, 2019-Present; TAB Ad Hoc on Entrepreneurship, 2018.

- **REGIONS:** Region 2 Executive Committee, Student Activities, 2018-Present; Region 2 Student Activities Coordinator, 2018-Present.

- **SECTIONS/CHAPTERS:** Pittsburgh Section Student Activities Coordinator, 2019-Present; Pittsburgh Section Executive Committee, 2015-2018; Pittsburgh Section Immediate Past Chair, 2018; Pittsburgh Section Chair, 2017; Pittsburgh Section Vice Chair, 2016; Pittsburgh Section Treasurer, 2014.

- **CONFERENCES:** 2020 IEEE Region 2 Student Activities Conference, Conference Chair; EVO2019, IEEE-USA Premier Leadership Conference, Steering Committee Member; 2019 IEEE Region 2 Student Activities Conference, Conference Chair; IEEE N3XT® Keynote & AlphaLab Gear International Hardware Cup Finals, Steering Committee Member, 2018; 2018 IEEE Region 2 Student Activities Conference, Conference Chair.

- **OTHERS:** Pittsburgh Section Entrepreneurs Network, Chair, 2018-Present; Power and Energy Society, Member; Technology and Engineering Management Society, Member.

Major past contributions to IEEE:

- Expand and update the Region 2 Student Activities Conference year-over-year between 2018-2020.

- Enhance and grow activity, membership, and income as Chair of the Pittsburgh Section.

- Create the first Entrepreneurs network (Pittsburgh Section) within the Region from supporting with MGA and TAB.

Statement

Through membership and time volunteering within IEEE, I have developed an understanding of how IEEE functions as an organization. If elected, I will use my knowledge and experience of organizational, administrative, and financial knowledge to advocate for members of the Region in several ways, including:

- Support for Local Activities: The Region needs to recognize and share the best of Section activities through an initiative that helps to capture activity (meeting, guest speakers, workshops, etc.) in one section that can be used in another.

- Financial Transparency and Growth: Regional funds support all members, and members should be easily able to see how funds are being, and planned on being, used. Due to decreased membership, the Region needs to investigate additional sources of income, including the formation of an annual regional conference.

- Engagement of Students and Young Professionals: Regional and local units need to expand how we engage with Student Members and Young Professionals. The Region will continue to grow the successful Regional Student Activities Conference, while supporting and forming additional activities with support of higher-grade members.

PHILIP M. GONSKI, P.E.
(Nominated by IEEE Region 2)

Project Manager
Burns Engineering
Philadelphia, Pennsylvania, USA

As the grandson of two renowned inventors and IEEE members, you could say Philip's interest in electrical engineering was predetermined. What wasn't predetermined was how Philip would carve out his own path to become a leader and expert in his field.

After graduating from the University of Illinois with a bachelor's in Electrical Engineering, Philip worked for Sargent and Lundy in Chicago, designing power facilities. Projects include the largest US biodiesel plant and a 3200MW Combined Cycle Plant in the Middle East. While in Chicago, Philip received a Master's in Energy Engineering.

Philip is a manager at Burns Engineering and a leader in the Distributed Generation and Renewable Energy fields. Projects include the Philadelphia Navy Yard Microgrid, combined heat and power plants, battery energy storage, and solar power generation.

Philip was distinguished as the Delaware Valley and IEEE Philadelphia Young Engineer of the Year and has been recognized by NPR.

IEEE Accomplishments and Activities
(S'04-M'07-GSM'09-M'09-M'11-SM'14)

Region Volunteer Contributions
- **Region Treasurer**
  - Successfully managed region finances in line with IEEE MGA policies
  - Ensured timely support to region conferences and outreach activities
  - Assisted with financial planning for Section's Congress
- **East Area Chair**
  - Provided guidance to four (4) Sections in the Region on event planning and PACE Activities
  - Attended Sections Congress as Regional Delegate

Section Contributions
- **Community Outreach**
  - Local grammar schools, high schools, and universities: Guest Speaker & Panelist
  - Delaware Valley Science Fair: IEEE Award Judge
  - Future City Competition: Special Award Presenter (2013-2020)
  - Supported IEEE Chapter Initiatives:
    - Outreach programs for Arduino and electronics STEM activities
    - Lobbied on behalf of IEEE at the USA Congressional Visit Day
- **Continuing Education**
  - Implemented CEU Accreditation at Section Meetings because

previously members did not receive continuing education credit for attending educational seminars. This program directly drove value for industry members and we witnessed a strong increase in attendance at our section nights.

- **Organized Career Fairs & Networking Forums**
  - Organized and hosted live and virtual job fairs for IEEE members & other professionals in the engineering community, resulting in multiple job offers
- **Section Website Overhaul & Update**
  - Volunteer Forms – facilitated coordination between volunteer needs and member availability
  - Advertising and Job Board – Created website system functionality for companies to advertise and post job offerings
- **Supported Members in Reinstating Defunct Chapters/Societies**
  - Signal Processing Society
  - Antennas and Propagation
  - Aerospace and Electronic Systems
- **Partnered with other Organizations for Education & Networking Events**
  - Tours of facilities: Navy Yard, Amazon
  - ASME, ASCE, AIA Joint Young Professional Events
- **Leadership**
  - Philadelphia Section Chair for Three (3) Years – one of the largest sections in the region
  - Treasurer and Secretary

Standards Board
- **Balloting Member**
  - IEEE 1547 – IEEE Standard for Interconnection and Interoperability of Distributed Energy Resources with Associated Electric Power Systems
  - IEEE 2030.7 – IEEE Standard for the Specification of Microgrid Controllers

Statement

"What is IEEE's value to me?"

Value is the defining factor members consider when renewing their membership. We are losing this battle. In today's age of information overload, organizations must adapt or become as obsolete as analog phones. As a society dedicated to innovation, we must adapt to changing trends.

Key Strategies

- **Relevance.** Training makes us relevant. With less formal in-house training offered by engineering firms, IEEE can fill the gap. Companies will value employing a better-educated workforce and will sponsor IEEE memberships for employees, which we will promote, document & report.

- **Networking.** Post-college, one's peer network is their greatest resource. I will embark on a campaign to guide students, young professionals, and members to see the **value** in meeting one another and sharing information in-person. Furthermore, our website must become a better resource for job opportunities and events.

- **Partnerships.** Several organizations have similar goals and community events. There is great **value** in partnering on joint programs with our counterparts at ASME, ASCE and local universities. Together, we can learn from our set-backs and successes.

TAREK LAHDHIRI, PhD, PE, PMP, BB-DFSS, SMIEEE
(Nominated by IEEE Region 4)

Strategy Leader, Control Systems Simulation and
 Automation
Global Validation Department
General Motors LLC
Warren, Michigan, USA
http://tlahdhiri.com/

Dr. Lahdhiri received his MS-EE in Communication Systems in 1990 and PhD in Control Systems in 1995. He is currently working for General Motors LLC in Detroit, where he is holding the position of Strategy Leader for Real-Time Control Systems Simulations and Automation within the Global Validation Department.

Dr. Lahdhiri is an IEEE Senior Member, licensed Professional Engineer (PE) in the state of Michigan, licensed Project Management Professional (PMP), Black Belt DFSS certified by General Motors LLC, and holder of the Electrical Validation Journeyman and Vehicle Validation Apprentice Certifications issued by General Motors, Detroit, USA.

Dr. Lahdhiri has been involved with several universities, where he held the positions of Research Associate, Adjunct Professor, and Lecturer at the University of Windsor, Ontario, Canada, University of Detroit Mercy, Detroit, Michigan, and University of Michigan, Dearborn, Michigan. He taught several classes in many Electrical Engineering disciplines and was involved in many research projects.

IEEE Accomplishments and Activities
(S'92-S'96-M'99-SM'03)

Dr. Lahdhiri has been involved and active IEEE member for more than 26 years. He started as a student member in the Central Tennessee Section. Then he moved to Region 4, where he started being active and held the positions of PACE Chair, Southeastern Michigan Section (SEM) and IEEE Student Counselor, University of Windsor (IEEE-SEM Section), and member of the IEEE-USA 1998 GOLD Committee. These assignments gave him a better and broader idea about IEEE activities and he moved to the Region and IEEE-USA levels. He held the positions of Region 4 Membership Development Chair, member of the IEEE RAB Industry Relations Committee (IRC), IEEE-MGA Nominations and Appointments Committee (N&A), IEEE-USA Employment & Carrier Services Committee (ECS), co-chair of IEEE-USA Career Workforce

Policy Committee (CWPC), and Vice President of IEEE-USA Career and Member Services/Professional Activities (2018-2019). He is currently the Region 4 PACE Chair and the PACE Liaison within the IEEE-USA Career and Professional Development (CPD) Committee.

Dr. Lahdhiri has been an advocate in promoting and raising the awareness and the need of soft skills for engineers through IEEE-USA PACE, ECS, and CWPC committees. He contributed in the development and deployment of several IEEE-USA packages in following topics: Project Management (PM) for Engineers, Design For Six Sigma (DFSS), Leadership Skills, Resume Development, Job Interview, Career Development, Job Transition. He provided over 100 free Professional Seminars, Workshops, and webinars across all six regions in the United States.

Dr. Lahdhiri has been promoting many IEEE events through the PACE program: IEEE-USA Annual Meetings, Future Leader Forums, IEEE WIE, K-12 STEM, Government Relations, students SPACs, and Career events.

Dr. Lahdhiri received several awards: 2012 IEEE-Region 4 Jack Sherman Award, 2007 IEEE-USA Citation of Honor award, 2004 IEEE-USA Leadership Achievement Award, 2003 IEEE Southeast Michigan Best Involvement Award, and 2001 IEEE-USA Professional Achievement Award.

Statement

I have dedicated my time and effort to enhance IEEE member services.

My activities are member driven and I believe that the only way for growth for Region 4 is to:

- Engage our members and interact with them at the Section/Chapter level.
- Increase the effectiveness of the current product and services and develop new ones that fit our member needs.
- Timely reaction to the challenges in today's dynamic workplace.
- Build stronger relations with industries.
- Leverage my IEEE, industry, and academic experience to bridge the gap between academia and industry.
- Promote YP, WIE and Student Activities.
- Increase collaboration between the different Committees.
- Establish University and Corporate Liaison positions at the region level.
- Devote more resources to assist with the continued rejuvenation of all sections within the Region.
- Implement new initiatives to decrease the declining number of members within the Region.
- Collaboration with other Regions.
- Balanced Budget while getting the best service to our members.

I would like to be given the opportunity to leverage my IEEE, professional, and educational experience in better serving our members.

VICKIE A. OZBURN
(Nominated by IEEE Region 4)

Sr. Software Engineering Manager
Collins Aerospace
Cedar Rapids, Iowa, USA

Vickie Ozburn is an IEEE Senior Member and active volunteer for over 13 years at the Section and Region Levels. She has over 30 years of experience in the Aerospace and Defense Industry at Collins Aerospace. She has held several technical and management roles including software development, engineering management, project management, quality, currently leading a diverse team of remote employees.

Vickie has held several positions in our section and regional committees, which set strategies and goals for the Region 4 area. She brings forth many creative ideas and initiatives. In addition to simply suggesting things, she lays out explicit courses of action and steps to assist our members obtain those goals. Vickie has dedicated her efforts to help assist others, both professionally and personally.

Vickie holds a B.A. in Computer Science from Mount Mercy University, B.A. in Business from Coe College, and MBA from Nova Southeastern University.

IEEE Accomplishments and Activities
(M'07-SM'13)

IEEE Board and Committees:

MGA Membership Recruitment & Recovery Committee, 2013-present

IEEE Humanitarian Activities Events Subcommittee Member, 2019-present

IEEE Tellers Committee Vice-Chair, 2018

IEEE Tellers Committee Member, 2016-2017

Region 4:

Region 4 Membership Development Chair, 2013-present

Member of Ad-Hoc Retention and Growth Committee, 2019-present

Ad-Hoc Membership Transition Committee Chair, 2017-2019

WIE AI Leadership Summit Partnership Chair, 2019

Section:

Annual ProCon Conference Chair, 2004-2017

Cedar Rapids WIE Chair, 2012-present

Cedar Rapids Section Awards & Recognition Committee Chair, 2012-2014

Cedar Rapids Section Chair, 2011

Cedar Rapids Section Vice-Chair, 2010

Cedar Rapids Treasurer, 2009

Significant Achievements:

Cedar Rapids Section Ted A. Hunter Award for outstanding individual service in furthering the purposes and objectives of the Cedar Rapids Section and IEEE

Founding member of Cedar Rapids Section WIE Affinity Group

Formed PES Society as Section Chair

Chair of the Annual ProCon Professional Development Conference for 13 years, in 2017 celebrating the 20th annual conference

Statement

I have dedicated my time and effort to promote and grow membership. The IEEE's strengths are not just technological, but also found in the spirit and capabilities of our members. I will use this opportunity to leverage those capabilities to grow our membership and engage members to use their skills and diversity of thought to address real-world problems.

- I will work to execute the IEEE mission and to build the vision needed for us to remain essential to the global technical community and to technical professionals

- Build on the work we have done for the past 2 years on Membership Transition/Engagement

- Work with area and section chairs to keep dialog channels open through virtual meetings and leveraging best practices

- Provide more support and guidance to our Sections and Younger Leaders

- Focus on IEEE programs (Humanitarian (HAC), SIGHT, EPICS, Smart Village) to connect Sections to Local Communities

- Provide support to our students, Young Professionals, LMAG, PACE and WIE through mentorship, engagement and activities at the Section levels, Student Branch, and Regional levels

KATHY HAYASHI
(Nominated by IEEE Region 6)

Senior Staff Engineer
Qualcomm
San Diego, California, USA
https://kathyhayashi.wordpress.com/

Kathy has been involved in the semiconductor industry her entire career - developing, deploying and analyzing advanced software tools used to create computer and mobile phone chips. At Unisys Corporation, she worked in research and development designing advanced in-house CAD software tools. Through acquisition, she transitioned to Cadence Design Systems where some previous tools were incorporated into commercial EDA tools. She then brought her professional leadership as Director at Syntricity, a San Diego based semiconductor startup.

Kathy has held a variety of leadership roles in technical development, applications engineering and information technology.   She currently works at Qualcomm Inc., working with semiconductor workflows in large scale compute environments.

Kathy is on the Executive Board for the San Diego Dance Theater and has been on Technical Advisory Boards for local community colleges. She is also a member of a San Diego Athena Forum for Executive Women.

IEEE Accomplishments and Activities
(M'12-SM'13)

Kathy has served in a wide range of leadership roles, interfacing within many levels of IEEE. She has a track record of projects that embrace innovation and community leadership.

Leadership Roles
- IEEE San Diego Section, Chair (2019-present)
- IEEE San Diego Section Consumer Electronic Society - Chair (2017-2018)
- IEEE San Diego Section Women in Engineering Affinity Group - Founder, Chair (2015-2017), Vice-Chair (2017-2018)
- IEEE Women in Engineering Region 6 Coordinator (2017-2019)
- IEEE Women in Engineering International Leadership Conference, Chair (2019-2020), Vice-Chair (2017-2018)
- IEEE 5G Summit Committee member for SD Section (2019)
- IEEE GLOBECOM San Diego WIE Panel and Luncheon – Chair (2015)

- IEEE Technology Time Machine – Women in Engineering Panel, History and Future of Semiconductors (2016)

Awards
- **2019 MGA Innovation Award** for outstanding innovation and leadership
- **2019 IEEE Region 6 Section Director's Award** for outstanding and innovative leadership, while leading and inspiring the next generation
- **2017 IEEE HKN – ETA KAPPA NU Honor Society**

Accomplishments
- **IEEE Evening of Innovation** – Provided the vision and execution of the "Evening of Innovation" in San Diego, highlighting a panel discussion of IEEE award winners (2019)
- **IEEE Women in Engineering Leadership Conference** – Chair of the largest annual IEEE WIE event (2019-2020)
- **IEEE CDMA Milestone and Dedication Ceremony** – Led milestone initiative for the first milestone in San Diego commemorating CDMA and dedication ceremony (2017)
- **IEEE WIE Women In Technology Summit on Emerging Technologies** – Chair and Organizer, San Diego (2016)
- **IEEE GLOBECOM Panel - Chair and Presenter of IEEE WIE Panel on 'Global Innovation'** highlighting the need for collaboration and innovation both locally and worldwide (2015)

Statement

Throughout the region, IEEE volunteers are community leaders with the vision and skills to spread IEEE's mission across the areas they serve. Understanding their unique and diverse areas, they are able to work collaboratively across industry, education and government institutions to transform and inspire their communities.

Focus on Community – By understanding the regions they serve, IEEE members can establish strong community connections to provide focused impact

Strengthening the Infrastructure – Improving communications and operations to seamlessly provide invaluable oversight, communications and coordination from Region to Area to Section

Robust budget – Focus on judicious budget management and diversification to minimize any risks or impacts

Diversity – Diversity should be a focus in all that we do. Not a separate initiative, but integral to building productive and functioning teams, events and recognitions

For those who are active members of IEEE, the personal, global and technical impacts are clear. Working together, we can help others reach new and richer career heights by realizing the full benefits of IEEE.

SCOTT M. TAMASHIRO
(Nominated by IEEE Region 6)

Sr. Principal Systems Engineer
Raytheon Technologies
Raytheon Intelligence & Space
Cerritos, California, USA
tamashiro4region6.blogspot.com

Scott is a member of his Department's technical staff for Raytheon Technologies. He holds a BSEE with a Math Minor from Cal Poly Pomona and a MSEE from the University of Southern California. He has 21 years of experience in the field of reliability and maintainability analysis of a variety of ground, space, and airborne systems. He is a Raytheon Subject Matter Expert & Six Sigma Specialist and ASQ Certified Reliability Engineer. He also teaches for USC's System Safety Certificate Program.

Scott currently serves as IEEE-USA Secretary/Treasurer after being an active member of Region 6's OpCom from 2007-2018. He enjoys volunteering and his past committee and representative efforts have spanned local, regional, technical activities, IEEE-USA, MGA, Young Professionals, and Standards. He also loves to spend time with his wife and two kids at home or visiting somewhere new. He is also the head statistician for the local professional soccer club.

IEEE Accomplishments and Activities
(M'02-SM'06)

COMMITTEES/BOARDS: Geographic Unit Operations Support (2020), Finance Committee (2018-2020), IEEE-USA Treasurer (2018-2020), IEEE-USA AdHoc Strategic Streamlining – Chair (2017), IEEE-USA Member-at-Large (2015-2016), Training Committee (2016), MGA Nominations & Appointments (2016-2017), Member Benefits Portfolio Advisory Committee (2015-2016), Volunteer Leadership Training (VOLT) Committee (2013-2016), Admission & Advancement (2009-2010); Standards Association: Standards Board – Graduates of the Last Decade (currently "Young Professionals") Representative (2007-2008); IEEE-USA GOLD Representative (2006); GOLD Committee (2002-2004, 2006-2008); Transnational (2005); RAB Awards and Recognition (2003-2004).

REGION 6: Assistant Treasurer (2019-2020), Treasurer (2015-2018), Region 6 Director's Award (2011, 2015, 2018), Project Manager (2013-2014); Sections Congress Coordinator (2012); Secretary (2007-2011); GOLD (2002-2004).

SECTIONS/CHAPTERS: Coastal Los Angeles: Member, Reliability Society Los Angeles Chapter Chair (2001-2003).

TECHNICAL: Reliability Society: Member, Administrative Committee (2006-2011). Aerospace and Electronic Systems Society: Member.

OTHERS: GHTC Registration Chair, 2014-2020; Rising Stars Committee, 2014-2017; GOLD Committee – Secretary, 2007; RAB GOLD Achievement Award, 2007; HKN Member, 2015; GOLD 10th Anniversary Game Contest, 2006.

MAJOR ACCOMPLISHMENTS

- Chair of the IEEE-USA AdHoc on Strategic Prioritization that has thus far successfully been implemented with an updated Strategic Plan in 2017
- Member of the IEEE Expense Report Platform AdHoc to help test and review the Concur Expense Reporting tool that was successfully implemented in 2018
- Member of small committee to develop IEEE's Volunteer Leadership Training program that successfully rolled out as a pilot in 2013 and as a regular program in 2014
- Received three Region 6 Director's Special Awards for dedicated and valuable support to the region as its long-time secretary, efficient meeting facilitator, and meeting planner, as Treasurer in developing an efficient budget, tracking, and disbursement system for audits, and innovative leadership and onsite support for over 100 region activities
- GOLD Achievement Award for initiating collaboration and bridging gap as the liaison between Standards Association and GOLD, one of the last IEEE entities without a GOLD presence.

Statement

In uncertain times, people need an organization to provide alternative life experiences and something reliable. I believe IEEE Region 6 is that brand that will serve the student and professional engineering members. The members create these experiences and hold regular events and meetings. My relationships with these members and vast IEEE and professional experience will enable IEEE Region 6 to be the vocal cheerleader of innovation, collaboration, boldness, member satisfaction, and most of all, fun!

I have gotten to know the region well and want to return the favor by leading it forward by growing our successful conferences and attracting new and diverse volunteers to think outside the box and be our new leaders of tomorrow.

As IEEE Region 6 Director, I will actively:

- Engage local volunteers & members and industry
- Deploy effective virtual interactions and connect with members
- Fund professional, government, and student activities
- Support smaller sections, Young Professionals/Women in Engineering, and student branches
- Recognize people/groups who use their IEEE superpowers for good
- Most importantly: Listen.

For more details, please visit tamashiro4region6.blogspot.com.

CHRIS R. GUNNING
(Nominated by IEEE Region 6)

Embedded Software Architect
HP, Inc.
Boise, Idaho, USA
https://www.linkedin.com/in/chris-gunning-6755b4/

Chris is a senior software architect at HP, Inc. in Boise, Idaho working on MFP and printer product development. He has been with HP for over 25 years leading, training, and working with multi-discipline teams and external partners to deliver products that create business value and delight customers. Prior to that, he served ten years as a US Air Force commissioned officer in a variety of engineering positions in Dayton, Ohio and Albuquerque, New Mexico. He is an inventor on twenty U.S. patents, primarily in hardcopy device technology and device security.

Chris holds a B.S. in Computer Science and Engineering from MIT and an M.S. in Electrical Engineering from Stanford.

Chris will be retiring from HP in 2020.

Chris lives in Boise with his wife and a very spoiled cat. They have three grown daughters. In his free time, he enjoys alpine skiing, road and mountain biking, and camping.

IEEE Accomplishments and Activities
(S'86-M'86-SM'10)

Committees/Board
- Member, IEEE MGA IT Coordination and Oversight (ITCO) Committee – 2020-Present
- Member, IEEE MGA vTools Committee – 2018-2019
- Chair, OU Analytics User Group – 2018-Present

Region
- Chair, IEEE Region 6 Northeast Area – 2015-2017
- Vice Chair, IEEE Region 6 Northeast Area – 2013-2014
- IEEE Region 6 IEEEXtreme Coordinator – 2018-Present
- IEEE Region 6 OU Analytics Coordinator – 2018-Present

Section
- Chair, IEEE Boise Section – 2010-2011
- Membership Development Chair, IEEE Boise Section – 2019
- PACE (Professional Activities Committees for Engineers) Chair, IEEE Boise Section – 2014

- Secretary, IEEE Boise Section – 2009

Society Chapter
- Chair, IEEE Boise Computer Society – 2009, 2014-2015
- Vice Chair, IEEE Boise Computer Society – 2014-2018
- Secretary, IEEE Boise Computer Society – 2011-2013
- Treasurer, IEEE Boise Computer Society – 2007

Major Accomplishments
- Founded the IEEE OU Analytics Users Group in 2018, which I continue to chair today.
- Developed and presented training courses on using vTools and related tools at region, area, and section level, including creation of recorded online training.
- As past Boise section chair and membership development chair, exceeded section goals for membership retention and recruitment and section activities including STEM and community outreach activities.
- While Region 6 Northeast Area chair, I was a strong champion of the Chapter Recording Initiative from its introduction and I trained numerous groups and created how-to guides for those who want to record events. The Boise organizational units and Region 6 Northeast Area were among the most prolific contributors to the Chapter Recording initiative. The Boise section carries this on today with contributions of locally-produced material to IEEE.tv.

Statement

As an IEEE volunteer I've developed hands-on leadership skills to achieve results through fellow volunteers and IEEE staff, represent IEEE to the local and global community, gain consensus among diverse groups, and manage tight budgets and challenging schedules.

To serve IEEE members of Region 6, my priorities would be to:

1. **Improve member engagement.** We must deliver tangible value to our members. The region can help our sections and chapters provide valuable educational, networking, and career development opportunities. Our region conferences create collaboration and expand knowledge for the benefit of humanity.
2. **Enhance the volunteer experience.** We need to provide our volunteers with the tools, resources, and training to enable them to more efficiently and effectively to do their jobs.
3. **Expand collaboration between sections, chapters, and student branches.** When they work together, they provide increased value to members.
4. **Promote diversity and inclusion.** IEEE recognizes that open, inclusive environments improve our reach and vitality. We must lead by example within IEEE and as technical leaders where we work.

VINCENZO PIURI
(Nominated by IEEE Region 8)

Professor
University of Milan
Milano, Italy
VincenzoPiuri.org

Vincenzo Piuri (IEEE Fellow, 2001) is Professor of Computer Engineering at University of Milan, Italy (since 2000). He has been Associate Professor at Politecnico di Milano, Italy (1992-2000), visiting professor at University of Texas at Austin, USA, and visiting researcher at George Mason University, USA. He founded a start-up company for industrial intelligent systems.

His research and industrial interests are: artificial intelligence, intelligent systems, machine learning, pattern recognition, signal/image processing, biometrics, measurement systems, industrial applications, IoT, and cloud computing. He has published 400+ research papers in international journals, conference proceedings, and books.

He has received several awards for scientific contributions and IEEE service. He is an IEEE Fellow, ACM Distinguished Scientist, IEEE-HKN Member, and Honorary Professor at five universities in Europe, China, India, and Japan. He is an active Member of CIS, CE Soc, ComSoc, CS, CSS, EMBS, IAS, IES, IMS, PES, PHOS, RAS, SMCS, SPS, BIOMC, SYSC, and WIE.

IEEE Accomplishments and Activities
(S'84-M'86-SM'96-F'01)

In his 36 years of continuous and active service, Vincenzo Piuri has been involved in many activities and at many levels, strongly promoting a holistic, cooperative, and inclusive view for *One IEEE*, with a strategic vision and consensus building for effective results.

- **Management:** IEEE Vice President Technical Activities; IEEE Board of Directors (four years); Committees of Member and Geographic Activities Board and Educational Activities Board; Technical Activities Board, Publication Services and Products Board, and their Committees; Societies and Technical Councils (President; Vice President Membership, Publications, Education); Chapters; Student Branch.
- **Strategic planning:** Served/led in IEEE, MGA, TAB, and PSPB planning; encouraged cooperation and outreach among organizational units; promoted financial transparency.
- **Technical activities:** Chaired, co-founded, or promoted several technical committees (in CIS, CS, IMS, SYSC, BIOMC); promoted emerging

technologies; founded the IEEE Environmental Engineering Initiative.
- **Conferences:** Organized 80+ events, including Smart World Congress (2018, 2017, 2016, 2015), WF-IOT (2016, 2015), SSCI (2013, 2011, 2009), I²MTC (2019, 2010, 2009, 2004), IJCNN (2010, 2009, 2000).
- **Publications:** Editor-in-Chief (ISJ); Associate Editor (T-C, T-CC, T-NN, T-IM); nurtured new publications (CI-M, T-AMD, T-CIAIG); promoted development of existing journals (T-IM, T-NN, T-FS, T-EC, ISJ) to address industry needs.
- **Educational activities:** Established a certification program and summer schools; delivered tutorials at conferences, on-line, and in the IEEE e-Learning Library.
- **Members and community services:** 2017 IEEE Sections Congress (Program Chair); promoted new networking events; started volunteer training programs in technical activities; founded or promoted foundation of a Section and 35+ Chapters worldwide.
- **Inclusivity and diversity:** Strongly promoted inclusivity for underserved groups (especially young professionals and women) and geographical areas; contributed to industry outreach; developed activities for entrepreneurs.
- **Awards services:** IEEE Awards Board; Technical Field Awards Committees (Chair, member); proposed several new awards.

These activities gave him a deep understanding of IEEE and the needs of our scientific and professional community.

Statement

IEEE is uniquely positioned as a global leader in science, technology, and innovation.

Together, we can timely understand emerging needs in our Region, further grow as premier reference, and enhance our profession by:

- **identifying flexible and sustainable membership models,** with fees proportional to the average income in our field in each Country, personalized membership benefits, and more focus on the young generations;
- **continuing to be the trusted source for high-quality knowledge,** by nurturing technical activities and conferences, focusing on emerging technologies, providing practical knowledge for professionals, and expanding continuing education;
- **supporting underserved groups and geographical areas,** by facilitating the access to knowledge and education, promoting soft skills and mentoring services, supporting entrepreneurship, expanding services for professionals and industry, and cooperating with Societies/Technical Councils and national associations.

I am fully committed to serve the IEEE members, our Region and our community, with strategic vision, galvanizing enthusiasm, and catalyzing all rich and diverse competences. A Region 8 and an IEEE in which everybody finds value and feels proud to be. **An IEEE by people for people.**

IGOR KUZLE
(Nominated by IEEE Region 8)

Full Professor and the Head of the Department
Department of Energy and Power Systems
University of Zagreb
Faculty of Electrical Engineering and Computing
Zagreb, Croatia
http://igorkuzle.org/

Igor Kuzle (born 1967) is a Full Professor and the Head of the Department of Energy and Power Systems at the University of Zagreb Faculty of Electrical Engineering and Computing (https://www.fer.unizg.hr/en/igor.kuzle). Since 2017, he has been an associate member of the Croatian Academy of Engineering and a Licensed Engineer since 1994. He was the project leader for more than 80 technical projects for utilities and industry.

He is a member of 8 journal editorial boards, and he served as chairman of 5 international conferences and delivered more than 20 keynote lectures. Prof. Kuzle was awarded the highest Croatian National Science Award in the year 2018 for his outstanding contribution in the field of smart grid. Also, the Croatian Academy of Sciences and Arts awarded him for his excellence in the field of integration of renewable energy sources in the year 2019. He is/was a project coordinator several scientific projects.

IEEE Accomplishments and Activities
(S'95-AM'96-M'03-SM'04)

Serving in numerous positions throughout IEEE has afforded me an inside look into what our members and volunteers really need. I demonstrated a successful organization of IEEE R8 flagship conferences EUROCON 2013 and ENERGYCON 2014 and successful proposal for the first IEEE Milestone in Croatia. While I was serving as the IEEE Croatia Section Chair (2009-2012), the membership in the Section increased rapidly from 500 members and reached 746 members at the end of 2012. During my serving (2012-2015) as a chapter chair, IEEE PES Chapter of Croatia Section received the PES High Performing Chapter Program every year and won 2014 IEEE PES World Outstanding Chapter Contest. I received several IEEE awards for different accomplishments.

IEEE Activities

Major Board/Committee:
• 2017-2018, MGA Member Benefits Portfolio Advisory Committee

Region:
- 2017-present, Region 8 Awards & Recognition Subcommittee
- 2015-2016, Region 8 Vice-Chair - Technical Activities
- 2011-2017, Representative, Industry Application Chapters in Region 8
- 2010-2015, Representative, Power and Energy Chapters - Central Europe and Scandinavia
- 2009-2012, Region 8 Committee

IEEE Croatia Section/Chapters:
- 2017-2019, Chapter Coordinator
- 2013-2016, Chair, Section N&A
- 2012-2015, Chair, Power and Energy Society Chapter
- 2009-2012, Section Chair
- 2008-2011, Chair, Industry Applications Society Chapter
- 2005-2008, Section Vice-Chair

Student Branches:
- 2012-present, Branch Chapter Adviser, PES Student Chapter
- 2012-2017, Branch Chapter Adviser, IAS Student Chapter

Conferences (in last 5 years):

- General Chair:
  - IEEE SGSMA 2021, Croatia
  - IET MEDPOWER 2018, Croatia
  - IEEE ENERGYCON 2014, Croatia
  - IEEE EUROCON 2013, Croatia

- Member of Technical/Scientific/Steering Program Committee:
  - IEEE PEDG 2020, Croatia
  - IEEE ENERGYCON 2020, Tunisia
  - IEEE PES ISGT Europe 2019, Romania
  - IEEE EUROCON 2019, Serbia
  - IEEE PES ISGT Europe 2018, Bosnia and Herzegovina
  - IEEE ENERGYCON 2018, Cyprus
  - IEEE PES ISGT Europe 2017, Italy
  - IEEE EUROCON 2017, Macedonia
  - IEEE ENERGYCON 2016, Belgium
  - IEEE EUROCON 2015, Spain

Statement

During the 25 years of my IEEE membership I was involved in different IEEE activities. As a member of the MGA Member Benefits Portfolio Advisory Committee I recognize what benefits IEEE can provide to the members of R8. Some of them already exist for R1-R7 and could be included for R8 as well through Vienna office. These benefits include seamless access to scientific content, accreditation, career opportunities, and continuous education. My goal is to integrate/detect/follow/summarize best practices from different IEEE sources in order to provide better and efficient R8 functioning. The plan includes enabling closer collaboration across R8 sections and units to achieve synergy in different IEEE activities. The main focus will be on cooperation between IEEE R8 and industry, student and young professional activities and on increasing IEEE visibility in Africa.

CELIA SHAHNAZ
(Nominated by Petition)

Professor
Department of Electrical and Electronic Engineering
Bangladesh University of Engineering and Technology
 (BUET)
Dhaka, Bangladesh
http://www.celiashahnaz.com

Celia Shahnaz, SMIEEE, Fellow IEB, received Ph.D. degree from Concordia University, Canada and is currently a Professor, Department of EEE, BUET, Bangladesh since 2015.

She has published more than 150 international journal/conference papers. She is a recipient of the Canadian Commonwealth Scholarship/Fellowship and Bangladesh Academy of Science Gold Medal for her contribution in Science and Technology. Recently, her papers have received best paper awards in Biomedical Engineering tracks at TENCON 2017 and at IEEE WIECON-ECE 2016, in Humanitarian Challenge track at R10 HTC 2017.

She was the mentor of 1st/2nd prize winning projects in IEEE IAS CMD Contests (Robotics, Humanitarian) in 2017-2019, USA. She was the supervisor of 4th/5th rank winning teams in SPCUP competitions, ICASSP 2020 (Spain)/2015 (Australia). She has around 20 years of experience (more than 18 years as an IEEE volunteer) of leading impactful Technical, Professional, Educational, Industrial, Women Empowerment and Humanitarian Technology Projects at national/international levels.

IEEE Accomplishments and Activities
(S'02-GSM'06-M'10-SM'16)

IEEE Activities:
Committees/Boards:
2020 Member, New Initiative Committee
2020 Chair, Women in SIGHT Working group
2020-22 Member, WISP Committee
2020 Member, PELS TC5
2020 Member, WIE SM Elevation Drive
2017-20, PES WiP R10 Representative
2017, 2019 Communications Chair, IEEE SIGHT
2019-20 Member, WIE WePower Subcommittee
2017-18 Chair, WIE Workshops Subcommittee
Region:
2016 R10 WIE Coordinator
2017-18, 2015 Member, R10 Subcommittees (WIE, HTA, Education)
Section, Student branch (SB) and SB Chapters:
2018-2020 Chair, Bangladesh Section (BDS)
2017 Vice-Chair (Activity), BDS
2010-2015 Chair, WIE BD AG
2012-2013 Chair, BDS MD
2014-2020 Coordinator, SIGHT FLASH

2016-2020 Advisor, WIE BDS, BUET SB WIE AGs
2018-2020 Advisor, BUET IAS, RAS and SPS (2019-20) SB Chapters

Societies/Chapters:
2020 Lead, PELS TC5 Webinar
2017-2020 Chair, SPS and IAS (2018-2020) BD
2018-2020 Vice-Chair, RAS and SSIT BD
2020 Chair, 2019 Vice-Chair, EMBS BD

Conferences:
General Chair: TENSYMP 2020, WIECON-ECE 2019, 2018, 2016
General Co-Chair: R10 HTC, WIECON-ECE 2017
TPC Chair: WIECON-ECE 2015

Awards:
2019 R10 Humanitarian Activities Outstanding Volunteer Award
2016 MGA Leadership Award
2015 WIE Inspiring Member Award
2013 R10 WIE Professional Volunteer Award

Recent IEEE Accomplishments:

- As Bangladesh Section Chair, applied and won 2018 MGA Outstanding Large Section Award, founded/co-founded four Society Chapters.
- As Founder, IEEE WIECON-ECE 2015, Bangladesh, co-organized four versions in India and Thailand.
- As WIE Workshop Subcommittee Chair, coordinated 25 WIE Workshops and Panels in R10, R9, R7, R8, R3, R5.
- As PES WiP R10 representative, contributed as a speaker, Panelist in the 1st IEEE PES WiP Conference; a brief Session Speaker in IEEE Sections Congress 2017.
- As Communications Chair, IEEE SIGHT, launched Humans of IEEE SIGHT. The first SIGHT Twitter Chat Session Organizer in 2019.
- As 2016 R10 WIE Coordinator, encouraged formation of 3 Section WIE AGs (mainland China, Thailand), 58 SB WIE AGs in R10 (35.10% increase in membership growth).

Statement

For diverse R10, my concentration will be to create an intensive relationship with local leadership of all organizational units (OUs), such as Councils, Sections/Subsections, WIE, YP, LM AGs, Chapters, SBs, and SB Society Chapters to enhance member engagement, technical skill development, membership growth, and retention in all OUs. If Elected, as R10 Director, my priorities will be:

- **Enhancing Visibility of R10 Volunteers:** Launching IEEE R10 DAY Celebration and Humans of IEEE R10: to publish more R10 accomplishments in TA Spotlight, *The Institute*, *IEEE Women in Engineering Magazine*, etc.
- **Launching R10 Mentor and Mentee Program:** Designing Members' need based activities involving multiple OUs/ Technical Society Chapters. Capacity building for more quality conference organization in R10, such as IEEE Society Flagship conferences.
- **Elevating value of WIE, YP, LM Programs:** Introducing R10 WIE/YP/LM Distinguished Lecturer Programs and SM Elevation Drives to ensure their more presence in leadership.
- **Encouraging Industry-Academia Conclave:** Promoting Corporate membership development and creating opportunity for solving real life problems.
- **Incubating R10 humanitarian Projects to Product Design:** Boosting Social Entrepreneurship.

For more information, Please visit: http://www.celiashahnaz.com

NORLIZA M. NOOR
(Nominated by IEEE Region 10)

Professor Ts. Dr.
Razak Faculty of Technology and Informatics, and
Head of Electrophysiology Research Group
Health and Wellness Research Alliance
Universiti Teknologi Malaysia (UTM)
Kuala Lumpur Campus, Kuala Lumpur, Malaysia
http://norlizanoor.ieeemy.org

Norliza Mohd (abbreviated for Mohamed) Noor is a Professor in Razak Faculty of Technology and Informatics, Universiti Teknologi Malaysia (UTM), Kuala Lumpur Campus. She received her B.Sc. in Electrical Engineering from Texas Tech University in Lubbock, Texas, and Master (by research) and PhD both in Electrical Engineering from UTM. Her research is in machine learning and image analysis for medical and industry applications. Her current work concentrates on medical image analysis for lung diseases, calcification detection using IVUS images and handwriting recognition. She published many papers in journals and in indexed conference proceedings, and authored one academic book and three book chapters. Currently she is Head of the Electrophysiology Research Group under Health and Wellness Research Alliance, Universiti Teknologi Malaysia. She is also an internal auditor for UTM academic program, member of UTM assessors' panel for Programme Accreditation, and member of Malaysian Qualifications Agency (MQA) assessors' panel.

IEEE Accomplishments and Activities
(S'83-S'91-M'91-SM'03-GSM'08-SM'08)

COMMITTEES/BOARDS:
- IEEE Educational Activity Board (EAB) – Certificate Program Committee: 2019-2020
- IEEE Humanitarian Activity Committee (HAC) – Event Evaluation Committee: 2020
- IEEE Virtual Senior Member Review Panel: 2019-2020
- IEEE Educational Activity Board (EAB) – Student Educational Resources Committee (SERC): 2017
- IEEE Members Benefit Portfolio Activity Committee (MBPAC): 2017
- IEEE MGA GUOS Committee – Technical Chapter Representative: 2015-2016

REGION:
- IEEE R10 Individual Benefits & Services Coordinator: 2015-2016

MALAYSIA SECTION:
- Chair: 2013-2014
- Secretary: 1998-2001
- Treasurer: 2002
- Past Chair, Awards & Recognition: 2015-2016

MALAYSIA CHAPTERS:
- Founding Chair for SPS: 2002
- SPS Chapter Chair: 2002-2006
- SPS Past Chair: 2007-2013
- SPS-Executive Committee: 2019-current
- EMBS Chapter Treasurer: 2010-2012 and 2014-present

CONFERENCES:
- General Chair, 2023 International Conference on Image Processing (ICIP2023)
- IEEE SPS Flagship Conference, General Chair
- 2017 IEEE Region 10 Conference (TENCON2017), General Co-Chair
- 2014 IEEE Region 10 Symposium (IEEE TENSYMP 2014)

IEEE Accomplishments

Societies: Founding Chair for IEEE Signal Processing Society (SPS) Malaysia Chapter and achieved membership growth. Created the Image Processing, Image Analysis and Real Time Imaging (IPIARTI) Symposium which is a free event to SPS members. IPIARTI has been organised yearly since 2010 till present with an average of 100 participants (mainly student members). Led and won the bid for ICIP2023 so that it will be hosted by SPS Malaysia Chapter in Kuala Lumpur. One of the committee members when EMBS Malaysia Chapter was founded.

Section: Member/Volunteer for more than 30 years in the Malaysia Section serving almost all Section positions including Chair in 2013-2014. Highest membership growth in 2013-2014, created the IEEE National Final Year Project Competition for undergraduate student in 2013 and has since been organised yearly with an average 250 participants. Recipient of 2004 Best Volunteer Award.

Region: IBS Coordinator by encouraging Sections to create new members benefit for members in their sections.

Statement

Mission Statement:
- Increase the sense of belonging to IEEE by broadening activities and engaging members
- Bring value to IEEE membership – empower the region and sections to create extra value
- Increase volunteering opportunities for members
- Increase awareness towards IEEE humanitarian activities

Position Statement:
- If I am elected as the Region 10 Delegate-Elect/Director-Elect, my emphasis will be on membership engagement, growth, and value addition.
- I will increase member engagement by developing and managing R10 activities that will bring greater impact to IEEE members. These activities are an important factor in membership growth.
- I plan to increase the number of industry initiatives activities that will be organized in geographically distributed sections so that many members are able to participate with minimum travelling cost.

For more information, visit my personal candidate website: http://norlizanoor.ieeemy.org

SUPAVADEE ARAMVITH
(Nominated by IEEE Region 10)

Associate Professor
Department of Electrical Engineering
Chulalongkorn University
Bangkok, Thailand
http://www.supavadee.net

Supavadee Aramvith received the B.S. (first class honors) degree in Computer Science from Mahidol University in 1993. She received the M.S. and Ph.D. degrees in Electrical Engineering from the University of Washington, Seattle, USA, in 1996 and 2001, respectively. She joined Chulalongkorn University in June 2001. Currently, she is an Associate Professor at the Department of Electrical Engineering with specialization in Video Signal Processing. She has successfully advised 9 Ph.D., and 27 Master's graduates. She published 136 papers in International Journals and Conference Proceedings with 4 International Book Chapters. She has rich project management experiences as the project leader and technical advisors to the Thailand Government bodies in Telecommunications and ICT. She is very active in the international arena with leadership positions in international organizations such as JICA Project for AUN/SEED-Net, IEEE, IEICE, APSIPA, and ITU. She has received numerous domestic and international awards recognizing her outstanding performance.

IEEE Accomplishments and Activities
(S'96-M'01-SM'06)

IEEE Activities (selected):

COMMITTEES/BOARDS:
1. Voting member, Educational Activities Board (EAB) (2015, 2018-2020)
2. Chair, EAB Pre University Education Coordination Committee (2018-2019)
3. Chair, EAB Section Education Outreach Committee (2020)
4. Member, IEEE New Initiatives Committee (2019-2020)
5. Communications Chair, IEEE Humanitarian Activities Committee (2019-2020)
6. Member, IEEE Medal for Environment & Safety Technologies Committee (2018-2020)
7. Member, IEEE Awards Board Publicity & Presentation Committee (2020)
8. Member, EAB EPICS in IEEE Committee (2015-2017)
9. Member, IEEE WIE Committee (2015)
10. Member, EAB Section Education Outreach Committee (2011-2014, 2016)

REGION 10:
1. Region 10 Section & Chapter Committee Chair (2019-2020)
2. Region 10 Educational Activities Coordinator (2011-2014, 2016)
3. Region 10 Women in Engineering Coordinator (2015)

SOCIETIES:
1. IEEE Consumer Electronics Society Board of Governors member (2019-2020)
2. IEEE Signal Processing Society, Region 10 representative to Chapter's committee (2018-2020)

SECTION:
1. Member, Thailand Section Executive Committee (2007-2020)
2. Membership Development Chair (2017-2020)
3. Secretary, IEEE Thailand Section (2008-2010)

CONFERENCES:
1. General Co-Chairs, Region 10 SYWL Congress 2020
2. General Co-Chairs, IEEE ICCE-ASIA 2019
3. General Co-Chairs, IEEE WIECON-ECE 2018

IEEE Accomplishments:
My 25-year journey with IEEE started as a graduate student member. Over a decade, I have successfully spearheaded and delivered high impactful member engagement, and global and regional initiatives in various IEEE boards and committees. I have gained strong expertise and experience in managing global and regional IEEE programs with the recent recognitions from IEEE.

1. 2019 MGA Leadership Award for the outstanding leadership and contributions for delivering joint MGA-EAB educational activities to benefit the members in Region 10.
2. 2018 Outstanding Section Membership Recruitment and Retention Performance for Thailand Section in the capacity of Membership Development chair.
3. 2017 HKN Outstanding Chapter Award for HKN Mu Theta Chapter at Chulalongkorn University where I serve as faculty advisor.

Statement

I have been trusted by Region 10 Directors to serve in the Region 10 EXCOM for 8 years. This allows me to comprehend the region and its diverse nature.

If elected as Region 10 Director-Elect, I will commit myself to bring in my globalized experiences with transformational leadership to the "ONE" region 10 vision where collaborative partnerships take place for the mutual benefits toward sustainable growth of the region.

My priorities are:

1. Work closely with IEEE major boards and committees for better value added and localized membership model, products, and services that benefit members.
2. Synergize complementary strengths and collective efforts of sections, chapters, and volunteers through the new collaborative platform and grant.
3. "Groom to grow" - Develop programs to empower student chapters, YP, WIE to become the next generation leaders.
4. Support the impactful implementation of humanitarian projects, educational activities, industry engagement through quadruple helix framework.
5. Allocate resources to sections/chapters mentorship and revitalized plan.
6. Ensure inclusivity and diversity in Region 10 governance.

CHUN CHE "LANCE" FUNG, PHD
(Nominated by IEEE Region 10)

Emeritus Professor
Discipline of IT, Mathematics & Statistics
College of Science, Health, Engineering and Education
Murdoch University
Murdoch, Australia
Lancefung.net

I was trained and worked as a Marine Radio and Electronic Officer in Hong Kong during the 70's. I graduated with a B.Sc. Degree with First Class Honours and a M.Eng. Degree from the University of Wales, UWIST. My PhD Degree was awarded by the University of Western Australia, under the supervision by the late *Professor Kit Po Wong*. I have taught at Singapore Polytechnic, Curtin University, and Murdoch University, where I was appointed Emeritus Professor in 2015. My roles have included Associate Dean of Research, Postgraduate Research Director, and Director of the Centre for Enterprise Collaborative in Innovative Systems. I have supervised to completion over 31 doctoral students and published over 330 academic articles. My contributions can be viewed at IEEE Xplore, ResearchGate, Google Scholar, etc. I am continuing my research and supervision of postgraduate students and my motto is "Learning has no Boundary". My profile locates at: http://profiles.murdoch.edu.au/myprofile/lance-fung/

IEEE Accomplishments and Activities
(M'93-SM'06)

List of IEEE Activities in various committees:

- IEEE Region 10 Education Activities Committee (Chair 2019-2020)
- Section Education Outreach Committee (Member 2019-2020)
- IEEE New Initiatives Committee (Chair 2019, Past-Chair 2020, Member 2014-2018)
- IEEE Conference Quality Committee (Chair 2018, Past-Chair 2019-2020, Member 2015-2017)
- IEEE Technical Program and Integrity Committee (Chair 2017-2018, Past Chair 2019, Member 2015-2016)
- IEEE Conference Finance Committee (Member 2019-2020)
- Valid Scientific Content Ad-Hoc Committee (Member 2020)
- IEEE Strategy and Alignment Committee (Member 2019)
- IEEE Humanitarian Activities Committee (Liaison 2019)
- IEEE Region 10 Conference Quality and Management Committee (Chair 2018)
- Conference Branding Ad-Hoc (Member 2017)

- Conference Quality Policies Ad-Hoc (Member 2017)
- IEEE Systems, Man and Cybernetics Society Board of Governors (Member-At-Large 2010-2015)
- IEEE Global Strategy Ad-Hoc Committee (Member 2015)
- Member, IEEE Signature Programs Evaluation Committee
- IEEE WA Section (Chair 2001-2002, 2005-2006, 2013)
- IEEE Australia Council (Chair, 2013-2014)
- Student Counsellor at Curtin University and Murdoch University
- Reviewer and Member of Technical Program Committee and Editorial Committee for many IEEE conferences, editorial boards and grant review panels.

I have accumulated twenty-five years of experience through dedicated services as member of executive committees in the IEEE WA Section, Australia Council, and Region 10 Executive Committee (2007-2008 and 2018-2020). I served six years (2010-2015) as Member-at-Large of the IEEE SMC Society Board of Governors, Chair of SMCS Chapters Coordinator and Membership Development Committee, responsible for the recruitment and growth of SMCS memberships. As Member and Chair of TPIC and CQC, I oversee quality of technical programs in IEEE conferences and actively promote the importance of Conference Quality in R10. As Chair of NIC, I established and promoted the USD$1 Million Challenge Call for New Initiatives proposals in 2019. With great appreciation to IEEE, I am honoured to have received the **2015 IEEE Region 10 Outstanding Volunteer Award** and the **2000 IEEE Third Millennium Medal**.

Statement

Sixty percent of the world's population reside in the Asia-Pacific Region, as well as one third of the IEEE members. R10 has approximately 140 thousand members in 59 Sections and various Operational Units, the number is growing continuously.

2020 has witnessed a major challenge to the Region, and I believe IEEE members are capable to develop solutions to many problems. Given the opportunity to serve as R10 Director, I will dedicate my time, professional experience and practical knowledge to:

- Support innovative projects to develop **Local Solutions** in alignment with IEEE Mission, Vision and Strategic Plan.
- Actively represent the **Voices and Concerns** from R10 in IEEE Boards and Committees.
- Develop strategies to improve the **Values, Benefits and Experience** for R10 memberships.
- Encourage R10 volunteers to **participate in decision making**, and **public recognition** of their contributions.
- Establish **Collaborative Schemes** between students, YP, WIE and Higher grade members through networking and joint projects.

Serving and leading R10 requires dedication, commitment, time, experience and passion. I am prepared for the Call. Your support is greatly appreciated!

STEPHEN D. DUKES
(Nominated by IEEE Standards Association)

President
Dreamerse Inc.
Lake Stevens, Washington, USA

Stephen Dukes is an executive with forty-three years of business and technical leadership. Dukes possesses diverse experience from Fortune 500 companies to start-ups. He serves or served on corporate boards of directors and technical advisory boards. 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 eleven years. Dukes holds an Executive Masters Professional Director Certification conferred by the American College of Corporate Directors, a director education and credentialing organization and has a B.S. in Mathematics, University of Washington. Dukes is an IEEE Life Fellow.

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)
- Vice Chair, IEEE Standards and Standards Innovation SMDC (2020)
- 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 Roadmap Committee (2020)
- 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, 2017-2020)
- IRDS Systems and Architecture Vice Chair (2018-2020)
- TAB Representative to IEEE-SA Standards Board (2013-2016, 2019)
- Digital Reality Initiative Co-Chair (2015-2020)
- Conferences Finance Committee (2019-2020)
- FDC Representative to TAB Committee on Standards (2020)
- 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 (2013-2020)
- Fellow Committee (2009-2016)
- 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 industry.
2. Established stronger relationship between the IEEE-SA and the IEEE Technical Activities Board.
3. Contributed to the development of the CAG Industry Affiliates Network to create new industry standards.
4. Led efforts establishing procedures to accelerate new standards within one year for rapidly developing technologies for industry, e.g., P2050-2018 IEEE standard.
5. Contributed in developing IEEE-SA Strategic and Emerging Standards Committee (SESCom).

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 we create new relationships between industry, IEEE Technical Activities, IEEE-SA activities, and external technical associations and collaborate with them to develop new standards. To achieve this, we must strengthen communication and collaboration between TA and SA and consider methods for SA to provide financial support for new society standards. Address new market dynamics emphasizing openness, crowd-sourced innovation. IEEE-SA is well-positioned to establish itself as a leader in open source standards. 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.

MEHMET ULEMA
(Nominated by IEEE Standards Association)

Professor of Computer Information Systems
Manhattan College
Riverdale, New York, USA

In addition to his academic experience, Mehmet held management and technical positions in AT&T Bell Labs, Bellcore and Daewoo involved in telecom projects. Mehmet has been actively involved in standardization in ITU, TIA, ATIS, and IEEE. Currently, he is a member of the IEEE-SA Standard Board and the coordinator for the SCCs. He chairs a Standard Committee on Network Softwarization and Virtualization. Mehmet served as the Director of Standards Development in ComSoc, and played a major role in involving ComSoc in IEEE standards. He has been on the editorial board of several major journals. Previously, he held many leadership positions in ComSoc. He also served in leadership positions in major IEEE conferences including GLOBECOM and ICC. Mehmet has received several awards including IEEE Third Millennium Award and ComSoc Harold Sobol Award for exemplary service to conferences. Mehmet received his PhD from Polytechnic Institute, Brooklyn and BS/MS from Istanbul Technical University.

IEEE Accomplishments and Activities
(S'77-M'80-SM'93-LS'16)

Standards:
- IEEE-SA Standards Board (2016-2018, 2020)
- New Standards Committee (NesCom) (2018-2019)
- Audit Committee (AudCom) (2017-2020)
- Industry Connections Committee (ICCom) (2019-2020)
- Standards Education Committee (SEC) (2017)
- Review Committee (RevCom) (2017-2019)
- Coordinator, Standards Coordinating Committees (SCC)
- Director, ComSoc Standards Development Board (2014-2018)
- Chair, COM/NetSoft Standard Committee (2018-2020)
- Chair, P1903, Next Generation Service Overlay Networks (2012-2020)
- SA representative to IEEE Future Directions Committee (2019-2020)
- Co-Chair, Standards Working Group, IEEE Future Network Initiative (2018-2020)
- SA representative to Standardization Coordination Group (2015, 2016)

Communications Society (ComSoc) Activities:
- Director, Standards Development (2014-2017)
- Director, Membership Development Programs (2012-2013)

- Chair, Distinguished Lecturer Selection Committee (2010-2012)
- Chair, Humanitarian Communications Technology Committee (2009-2012)
- Co-Founder and Chair, Technical Committee on Information Infrastructure (2003-2005)
- Chair, Radio Communications Committee (1999-2001)
- Vice-chair, Technical Activities Council (2010-2014)
- Vice-chair, GLOBECOM and ICC Conferences Technical Committee (2008-2010)

Conferences/Workshops:
- **General Co-Chair:** IEEE Network Operations and Management Symposium (NOMS) (2008, 2016); IEEE Black Sea Conference on Communications and Networking (2013, 2014, 2017, 2020); IEEE Symposium on Communications and Computers (2012); IEEE Workshop on Rural Communications (2012)
- **Technical Program Chair:** IEEE Global Communications Conference (GLOBECOM) 2009; IEEE Global Information Infrastructure Symposium (GIIS) 2009; IEEE International Communications Conference (ICC) 2006; IEEE Consumer Networking and Communications Conference (CCNC) 2004; IEEE NOMS 2002; IEEE Symposium on Computers and Communications (ISCC) 2000
- Executive Chair, Industry Forums and Exhibits, IEEE GLOBECOM 2019
- Co-Chair, Tutorials – IEEE NOMS 2014
- Co-Chair, Workshops – IEEE NOMS 2012
- Co-Chair, Keynotes and Distinguished Expert Panel – IEEE NOMS 2004, IEEE/IFIP IM 2015
- Finance Chair, IEEE NOMS 1998 and IEEE NOMS 2000

Editorial Board:
- Associate Editor, *IEEE Journal on Internet of Things* (2014-present)
- Associate Editor, *IEEE Transactions on Network and Services Management* (2004-2009)
- Chair of the Steering Committee responsible for the management of this journal (2009-present)
- Associate Editor, *IEEE Communications Magazine* (1994-2006)
- Co-editor, IEEE Press-Wiley Book series on Network and Service Management (2018-2020)

Statement

While IEEE SA has a world-class platform for creating standards, industry requires other kinds of consensus building tools in today's fast-paced competitive environment. These include activities like open-source software, industry alliance incubation, and post-standard conformance and compliance. In addition, it is critically important to reach out to vertical industries directly in order to build on the strengths in SA's corporate/entity membership program. If elected, I will work hard to support the SA to expand its activities in the areas I mentioned above. With my academic and industrial experience as well as my experience in standardization, I am confident that I will contribute significantly to support IEEE SA in fulfilling its mission.

HAIYING LU
(Nominated by IEEE Standards Association)

Senior Engineer
China Electronics Standardization Institute (CESI)
Beijing, China

Haiying Lu is currently holding a position of senior engineer of China Electronics Standardization Institute (CESI). He is a veteran pioneer in establishing and developing standards in the electronics and information technology domains. He has rich experience in the standardization of drone applications and regulations. As an active industry player, he has successfully led and organized several series of national standards and industry standards. As head of standardization work, he participated in the national science and technology research and development key project. He is also a member of ISO/IEC JTC1 Emerging Technology and Innovation (JETI), Chief Editor of the technical trend report Drone, Achievements and Impacts of IT on AT (aviation technology), Co-editor of ISO 22460-2 Drone Identity Module. Furthermore, he holds various leading positions such as the deputy leader of SAC/TC 28/SC 17/WG 12, the chair of IEEE 1937.1 standard working group and a member of IEEE NesCom (2020).

IEEE Accomplishments and Activities
(M'18)

As chairman of the IEEE 1937.1 working group, he initiated and facilitated IEEE SA drone application standardization work, giving full play to the drone industry in China and the advantages of a large number of drone applications. The working group members include the world's largest consumer drone manufacturer DJI, the world's largest drone user State Grid Corporation of China (SGCC), the world's largest Telecom operator China Mobil, and China Academy of Science, Beijing University and other important academic institutions. Within two years the working group developed the technical applications and regulations related standards of drones, such as drone payload interface, drone application framework, and drone low-altitude route planning.

As a member of IEEE NesCom, he proposed to strengthen the communication and coordination between the wide range of societies, actively promote the

establishment of IEEE new standards projects, and played a promoting role in the establishment of standards in emerging fields such as blockchain and drones.

Meanwhile, with IEEE 1937.1 standard coverage, ICAP is to be carried out to form breakthrough conformity assessment work in drone related fields, which will greatly influence the development of the industry and greatly expands the influence and authority of IEEE in emerging industries. For more information about IEEE 1937.1, visit https://sagroups.ieee.org/1937-1/

Statement

Being an active standards developer for most of my career, I am attracted by IEEE SA's vision and mission, a world-class standards development organization that provides a high quality, market-relevant standardization environment, respected worldwide; and that advances "technology for humanity". This is highly consistent with my desired goal in my mind. It will be great to be part of such a well-known worldwide organization and to contribute all my experience and expertise as a standards professional. It will be my pleasure to work with IEEE SA.

With the rapid development of China in recent years and with various vigorous technology developments, standardization demand is incredible. In addition, IEEE is the biggest expert group in the world and has the widest field of technical experts. With the requirements of the rapidly developing Chinese industry, I am willing to become the promoter of all this considerable cooperation.

SUBHAS CHANDRA MONDAL
(Nominated by IEEE Standards Association)

Wipro Fellow and Chief Architect - 5G
Wipro Limited
Bangalore, India
https://www.wipro.com/blogs/subhas-mondal/

In my current role, I am the chief architect of 5G at Wipro Limited to drive the 5G technology strategy of Wipro across the organization. I have over 28 years of Industry experience in the Communication R&D domain and have worked across the entire spectrum of technologies starting from Wireline Telephone switching and Signaling, IMS, Wireless communications – 2G/3G/4G/5G, AI for networking, LiFi, Optical camera communication, etc. I have performed various roles – hardware and software developer, architect, principal architect, chief architect, project manager, technical manager, Research lead for academic collaboration, Technical presales, head of offshore development center for multiple customers, practice head for both wireline and wireless portfolios and head of solutions portfolio in communication domain. I hold 5 granted patents and have over 10 patent applications under process.

IEEE Accomplishments and Activities
(M'07-M'14-M'15-M'17-SM'18)

Following are my key accomplishments:

1. IEEE Senior Member

2. Distinguished speaker in IEEE COMSOC Bangalore chapter

3. Executive committee member of IEEE COMSOC Bangalore chapter

4. Chair of the IEEE Industry Connections program "Intelligent Transportation Systems (ITS) Testbed for Dynamic Road Traffic Management and Control at Electronic City-Bangalore INDIA"

5. Member of organizing committee for multiple IEEE Conferences and workshops including 5GWorldForum, IEEE International Conference on Advanced Networks and Telecommunications Systems (ANTS),

International Conference on Communication Systems & Networks (COMSNETS), International Conference on Electronics, Computing and Communication Technologies (CONECCT), etc.

6. Speaker in multiple national and international technology workshops and tutorials organized by IEEE

Statement

As a passionate technologist, I remain committed to create technologies for societal good in a cost-effective manner. The world is digitally divided with varying degrees of maturity of ICT technology, which is strongly felt during the trying time that we are going through under the COVID-19 pandemic. There is a dire need to make the technology affordable and inclusive for a greater societal good. I am passionate about digital/technology inclusion of the underserved and I promise to be a catalyst for creation of a just society for inclusive prosperity. As a member-at-large, I would like to catalyze collaborative Global working across the ecosystem by bringing perspectives from my region and make a difference to the underserved through standardized technologies.

F. D. "DON" TAN
(Nominated by IEEE Technical Activities)

Distinguished Engineer and Senior Staff Manager
Northrop Grumman Space Systems
Irvine, California, USA
http://www.don-tan.org/

Don is a Distinguished Engineer/Senior Staff Manager with Northrop Grumman Space Systems. He earned his PhD from Caltech, and is an IEEE fellow. He is a chief technologist, a researcher in electronics and energy systems, and a recognized authority in space power management.

He has delivered about 60 keynotes and invited talks, and served on many national and international funding review and prestigious position selection committees. His Adiabatic Point-of-Load Technology attracted US$15M customer funding in 5 years and his 4 power product lines value at greater than US$200M. His double forward and electric propulsion technologies were licensed to major companies.

His major awards and recognitions include IEEE PELS Harry A. Owen, Jr. Distinguished Service Award (2017), Engineering Choice Award (2014), Distinguished Engineer (2011), CIE-USA Asian American Engineer-of-the-Year (2010), AIAA Space System Award (2008), JANNAF Outstanding Achievement in Spacecraft Propulsion (2007), TRW Distinguished Patent Award and President's Award for Innovation (2002).

IEEE Accomplishments and Activities
(S'89-M'95-SM'98-F'07)

BOARD/COMMITTEE: IEEE BoD Ad-Hoc: Next-Gen Finance, 2020; New Membership Model, 2019. IEEE/TAB Ad-Hoc on Financial Transparency, 2016-present; IEEE Transportation Technologies Award, TFA Committee Member/Chair, 2017-present; IEEE Board of Directors, 2017-2018. TAB/PSPB Products Committee, 2016. TAB Awards and Recognition Committee (TABARC), 2015, and Technical Activities Board (TAB), 2013-2014.

COUNCIL/SECTION/CHAPTER: LA Council Chapter Chair/Vice-Chair, 1996-2001. PELS Regional Distinguished Lecturer, 2001-2004.

SOCIETY: IEEE Power Electronics Society (PELS): Long Range Planning Committee Chair, 2017-2018; Nomination Committee Chair, 2015-2016; President, 2013-2014; EiC (founding), *IEEE Journal of Emerging and Selected Topics in Power Electronics (JESTPE)*, 2013-2018; Vice President for Operations, 2009-2012; Vice President for Meetings, 2000-2004.

IEEE CONFERENCES: APEC, Steering Committee/General/Program/

Assistant Chairs, 1996-2001; **ECCE**, Steering Committee, 2009-2018; **EPE**, 2010-2018; **ECCE Asia Series (IPEC, IPEMC, ICPE)**, 2011-2018; **PEDG**, Steering Committee, 2009-present; **Inaugural WiPDA**, Honorary General Chair, 2013; **PwrSoC**, Founding Steering Committee Member, 2012; **WoW**, Steering Committee Chair, 2014-present; **eGrid (eT&D)**, Steering Committee Chair, 2015-present.

STANDARDS: DoD/IEEE Joint Working Group on Open Systems, Chair, 1997-2004. IEEE Standards Association Balloting Groups for IEEE stds 1515/1573.

MAJOR ACCOMPLISHMENTS

1. As PELS President, launched three publications and four conferences/workshops, ensuring PELS growth and leadership in emerging technologies.

2. As the founding EiC, launched *IEEE JESTPE* with unprecedented speed and success (Launch in July 2013, indexed in January 2015, and achieved impact factor of 5,972 in 2019).

3. As Director/Past Director, chaired TAB and IEEE BoD Ad Hoc Committees on Financial Transparency and on New Membership Models. Efforts have enhanced transparency and reduced cost.

4. As PELS VP Operations, revitalized technical activities by strategically positioning PELS for robust growth (one of the fastest growing societies).

5. As president from industry, established PELS Inaugural Industry Advisory Board. Also transitioned TAB Transportation Electrification Initiative, under Future Directions, to Transportation Electrification Community (TEC has 7 societies as regular members and 15 societies as associate members).

Statement

It is an honor and a privilege to be a candidate for VP Technical Activities.

Technical Activities is crucial to IEEE. We will adhere to the principle of "Member-focused, volunteer-driven, and staff-supported organization." Having volunteered for 20+ years, I know that members and volunteers are the life blood of the IEEE. They deliver conferences and publications that distinguish IEEE as a global power house in membership engagement, technical innovations and technical prestige.

If elected, we will strive to be more efficient, more effective and more inclusive to maintain our leadership as a professional organization and as a leading technical information curator. We can accomplish these by communication, transparency and openness and by enhancing diversity and international participation, particularly in leadership positions.

If elected, we will work to address new challenges facing our technical societies by exploring more effective, cross-cutting technologies, and new products/services. We will engage TAB Division Directors to work more effectively within TAB and to better represent TAB interest in the IEEE Board of Directors. We will continue to be the thought leader in future technology, to streamline bureaucracy and enhance transparency, and to control infrastructure and indirect expenses. Together, we will keep IEEE/TAB grow with technical excellence and prestige.

BRUNO MEYER
(Nominated by IEEE Technical Activities)

Consultant in Energy and Telecommunications, and
Senior Executive Officer RTE (Retired 2020)
RTE is the French Power Grid Operator
Paris, France

Bruno Meyer, now a consultant, is a retired Senior executive officer at RTE, the French Power Grid Operator (2016-2019) and former CEO of ARTERIA, a telecommunications company (2011-2015).

At EDF, one the world's major power utilities (1985-2010), he served as Senior executive (1995-2010). Other EDF leadership positions included: VP R&D Transmission & Distribution; Director Power Systems, Grid Technology, Markets & Economics; Director Market Research & Customer Satisfaction; Director Power Systems Economics & Planning.

Board member and then president of Joint Venture between EDF, Schneider Electric and Grenoble Institute of Technology IDEA (Future of Power Distribution) (2001-2003).

Author or co-author of over 50 papers/conference presentations including a book, "*Power System Simulation*."

International experience includes: Consulting and industrial partnership in over 10 countries in Europe, North and South America, Japan, China and Africa.

He received Ph.D. Edinburgh University (UK), M.Sc. University of Sao Paulo (Brazil), and B.Sc. University of Campinas (Unicamp) (Brazil).

IEEE Accomplishments and Activities
(M'90-SM'97-F'08)

IEEE COMMITTEES/BOARDS:
- IEEE Board of Directors (2018-19)
- Division VII Director (2018-19) and Director-Elect (2017)
- Technical Activities Board (2018-19)
- Technical Activities Management Board (2019-20)
- MGA/TAB/SA Ad Hoc Committee on Sustainable Development Co-Chair (2020)
- Employee Benefits and Compensation Committee (2019-20)
- Publications and Services Committee (2019-20)
- Ad Hoc Committee on Diversity, Inclusion and Professional Ethics (2019-20)
- European Public Policy Committee (2019-20)
- TAB Financial Transparency Committee (2018-19)
- Entrepreneurship Ad Hoc Committee (2017)

- Member of the Jury for IEEE N3XT Entrepreneurship Events (2017-18)

SOCIETY: IEEE Power & Energy (PES)
- PES Governing Board (2017-19 and 2005-08)
- PES Women in Power Committee (2013-present)
- Distinguished Lecturer for PES on Smart Grids (since 2007)

REGION/CHAPTERS:
- PES Representative, Region 8 (2005-08)
- PES Representative, Western Europe Chapters (2001-04)
- PES Chapter Chair, France (1996-00)

MAJOR IEEE ACCOMPLISHMENTS:

Active in bringing forward industry realization within IEEE. I have encouraged industry participation in IEEE activities.

The new generation, students, Young Professionals are the future of IEEE. I have been present in several initiatives to increase their participation.

A strong believer of diversity and inclusion, I was an active supporter in this area. I have organized workshops, given keynote speeches worldwide and published in IEEE journals and magazines.

From a technical perspective, as a young researcher and group leader, my work to develop new types of simulators for power industry was recognized 15 years later with the elevation to the grade of IEEE Fellow "*for leadership in power system simulation, modeling and analysis*."

Statement

IEEE will undergo major changes. The 2020 pandemic will change the way organizations, industry, universities and people interact. I want TAB and IEEE to find new global ways of cooperation.

IEEE revenue will drop with Open Access. New sources of revenue are needed.

New technology is coming up fast. I want TAB to track them, and attract its main players.

I will intensify TAB initiatives on Sustainable Development following up the 2020 Joint Ad Hoc Committee on this crucial topic.

I will be proactive to attract new members coming from different fields and continents.

- **Be inclusive.** In terms of diversity and professional backgrounds.
- **Ensure industry participation.** Keep the right balance between industry, academics and governmental bodies.
- **Make sure IEEE members have a good view of TAB's activity.**
- **Make our conferences more attractive and enlarge their global impact.**
- **Push major new transverse technological issues.** Make priorities within TAB. Drop some topics when resources are scarce.
- **Develop new revenue sources.** This is key to survival of IEEE.

My personal way of working has always been collective and inclusive. In a volunteer organization, this is even more the case. A "VP" is chosen to serve its members. If elected, I certainly will.

DEBORAH M. COOPER, PE
(Nominated by IEEE-USA)

President/CEO
DC Associates, LLC
Reston, Virginia, USA
https://www.debcooper.org

Deborah M. Cooper is president and founder of an independent consulting firm specializing in Cybersecurity and has served on many industry and government advisory boards. Past positions include: Director, INFOSEC Business Development and Program Planning, Director of Advanced Technology, Director of Formal Methods at Unisys and System Development Corporation; and Principal, Cyber Technology at Booz Allen Hamilton. Cooper graduated with honors from UCLA. While studying for her doctorate, Cooper created a database management system adopted for use at all University of California campuses and was awarded a University of California Administrative Fellowship. In 1989, she received the Unisys President's Award for Technical Excellence.

Cooper is past IEEE Computer Society president, Division Director V, MGA Treasurer, and past board member of IEEE-USA, MGA, Technical Activities, Publication Services and Products and past guest editor for *IEEE Transactions on Software Engineering* and *IEEE Software*, and editorial board member for *IEEE Security & Privacy*.

IEEE Accomplishments and Activities
(A'87-SM'04-LS'19)

Cooper has been an active IEEE volunteer for over 35 years. She is known for her commitment to our members and dedicated volunteers, her collegial and innovative leadership, and producing results.

COMMITTEES/BOARDS:
- IEEE Awards Board Policy & Portfolio Review Committee, 2020
- TAB/PSPB Products and Services Committee (PSC), 2020
- IEEE-USA Non-Member Dues Revenue Opportunities Committee, 2019-2020
- IEEE NextGen Implementation Oversight Committee, 2019-2020
- Member and Geographic Activities (MGA) Operations Committee, 2017-2020
- IEEE-USA Committee on Communications Policy (CCP), 2013-2020
- IEEE Investment Committee, 2014, 2020
- MGA Board, 2011-2012, 2017-2019
- IEEE Committee on Contracting, 2019
- IEEE Subcommittee on Membership Price, Member Value and Base Dues, 2019
- MGA Treasurer and IEEE Finance Committee (FinCom), 2017-2019
- IEEE FinCom Financial Operations Manual (FOM) Rewrite Committee, 2018
- Chair, Funding IEEE and OU Projects/Initiatives (FIOP) Committee, 2017-2018
- IEEE FinCom Expense Committee, 2016-2017
- IEEE-USA Board, 2015
- Women in Engineering (WIE) Committee, 2007-2008, 2014-2015
- Publication Services and Products Board (PSPB), 2010
- IEEE IT Transition Committee, 2008-2010
- IEEE Strategic Planning Committee, 2009

- IEEE Public Visibility Committee, 2009
- IEEE Board of Directors, Division Director V, 2008-2009
- Technical Activities Board (TAB), 2006, 2008-2009
- IEEE Alternative Membership Models Committee, 2006-2009
- IEEE Employee Benefits and Compensation Committee, 2005

REGIONS/SECTIONS/CHAPTERS:
- Region 2 YP/WIE RISE Advisor, 2017
- Region 2 Technical Policy Issues Coordinator, Executive Committee (ExCom), 2010
- Region 9 Computer Society Chapters Summit Coordinator, 2006

SOCIETIES/COUNCILS:
- TAB Nominations & Appointments Committee, 2013-2014
- TAB Finance Committee, 2009-2011
- TAB Strategic Planning Committee, 2008-2010
- TAB Committee on Technical Co-Sponsorship, 2009
- TAB/MGA New Initiative on Marketing for Societies, 2008-2009
- Task Force on Vulnerable Societies and Councils, 2008
- TAB Business Model Task Force, 2008
- IEEE Computer Society President, 2006
- TAB Life Sciences Committee, 2006

CONFERENCES:
- Conference Revenue Opportunities (CRO) Committee, 2020
- Conferences Financial Management (CFM) Committee, 2019
- Technical Co-Sponsorship Committee, 2009
- IEEE Symposium on Security and Privacy Conference Committee, 1986-1994

Statement

Embracing Challenges and Innovating Opportunities

IEEE-USA is facing many challenges in the immediate future, with potentially significant financial impact. The current IEEE-USA Strategic Plan directs a sharper focus, which I support. We need to ensure that our career and professional products and services address all our members throughout their careers. We need to ensure that our public policy advocacy truly benefits our members, the profession and the public at large. We need to broaden our outreach beyond our traditional base to address a more diverse and inclusive IT workforce and membership, including women, young professionals, entrepreneurs, independent contractors, educators and practitioners in all IEEE fields of interest.

Challenges disrupt but also inspire innovation. As 2006 Computer Society president, I created an outreach initiative focusing on underserved and underrepresented IT communities worldwide, while also focusing on financial improvements. That experience made me aware that there are opportunities for IEEE-USA to build strategic partnerships across IEEE and with external organizations, and to innovate new revenue sources working in collaboration. We are significantly more successful when we work together.

Leaders serve for the good of those they represent. I look forward to working together with you to create an even better IEEE-USA.

Video

Recorded candidate video message is available on IEEE.tv at https://ieeetv.ieee.org/event-showcase/2020-candidates and in the electronic ballot during balloting period at www.ieee.org/elections.

KEITH A. MOORE, PE
(Nominated by IEEE-USA)

Senior Engineer
US Army Information Systems Engineering Command
Fort Huachuca, Arizona, USA
keithmoorecandidateforieeeusapresident.wordpress.com/

Keith Moore currently works for the US Army Information Systems Engineering Command as a senior engineer at Fort Huachuca, Arizona. Keith's career has taken him all over the world to establish and maintain computer and communications systems. Keith holds a bachelor degree in electrical engineering and a master in business administration and management information systems. Keith maintains professional engineer status with the Arizona State Board of Technical Registration.

Keith has served in a number of volunteer and other organizations to work with others for the good of all stakeholders.

IEEE Accomplishments and Activities
(M'02-SM'06)

IEEE Activities

COMMITTEES/BOARDS: IEEE Board of Directors, Region 6 Director, 2019-2020; IEEE MGA Board of Directors, 2019-2020; IEEE-USA Board of Directors, 2019-2020; IEEE-USA PACE (Professional Activities Committees for Engineers) Board, Member, 2014-2015.

REGION: Region 6 PACE Chair 2014-2015; Region 6 Southwest Area Chair 2012-2013.

SECTION/CHAPTERS: Fort Huachuca Treasurer 2002; Webmaster 2003; Secretary 2001; Vice-Chair 2006, 2015; PACE Chair 2008 and 2009.

STUDENT BRANCH: University of Arizona in Sierra Vista Student Chapter Founding counselor 2015.

SOCIETIES: AZ Reliability Society Chapter Founding Chair 2014-2015; Consumer Electronics Society Industry Relations Officer 2008.

CONFERENCES: IEEE Global Humanitarian Technology Conference Technical Program Chair 2011, Vice-Chair 2012, Chair 2013.

OTHERS: Fort Huachuca Women in Engineering Affinity Group Founding Chair 2011; Humanitarian Student Design Competition Judge 2011; Future City Competition Mentor 2002-2010.

Major Accomplishments

- Established the IEEE Global Humanitarian Technology Conference's (GHTC) technical program as the first Technical Program Chair and continued to lead the conference as Vice Chair and Chair for the conference to successfully manage budget and conference goals, and hand off to volunteers who continued to grow the conference.

- As local Section Chair, the Chair of a Region sponsored conference (GHTC), the Area Chair, the Region PACE Chair, Region Director, and member of the Board of Directors I have had close interaction, planning, and work with the local Sections, Regions and staff to complete successful tasks and initiatives for IEEE-USA. As IEEE-USA President, I will continue to work with the local, region, national, and international staff and members to advance IEEE and IEEE-USA goals in the U.S. and throughout the world to the betterment of IEEE, its members, and humanity.

- Introduced expedited PACE Project approvals and tracking for more efficient and expedient project funding.

- Founding Chair of the IEEE Arizona Reliability Society Chapter.

- Founding Chair of the Fort Huachuca Women in Engineering (WIE) Affinity Group.

- Managed and judged the Global Humanitarian Student competition.

Statement

If elected I will work to create more collaboration opportunities across the local sections, societies, regions, IEEE-USA, and internationally. I will use the staff, systems, policies, and procedures in place as well as augment with new ones that will enable the vision of IEEE-USA to come to fruition. I will budget to reward members, student branches, local sections, and society chapters to fulfill the goals of IEEE-USA. I will work to eliminate tedious overhead and bureaucracy that stifles initiative, and empower those who have a spirit of industrious energy who will strive to better the members, the organization, and all of humanity.

Video

Recorded candidate video message is available on IEEE.tv at https://ieeetv.ieee.org/event-showcase/2020-candidates and in the electronic ballot during balloting period at www.ieee.org/elections.

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