2018 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 2018, elections are only being conducted in the following Divisions and Regions: Divisions 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 2018. Elections are also being conducted in all Regions for IEEE Standards Association (IEEE-SA) Board of Governors Member-at-Large. **NOTE:** The 2019 IEEE President-Elect will become IEEE President in 2020.

5. **Deadline for Ballot Receipt: Only ballots received by 12 Noon, Central Time USA (17:00 UTC) on 1 October 2018 will be counted**. Access and return ballot electronically or mail early to allow for delivery by the deadline date.

Regional Elections

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

Technical Division Elections

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

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 Members-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 Members-at-Large. No member grade is required to vote for IEEE Standards Association Board of Governors Members-at-Large.

Technical Activities Elections

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

IEEE United States of America Elections

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

IEEE Policy Against Discrimination and Harassment

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

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

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

Mediation and Enforcement:

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

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

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

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.

TOSHIO FUKUDA
(Nominated by Petition)

Professor Emeritus/Visiting Professor
Nagoya University, Nagoya, Japan;
Professor, Department of Mechatronics Engineering
Meijo University, Nagoya, Japan; and
Professor, Beijing Institute of Technology, China
www.toshiofukuda.org

Dr. Fukuda studied at Yale University 1973-1975 and received Ph.D. from the University of Tokyo in 1977. Presently Professor of Meijo University and Beijing Institute of Technology as well as Professor Emeritus, Nagoya University. He is mainly engaged in intelligent robotic systems and micro-nano robotics, and has published 2,300+ publications in scientific journals, conference proceedings and reports. Served as VP of IFSA (1998-2003) and President of SOFT (2003-2005). He was awarded Humboldt Research Prize (2003), Award from Ministry of Education, Science and Technology, Japan (2005, 2013), Friendship Award from PR Chinese Government (2014), Medal of Honor with Purple Ribbon, Government of Japan (2015), and is a member of Japan Council of Science (2008-2014), Japan Academy of Engineering (2013) and Foreign Member of Chinese Academy of Sciences (2017).

IEEE Accomplishments and Activities
(M'83-SM'93-F'95)

COMMITTEES/BOARDS:

- Division X Director, 2001-2002, 2017-2018
- RAB/TAB Transnational Committee, 1998
- TAB Periodicals Committee, 1998
- Meetings & Services Committee, 1999
- Nominations and Appointments: IEEE N&A, 2003-2004; TAB N&A, 2006; N&A, 1999
- IEEE Fellows Committee, 1997-1999
- *Proceedings* Editorial Board, 2000
- *Journal of MEMS*, Steering Committee, 1993-2000
- *Transactions on Robotics and Automation*, Editorial Board, 1989-1991
- IEEE-SA Standards Board, 2002-2003

- TAB Management Committee, 2006-2009
- Admission and Advancement Committee, 2006-2007
- Environment & Safety Medal Award Committee, Chair, 2007-2010
- MGA Strategy, Direction and Environmental Assessment Committee, Chair, 2015

REGION:

- Region 10: Director 2013-2014; Director-Elect, 2011-2012
- Region 10: Technical Activities Coordinator, 2009-2010

SOCIETIES:

- Robotics and Automation (RAS): President, 1998-1999; AdCom, 2004-2015, 1990-1995
- Industrial Electronics (IES): Vice-President, 1990-1999; AdCom, 1988-2000
- Systems, Man and Cybernetics (SMCS), AdCom, 1994-1996
- Computational Intelligence (CIS), AdCom, 2006-2008
- Neural Networks Council: Secretary, 1992-1993; AdCom, 1999-2000, 1994-1996, 1990-1991
- Intelligent Transportation Council, AdCom, 2000-2001
- Nanotechnology Council, Founding President, 2002-2005

CONFERENCES:

- Intelligent Robots and Systems (IROS): Founding General Chair, 1988
- International Conference on Robotics and Automation, General Chair, 2004, 1995
- International Conference on Evolutionary Computation, General Chair, 1996
- International Joint Conference on Neural Networks, Program Chair, 1991; Steering Committee Chair, 1993
- Workshop on Robot and Human Communication, General Chair, 1994
- Conference on Fuzzy Systems, Program Co-Chair, 1995
- Intelligent Transportation Systems Conference, General Chair, 2000
- Industrial Electronics Conference, General Chair, 2000
- Advanced Robotics and Social Impacts, General Chair, 2005
- System Integration International, General Chair, 2008
- International Symposium on Micro-Nano Mechatronics, General Chair, 1990-2012

AWARDS:
- IROS Harashima Award for Innovative Technologies, 2011
- ICRA Best Manipulation Paper Award, 2011

- IEEE Technical Field Award on Robotics and Automation, 2010
- IEEE RAS George Saridis Leadership Award in Robotics and Automation, 2009
- IEEE Transactions on Automation Science and Engineering Googol Best Paper Award, 2007
- Robotics & Automation Society Pioneer Award, 2004
- IEEE Third Millennium Medal, 2000
- Dr.-Ing. Eugene Mittelmann Achievement Award, 1997

Statement

Home-Value-Connected

I would like make efforts to increase IEEE membership in the world and make the IEEE more comfortable "Home" for everybody to stay in IEEE. Thus I would like to focus on the following:

1. Improve financial transparency,
2. Revise membership fee,
3. Join at least one technical society,
4. Introduce corporate membership for industry, and
5. Create IEEE-University making use of the MOOC (Massive Open Online Courses).

We need the sound financial balance of IEEE to enjoy more activities in IEEE. All members can find a technical society as their technical home, as well as geographical location as their geo-home. Everybody will share their interests and "Value" of IEEE technically and geographically, and so will collaborate with growing and changing today's technology in a worldwide manner, globally and locally.

Needs and expectations for IEEE have been changing for technology professionals, in particular, for industry practitioners, Young Professionals, Women in Engineering, entrepreneurs and also students seeking to be "Connected" with and looking for higher quality interaction opportunities with IEEE and its communities. We need to attract more industry members through corporate membership. The Concept of the IEEE-University making use of MOOCs from IEEE and its alliance can be the "Home" for them and everybody to update emerging technology and careers, since we create the IEEE "Value" of the high quality. IEEE should adapt itself swiftly to the agile and emerging technological demands.

Thus IEEE can grow and advance technology for humanity.

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VINCENZO PIURI
(Nominated by IEEE Board of Directors)

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; Department Chair in 2007-2012). He has been Associate Professor at Politecnico di Milano, Italy (1992-2000), visiting professor at University of Texas at Austin, USA (summers 1996-1999), and visiting researcher at George Mason University, USA (summers 2012-2018). He founded a start-up company for industrial intelligent systems (CEO in 2007-2010).

His research and industrial interests are in intelligent systems, artificial intelligence, neural networks, pattern recognition, machine learning, signal/image processing, measurement systems, and fault-tolerant architectures. He has published 400+ research papers in international journals, conference proceedings, and books.

He has received several awards and recognitions for scientific contributions and IEEE service. He is an IEEE Fellow, ACM Distinguished Scientist, IEEE-HKN Member, INNS Senior Member, and active Member of IEEE Societies/Technical Councils/Affinity Groups (CIS, ComSoc, CS, CSS, EMBS, IMS, PES, PHOS, RAS, SMCS, SPS, BIOMC, SYSC, WIE).

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

In his 34 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), Technical Activities Board, Publication Services and Products Board, and their Committees; Committees of Member

and Geographic Activities Board and Educational Activities Board; Societies and Technical Councils (President, Vice President Membership, Publications, Education, Administrative Committees); Chapters; Student Branch.

- **Strategic planning:** served/led in IEEE, TAB, MGA, 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 Environmental Engineering (2018), Smart World Congress (2018, 2017, 2016, 2015), WF-IOT (2016, 2015), SSCI (2013, 2011, 2009), I²MTC (2010, 2009, 2004), IJCNN (2010, 2009, 2000).

- **Publications:** Editor-in-Chief (ISJ); Associate Editor (T-C, T-CC, T-NN, T-IM, CI-M); 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.

Statement

IEEE is uniquely positioned as a global leader in science, technology, and innovation. We should continue to be the premier reference in our field and further grow as a driver of innovation, timely identifying emerging needs and opportunities.

With the extraordinary expertise and dedication that our IEEE community offers, together we can face this challenge and enhance our profession by:

- *Engaging and effectively serving* the IEEE members and all people in the scientific and professional community, by ensuring *membership fees affordable everywhere* in the world, offering *personalized bundles of services*, addressing the *specific local needs*, providing *sustainable access to knowledge*, and enhancing *membership value*;

- *Empowering members and promoting transparency*, by pervasively ensuring *transparency of finance and decision processes*, enabling *active participation and relevance of members in IEEE management*, and supporting *underserved groups and areas*;

- *Continuing to be the trusted source for high-quality knowledge*, by facilitating the access to information with *recommendation systems*, providing *practical knowledge for professionals*, offering *data, algorithms and experiments repositories* for research and industry innovation, and creating innovative *services and delivery methods for the professionals of the future*.

I am fully committed to serve our community, with strategic vision and guidance, encouraging participation, galvanizing enthusiasm, and catalyzing the rich and diverse competences and aspirations of members and volunteers. I envision *a holistic view for One IEEE while nurturing the local communities*. An IEEE in which everybody finds value and feels proud to be. *An IEEE by people for people*.

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JACEK M. ZURADA
(Nominated by IEEE Board of Directors)

Professor
Department of Electrical and Computer Engineering
University of Louisville
Louisville, Kentucky, USA
www.JacekZurada.org

Dr. Jacek Zurada is a Professor of Electrical and Computer Engineering at the University of Louisville, Louisville, Kentucky, USA. He was a post-doc at Swiss Federal Institute of Technology, Zurich, a Visiting Professor at Princeton University, and a Distinguished Visiting Professor at NUS and NTU (Singapore).

He has authored several textbooks including the pioneering neural networks text and over 420 refereed publications in deep learning, neural networks and image/signal processing that have resulted in over 11,900 citations. He has advised 22 PhD students, now leaders in academia, Google, Facebook and Amazon. He has also served industry and start-ups as a consultant.

Dr. Zurada has delivered over 160 invited plenary conference presentations and seminars, including Distinguished Lectures for three IEEE Societies. He received numerous IEEE, university and scholarly society awards for research, teaching and service. He was elected to the Polish Academy of Sciences and received six honorary doctorates and professorships.

IEEE Accomplishments and Activities
(M'82-SM'83-F'96-LF'14)

IEEE Accomplishments: Dr. Zurada served in a wide range of recent leadership roles, including four major Boards: the IEEE Board of Directors, Technical Activities (TAB), Members and Geographical Activities (MGAB), and Publications Services and Products (PSPB). He has:

- Led a successful pioneering effort to deliver **educational products and services** created by Societies/Councils free to members and for a fee to the general public. The novel Resource Centers now support members' careers and life-long learning (2013-17).

- Launched the **Globalization Initiative** that fostered a new generation of

IEEE/TA volunteers in publishing, conferences and governance. This endeavor brought a series of successful, reproducible 'Train-the-Trainers' workshops to disadvantaged geo-regions (2013-16).

- Successfully championed the TAB-wide **Financial Transparency Initiative**. This multi-year effort has required close collaborations across the IEEE and has benefitted operations of Societies/Councils (2014-17).

- Supported and championed **12 new practitioner-oriented IEEE Magazines and three new Compendia/Virtual Journals** (as a member and/or Chair of the TAB Periodicals Committee 2006-13).

IEEE Activities (only select lead positions): 2014 IEEE Vice-President for Technical Activities (TAB Chair and IEEE Director, Elect-2013, Past-2015); Chair, TAB Strategic Planning Committee, 2015; TAB Representative to MGAB, 2016-17; Chair, TAB Periodicals Review and Advisory Committee, 2012-13; Chair, TAB Periodicals Committee, 2010-11; Vice-Chair, PSPB, 2011; Chair, TAB Transactions Committee, 2007-09; President, IEEE Computational Intelligence Society, 2004-05; Chair/Member, IEEE/TAB/PSPB Strategic Planning Committees (2010-2016); Editor-in-Chief, *IEEE Transactions on Neural Networks*, 1998-2003; Chair/Member of 140 conference committees.

As an accomplished, passionate engineer/scientist and volunteer since 1993, I will provide IEEE with effective and visionary leadership. I have experience in management, in technical, educational and member activities and strategy planning. My cross-cultural exposure blends my European background with a professional career of 35 years in the USA and three years in Asia. This gives me the confidence and skills to be an effective leader of the increasingly global IEEE.

Statement

Although no other technology association can match IEEE's brand, membership and knowledge base, our organization has **struggled to put itself on a winning growth trajectory**. Healthy revenues have been drained into operational deficits brought through questionable corporate initiatives and closed meetings. A lack of financial transparency has left our units with little control over their revenue-to-expenses ratio, stifling their productivity. Our industrial membership dropped from 67% to 47% since 2000. With declining retention of graduating students now at 38%, our membership is aging. Finally, though we've increased the number of products, returns look lacking as our members report low satisfaction.

To re-gain the upward momentum, with focus on members, transparency and technology, as President I'll launch forward-thinking initiatives while embracing the reform commenced by recent leadership to:

- **Redefine membership value** to meet the needs of our members from different regions, age groups, career objectives, and industry segments.

- **Develop a useful, understandable, financial model** that eliminates wasteful and duplicative spending while sparking creativity.

- **Leverage technology and design-thinking to deliver personalized services and products** that have impact and relevancy for our members and paying customers.

- **Initiate a landmark project to transform IEEE from today's traditional 'technical paper provider' to a 'knowledge provider'**. The new AI-driven IEEE Xplore will deliver highly-processed, filtered, on-demand knowledge be it designs, algorithms, technical solutions, products, standards, even answers to questions. As a neural networks pioneer, I know this will establish **the new 'AI-aligned-IEEE'** and bring new revenue streams and opportunities. More at www.jacekzurada.org.

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ADAM T. DROBOT
(Nominated by IEEE Division III)

Chairman
OpenTechWorks, Inc.
Wayne, Pennsylvania, USA
http://www.opentechworks.com

Adam Drobot is an independent Technologist and Manager with over forty years of experience in research, industry, and government. He is the Chairman of OpenTechWorks, founded in 2008. He was the Managing Director and CTO of 2M Companies, an investment firm, in Dallas, Texas (2010-2012), President of Applied Research and CTO of Telcordia Technologies, a Telecommunications Company (2002-2010), and Technology Senior Vice-President and Group Manager of Applied Technology Solutions at SAIC, (1975-2002). He is on the Board of multiple start-up companies, chairs the Telecommunications Industry Association's Technology Committee, and the FCC Technological Advisory Council. He published 100+ papers and holds 26 patents. Adam is an APS Fellow and an IEEE Senior Member. He obtained his BA from Cornell University in Engineering Physics (1968) and PhD in Plasma Physics from the University of Texas at Austin (1975).

IEEE Accomplishments and Activities
(M'95-SM'06)

Selected accomplishments and activities:

Committees/Boards
- IoT Activities Board, sponsored by 20+ Societies/Councils, Chair (2017-2018)
- 5G Initiative Steering Committee, a Future Directions Initiative (2017-2018)
- Awards Board, and its Operating and Review Committee (2016-2018)
- Executive Director Search Committee (2016-2017)
- EBCC, Chair and Member (2013-2016)
- Recognitions Council, Chair (2016-2018), Member (2011-2013)

Conferences
- IoT V&T Summit on Agriculture: 2018 Chair (Italy); 2017 Chair, (France, part of ICC2017)
- Chair, 2018 World Forum on the Internet of Things (Singapore)
- Chair, 2018 IoT V&T Summit on Communications and Connectivity at RWW2018 (USA)
- Industry & Expo, Chair, 2012 ICC (Canada)
- Industry & Expo, and Access Chair, 2016 Globecom (USA)
- Technical Program Chair, 2005 Milcom (USA)

Society Activities

Most of my IEEE efforts have been through the Communications Society. These ranged from supporting ComSoc activities through event sponsorships to participation in conferences. I've been privileged to give 20+ keynote addresses and arranged for industry keynote speakers and panelists at ComSoc events. I've also supported many ComSoc Presidents in strategic planning and Chaired Ad-hoc Committees on various topics, such as the Ad-hoc Committee on Industry Participation seeking better strategies to involve engineers from industry in IEEE activities.

Accomplishments

My many volunteer activities represent the different facets of IEEE, ranging from holding technical topic tutorials, to organizing conferences, to deep involvement in the management, governance, and administration of the IEEE processes. Of these I am proudest of:

- Workshop at IEEE NPSS annual meeting that resulted in a book on "*Computer Applications in Plasma Science and Engineering*" (1987).
- Receiving the Management Excellence Award (2008).
- Leading EBCC over a multi-year period, assisting the IEEE in improving: goals setting processes and the IEEE Executive Director performance evaluation; and implementation of new employee incentive system.
- Organizing and leading IEEE IoT Initiative transition from funding by FDC to Society Support and a significant growth in the IoT Technical Community.

Statement

The IEEE is an important global institution that combines the culture and spirit of volunteerism and the capabilities of an outstanding professional staff to:

- Deliver value to our membership and stakeholders
- Serve the professions that compose our Societies and Councils
- Be the best source of knowledge and excellence about technology and applications
- Contribute to the betterment of humanity through technology and innovation

I can contribute to IEEE and the Division by being a sound voice for actions to:

- Improve the agility of IEEE to keep up with demographic, technological, and cultural changes. Provide better programming to attract underserved populations that are part of the profession, while maintaining the ethos of technical excellence and objectivity that is essential to benefit the profession and humanity through the activities that IEEE focuses on.

- Provide for transparency in governance and finances, making IEEE: the standard for professional associations; and a welcoming institution that benefits the members and provides them with the satisfaction of being part of a purposeful and accomplished organization recognized for its positive role in society.

ALEXANDER D. GELMAN
(Nominated by IEEE Division III)

CTO
NETovations Consulting Group
Princeton, New Jersey, USA
www.adgelman.net

Alexander D. Gelman received M.E. and Ph.D. (EE) from City University of New York. Presently he is CTO of NETovations Consulting Group. During 1998-2007 Alex worked as Chief Scientist at Panasonic Princeton Research Laboratory; during 1984-1998 at Bellcore, lastly as Director-Internet Access Architectures Research. Alex has numerous publications and several patents. He pioneered Multimedia Bridging, Video on Demand over Networks and XDSL-based Internet Access. He was among first recipients of Bellcore President's Award.

Alex co-founded eight IEEE conferences and two publications; initiated ComSoc Standards Activities; initiated ComSoc Technical Committee and standardization in Power Line Communications; chaired the Technical Committee on Multimedia Communications; served four terms as ComSoc Vice President.

Alex served on IEEE-SA BoG and several terms on Standards Board, e.g. representing TAB; chaired TAB Ad Hoc Committee on Standards.

Alex is a recipient of ComSoc Donald McLellan Meritorious Service Award, IEEE-SA Corporate Standards Sponsor Award and IEEE-SA Standards Medallion.

IEEE Accomplishments and Activities
(S'82-M'86-SM'91-LS'15-LF'18)

In over 36 years of IEEE volunteer activities I progressed from a line volunteer organizing technical sessions at conferences and editing Feature Topics and Special Issues in publications to chairing ComSoc Technical Committee, to ComSoc and IEEE-SA governance serving on various IEEE, ComSoc and IEEE-SA committees, to serving on IEEE-SA and ComSoc Boards of Governors, including three ComSoc directorships, one term as CIO, and four terms as ComSoc Vice-President.

My range of IEEE activities spans:

Publications:
- Served as guest-editor of several Feature Topic issues of the *Communications Magazine* and special issues of *JSAC*
- Served on the founding steering committee for *IEEE Transactions on Multimedia*

- Initiated the *ComMag Communications Standards Supplement*
- Initiated the *IEEE Communications Standards Magazine* and presently serve on its inaugural steering committee.

Conferences:
- Served as Organizing Committees chair and vice-chair, on TPCs for several ComSoc portfolio conferences
- Served on founding Steering Committee for IEEE-ICME, IEEE-SmartGridCom, IEEE-CSCN
- Initiated and co-founded IEEE-CCNC
- Helped to acquire four conferences: IEEE-BlackSeaCom, IEEE-P2P Computing, IEEE-SIIT, IEEE-ISPLC
- Presently serve on IEEE Conferences Committee.

Standards Activities:
- Initiated ComSoc Standards Board and served two terms as ComSoc Director of Standards
- Architected ComSoc Standards Activities Council and was elected first ComSoc's Vice President-Standards Activities
- Served on IEEE-SA Board of Governors and several terms on IEEE-SA Standards Board and its committees
- Initiated and guided the Smart Grid Vision project sponsored by IEEE-SA and implemented in partnership with 5 Technical Societies
- Chaired the 2008 TAB Ad Hoc Committee on Standards
- Served 3 terms as IEEE-TAB representative to IEEE-SA Standards Board
- Presently serve as Vice Chair of the TAB Committee on Standards.

Awards/Recognitions:
I received ComSoc Multimedia Technical Committee's Distinguished Service Award, ComSoc Donald W. McLellan Meritorious Service Award, and IEEE-SA Standards Medallion. On my watch, while serving as ComSoc Director of Standards, ComSoc received the IEEE-SA Corporate Standards Sponsor Award.

Statement

I am honored to be nominated as Division III Director. The heart of Division III is its volunteers from every corner of the globe. It is critical for IEEE to enable these volunteers to innovate and exercise entrepreneurship in launching and maintaining new IEEE products and services in every region.

IEEE services to conferences, publications, and other activities need to be competitive and cost-effective. They should be developed with volunteers' input and respond to volunteers' needs. If elected I will improve volunteers' visibility into the development and operations of IEEE services that are critical to volunteer activities.

Communications and networking are fast developing areas that should be supported by new IEEE initiatives in next generation technologies. This will enable proactive discovery of new opportunities in conferences, publications, training, standards and other areas. These initiatives should be driven by the goal of identifying new IEEE products and maximizing the Return on Investment to Technical Societies and their volunteers.

If elected, I will work with TAB and BoD to achieve this goal.

SERGIO BENEDETTO
(Nominated by IEEE Division III)

Emeritus Professor
Politecnico di Torino
Torino, Italy

Sergio Benedetto is an Emeritus Professor at Politecnico di Torino. Active for more than 40 years in the field of digital communications, he has coauthored 5 books and over 250 papers. His publications have received more than 20,000 citations, with about 1,400 citations for two of them. He has been for many years an "ISI highly cited researcher".

He received the "Premio Siemens per le Telecomunicazioni" in 1973, the "Premio Bianchi" of AEI in 1974, the "Premio Bonavera" in 1976, the "Gold Medal Award of Siemens Telecomunicazioni" in 1993 and 1995, the "Italgas International Prize for Research and Technological Innovation" in 1998, the "Cristoforo Colombo International Award for Communications" in 2006, and the "IEEE Communications Society Edwin Howard Armstrong Award" in 2008.

Sergio has been a member of the Board of Directors of ANVUR, the Italian Agency for the Evaluation of Italian Universities and Research Centers until May 2, 2016.

IEEE Accomplishments and Activities
(M'76-M'89-SM'90-F'97-LF'15)

COMMITTEES/BOARDS: IEEE Technical Activities Board (TAB): 2014-2015, IEEE TAB Periodicals Committee: 2009-2013, IEEE Publication Services and Products Board (PSPB) MAL: 2016-2018, PSPB N&A Member: 2017-2018, PSPB Strategic Planning Committee Member: 2013-2017, PSPB Strategic Planning Committee Vice-Chair: 2018, IEEE Ad Hoc on the Future of Information and Convening Member: 2015, IEEE Ad Hoc on Infrastructure Strategy Growth Member: 2013-2014, IEEE Publishing Conduct Committee Member: 2017-2018, IEEE Conferences Committee Member: 2016-2017, IEEE Conference Quality Committee Member: 2016-2017, TAB PRAC Member: 2017-2018, IEEE MGA: 2018, Alexander Graham Bell Medal Committee: 2009-2012.

SOCIETY: IEEE Communications Society: Vice President of Technical Activities 2006-2007, Vice-President for Publications: 2008-2009, Vice President for Member Relations: 2010-2011, President-Elect: 2013, President: 2014-2015, Nominations and Elections Committee Chair: 2017-2018, Fellow Evaluating Committee Chair: 2018.

As a member of the Periodicals Committee of IEEE TAB I worked with society presidents in making the process of launching new periodicals more transparent and easier to follow, through an internal Sub-Committee of the Planning Committee aimed at tutoring the proposers of new periodicals during the submission of Phase 1 and 2 proposals. Within the IEEE PSPB Strategic Planning Committee, I contributed to the issue of IEEE positioning in the Open Access arena. Within the IEEE Communications Society I have served in 3 Vice President positions and as President. As President, I have been able in 2015 to bring the society to break even from a previous year deficit of about US$1,000,000. Also, I enhanced the collaboration with IEEE Standards Association introducing new standard groups and adding a Standard Supplement to *Communications Magazine*. I revamped the whole Society strategy to increase industry participation in ComSoc by inviting industry members to Publication and Conference Boards. In TAB, I have been one of the leaders of the societies Presidents movement successfully advocating a better financial transparency in IEEE budget.

Statement

In the last few years, the IEEE model has faced a serious crisis in terms of membership and budget. There are objective reasons for that: the economic threat represented by the open access model, the rapidly change of industrial research landscape from large academic-like research centers to a myriad of small-medium technological start-ups, the new networking opportunities offered by social media and others. IEEE, however, has done little to cope with those challenges and catch the opportunities that are always embedded within difficult times. Instead, the IEEE leadership has emphasized corporate mandates rather than member value, proposing questionable reforms aimed at an increased centralization and reduced transparency of the decision-making processes.

If elected, I will treasure my deep experience as an IEEE volunteer and knowledge of the organization to refocus IEEE on its core values: membership and technical communities, by offering members strong motivations to stay actively within the organization. Moreover, my aim will be to strengthen the collaboration between TAB and PSPB, since its lack has always been a serious weakness of IEEE.

THOMAS M. CONTE
(Nominated by IEEE Division V)

Professor
School of Computer Science, and
School of Electrical & Computer Engineering
Georgia Institute of Technology
Atlanta, Georgia, USA
http://www.conte.us/dd

Tom Conte is an active researcher in the field of computer architecture. He received his Bachelor of Electrical Engineering degree from the University of Delaware in 1986; and, he received his M.S. and Ph.D. degrees in Electrical Engineering from the University of Illinois at Urbana-Champaign in 1988 and 1992, respectively. From 1995 to 2008, he was on the faculty of the department of Electrical and Computer Engineering and Director of the Center for Embedded Systems Research at North Carolina State University. While on leave from NC State in 2000-'01, Tom served as the Chief Microarchitect for DSP startup BOPS, Inc. He is currently a Professor joint appointed in the Schools of Computer Science and Electrical & Computer Engineering at the Georgia Institute of Technology where he directs the interdisciplinary Center for Research into Novel Computing Hierarchies focused on post-Moore's Law computing. Conte is the named inventor on 40 US Patents.

IEEE Accomplishments and Activities
(S'84-M'92-SM'99-F'05)

COMMITTEES/BOARDS:
- TAB Periodicals Committee, 2012-2013
- PSPB, 2012-2013
- TAB, 2015
- Co-Chair, IEEE TAB / NIC Rebooting Computing Initiative, 2012-present
- Vice-Chair, IEEE International Roadmap for Devices and Systems (IRDS), 2016-present
- Awards Board Nominations & Appointments Committee, 2016
- TABARC, 2009-2011
- IEEE Fellows Committee, 2012

REGIONS: Region 3

SECTIONS/CHAPTERS: Atlanta Section member, 2008-present

STUDENT BRANCH: Chair, University of Delaware Student Branch, 1984-1985; Faculty advisor, North Carolina State University Student Branch, 1998-2004.

SOCIETY: Computer Society:
- Technical Committee on Microarchitecture Chair, 1998-2006
- IEEE Goode & McDowell Awards Committee Chair, 2005-2008
- Awards Chair 2008-2011
- Fellows Committee Chair 2011
- Board of Governors 2009-2011
- First VP and VP for Publications 2012-2013
- President 2015

CONFERENCES:
- General Chair: IEEE International Symposia/Conference on: *Microarchitecture* (2006, 2010), *High Performance Computer Architecture* (2009); *Code Generation and Optimization* (2003); *Workload Characterization* (2015).
- Technical Program Chair: IEEE International Symposia/Conference on: *Rebooting Computing* (2018); *Workload Characterization* (2009); *Code Generation and Optimization* (2006); *Compilers, Architectures, and Synthesis for Embedded Systems* (2005); *Microarchitecture* (1997).
- Program committee member: over 30 IEEE symposia/conferences.

ACCOMPLISHMENTS:

Founded the **IEEE Rebooting Computing Initiative:** this initiative, that I co-chair with past president of the Council on Superconductivity, Elie Track, began in 2012 to look for a way to "restart Moore's law." RCI held invitational summits of thought leaders and written reports that have ultimately changed federal funding policies and influenced White House executive orders. In 2016, we brought the venerable semiconductor roadmap into the IEEE.

As a **president of IEEE Computer Society**, I chaired the team that created a three-year strategic plan to revitalize the Computer Society. I introduced a new funds distribution model for our conferences that encourages use of surplus funds for later years. I instituted a review of all products and services on a three-year cycle with the goal of scaling back those that are no longer effective.

Statement

I'm proud to be part this 134-year-old institution. But never has it been more challenging to be an IEEE volunteer. Because it has been around so long, IEEE has grown overly bureaucratic. The infrastructure that supports our members is funded by publications revenue and dues. Today all publications must become Open Access: freely available to all. IEEE *must* become more efficient to survive. Yet, IEEE must not become so obsessed with revenue that we ignore our members' needs.

I joined the IEEE 35 years ago for the same reasons that I'm a member today: to s*tay current*, to *keep in touch* with colleagues, to *contribute* and *collaborate*. As President of the Computer Society, I worked to make the society more efficient, better responsive to its members, and less rooted in the past. The "*is it helping our members?*" test has been the guiding principle behind any and all decisions I've made as an IEEE volunteer. It will be the same principle I use as your IEEE Division Director.

JEAN-LUC GAUDIOT
(Nominated by IEEE Division V)

Distinguished Professor
Electrical Engineering and Computer Science
Department
University of California, Irvine (UCI)
Irvine, California, USA
http://pascal.eng.uci.edu/JLG4DDV/

Jean-Luc Gaudiot is Distinguished Professor of Electrical Engineering and Computer Science at the University of California, Irvine (UCI). He is a Fellow of IEEE and AAAS, and a Professional Member of Eta Kappa Nu.

At UCI, he was Department Chair for 6 years during which the USNWR® rankings rose from 42 to 28 (46 to 36 for the EE program) and 12 faculty members were added. Prior, he was Professor of Electrical Engineering at the University of Southern California (USC).

He frequently acts as consultant to companies that design high-performance computer architectures and as expert in patent infringement and product liability cases. His research interests include the architecture of multiprocessors, a domain in which he has published over 250 papers. His research has been sponsored by NSF, DoE, and DARPA, as well as industrial organizations. He received a PhD in Computer Science from University of California, Los Angeles, in 1982.

IEEE Accomplishments and Activities
(S'75-S'78-S'80-M'82-SM'90-F'99)

In my professional career, I have held multiple positions within IEEE, including some of the most salient listed below:

- *IEEE-CS/ACM Parallel Architectures and Compilation Techniques (PACT) co-founder:* back in 1993, I recognized the need for a conference which would link three major areas of research in parallel processing: architecture, programming paradigm, and compilers. Careful steering has allowed us to parlay this meeting into a premier conference widely respected in the field.

- *IEEE Computer Architecture Letters co-founder:* relevance, time to publication, and impact are primary metrics of our publications. In the modern publication environment, I identified a need in the community

for an archival journal venue where good ideas could be evaluated rapidly and could find quick exposure.

- *IEEE Computer Society President (2017):* In this position, I led the Society through an intense year of reforms ranging from our operations to our budget issues, leading to a much healthier financial position. This position gave me much experience demonstrating flexibility in implementing plans, vision for the future, and understanding of the needs of our members.

- *IEEE Computer Society Publications Board: Chair of the IEEE CS Transactions Operations Committee (2010-2011) and Magazine Operations Committee (2012) and VP of the Publications Board (2014-2015):* in this last position, I oversaw the operations of a total of approximately 12 Magazines and 14 Transactions and led a number of innovative projects including *Journal First – Conference Second* and *Versioning*.

- *IEEE Publication Services and Products Boards TAB Representative (2018).*

- *IEEE Publications: Editor-in-Chief, IEEE Transactions on Computers* and *IEEE Computer Architecture Letters; Special Issue Editor, multiple journals.*

- *Conference Organization:* Steering Committee, Organizing Committee, or Program Committee Chair of multiple IEEE Conferences.

Statement

As professionals, we have had tremendous impact upon the world. We have changed the nature of daily life for a large portion of humanity. Our field has changed because of the technology that we ourselves have created. Times are changing, yet the mission of IEEE remains: we must provide information and services to advance the theory, practice, and application of science and technology for the benefit of our members and of society at large. Our obligation is to fulfill this role and to prepare the next generation to be good stewards of this knowledge.

Societies, Councils, Chapters, and Student Chapters are the strengths and the essence of IEEE. As Division Director Representative of the Computer Society, I will strive to strengthen these units so they not only continue developing our core products but also explore and exploit new opportunities and technologies to promote the services which are the hallmark of our organization. As a skilled leader, I will seek to be a unifying force that will coalesce opportunities into a coherent vision of our future.

MIRIAM P. SANDERS, PE
(Nominated by IEEE Division VII)

Senior Communications Applications Engineer
Schweitzer Engineering Laboratories, Inc.
Charlotte, North Carolina, USA

Miriam P. Sanders (Student Member 1978, Member 1980, Sr. Member 1991) received a bachelor's degree in electrical engineering from University of North Carolina at Charlotte in 1980. She is a registered Professional Engineer in Florida and North Carolina. Her career has concentrated on protective relay with emphasis in teleprotection and communications. The most recent position is with Schweitzer Engineering Laboratories, Inc. as senior communications applications engineer. Her previous experience includes 5 years as a senior instructor with SEL University teaching protection and communication fundamentals, and 30 plus years with Westinghouse, ABB, Pulsar Technologies and Ametek Power Instruments as product manager for the Power Line Carrier products. She has also done consulting work with Quanta Technology.

IEEE Accomplishments and Activities
(S'78-M'80-SM'91)

Miriam is a 40-year member of IEEE (Sr. Member). She has held many positions in the technical activities of the Power and Energy Society (PES). From 2013 to 2018 Miriam served as an officer of the PES Technical Council, progressing from secretary, to vice chair and then to chair. Concurrent with her position as Chair Vice President of Technical Activities. As Chair of TC, Miriam facilitated the reorganization of the technical committees to be aligned with today's technology. She also organized efforts to have tutorials created on popular IEEE standards for presentation around the world in order to promote the great works the technical committees accomplish. She has served as committee chair, vice chair and secretary for the Power Systems Relaying and Control Committee (PSRC) (2005 through 2010), as well as standards liaison for both the PSRC and the Power Systems Communications and Cybersecurity Committee. She has chaired several working groups in these committees as well. Miriam became a member of IEEE/PES as a student in 1978, and chaired the local student chapter. She also received the local PES's chapter's scholarship during her time as a student.

Statement

As a volunteer with PES, I have served the society for thirty-five plus years participating in the technical committee work. I will endeavor to bring value to our younger engineers as well as those experienced engineers on technical and educational levels. PES is one of the largest societies in the IEEE and as such we bring great value to the society. I will strive to ensure that our desires are known and validated at the IEEE level, to strengthen both PES and IEEE. In order to continue to grow we need to continue to attract younger and diverse members with meaningful projects and opportunities for volunteers at all levels to the betterment of society. The power and energy industry is going through a dynamic evolution with renewables, energy storage and digital technologies and PES needs to stay at the forefront to help guide this evolution. I will also continue my predecessors' great work to curtail cost and keep the budget in check to benefit the volunteers.

MIROSLAV M. BEGOVIC
(Nominated by IEEE Division VII)

Department Head
Electrical and Computer Engineering Department
Texas A&M University
College Station, Texas, USA

Miroslav M. Begovic (F'04) is Department Head of ECE, and Carolyn E. & Tommie S. Lohman '59 Professor at Texas A&M University. Prior to that, he served as Professor and Chair of the Electric Energy Research Group in the School of ECE, Georgia Institute of Technology, and affiliated faculty member of the Brook Byers Institute for Sustainable Systems and University Center of Excellence in Photovoltaic Research. His research activities are in monitoring, analysis, and control of power systems, as well as development and applications of renewable and sustainable energy systems. Prof. Begovic was Editor of the section on Transmission Systems and Smart Grids in *Springer Encyclopedia on Sustainability* (2012), guest editor of *IET Generation, Transmission & Distribution Special Issue on Wide Area Monitoring and Control*, authored nearly 200 journals, conference papers and IEEE standards and technical reports, and has contributed over 100 keynote and invited presentations in all IEEE Regions.

IEEE Accomplishments and Activities
(S'87-M'89-SM'92-F'04)

- Nominated in 2018 for the elected position of IEEE Division VII Director-Elect (2019) and IEEE Division VII Director (2020-2021) by the IEEE PES Nominations and Appointments Committee

- IEEE Nominations & Appointments Committee (2017-2018) and IEEE Fellows Committee member (2017)

- IEEE PES President and Chair, IEEE PES Governing Board and PES Executive Committee, (2014-2015) and IEEE PES Past President (2016-2017). As President, strongly supported membership and Chapter growth by supporting Chapter Chair orientation trainings in all regions every year (Student Chapters grew 40 percent year-on-year during the period); global outreach (especially in R10 and R8, strengthening relations with sister associations, such as CIGRÉ and Chinese Society of Electrical Engineers (CSEE); coordinating first major reorganization of the PES Technical Committees, and strongly supporting close coordination of strategic relations of PES with IEEE sister societies, IEEE Standards Association, and ISO

- IEEE PSPB Committee member (2015)

- IEEE PES President-Elect, member of the Governing Board and its Executive and Finance Committees, and Chair of the IEEE PES Long Range Planning (LRP) Committee (2012-2013), which developed the current IEEE PES Strategic Plan for 2014-2019

- IEEE PES Governing Board, Society Treasurer, member of its Executive Committee, and Chairman, Financial Committee (2010-2011)

- Chair, Constitution and Bylaws Committee, IEEE PES Governing Board (2006-2010)

- Vice-Chair and Chair, Student Activities Subcommittee, IEEE PES Power Engineering Education Committee (2004-2006); organized student travel to PES GM for hundreds of students

- Secretary (2002-2003), Vice-Chair (2004-2005), and Chair (2005-2009), IEEE PES Coordinating Committee for Emerging Technologies; coordinated development of the Emerging Technologies Review, and introduced a popular series of Late Breaking News sessions at GM about innovations, standards, and emerging technologies

- IEEE PES Relaying Committee member for over twenty years, chairing a number of its Working Groups which developed standards and reports

- IEEE PES Atlanta Chapter and Section, various leadership positions (1989-1999).

Statement

I have served IEEE for over 30 years, as a member of its Power and Energy, Computer, and Circuits & Systems Societies, leading Working Groups in its Technical Committees, and engaging in leadership positions within the IEEE PES and IEEE TAB as well as a number of IEEE committees.

During that time and especially within the past 7 years, I have been actively involved in advancing IEEE PES and its solid revenue supported business model, building close relationships with sister societies, developing external relations with other professional associations, and building global outreach for the benefit of IEEE members.

As an academic researcher closely aligned with industry (NEETRAC consortium at Georgia Tech) and agile university administrator (Texas A&M University), I am attuned to attracting and promoting talent, identifying and nurturing innovation, and judiciously managing budgets, all useful experiences for the IEEE Board of Directors position for which I am nominated.

It would be my honor to support IEEE in its stable progression of influence, outreach and continued growth to half a million global members.

FERIAL EL-HAWARY
(Nominated by IEEE Division IX)

President
BH Engineering Systems Ltd., and
Professor (Retired)
Dalhousie University
Halifax, Nova Scotia, Canada
www.ferialdal.ca

Dr. Ferial El-Hawary (M'82-SM'85-F'99-LF'13) received B.Eng. from University of Alexandria, and M. Sc. from the University of Alberta, Edmonton, Canada, in Electrical Engineering; and the Ph.D. in Oceans Engineering from MUN, Canada. Dr. El-Hawary is the President of BH Engineering Systems Ltd. and former Professor, Faculty of Engineering at Dalhousie University, Canada where she established and directed the Modeling & Signal Analysis Research Laboratory. Her sustained research is devoted to OCEANS Applications with significant impact in Marine Industry. Published widely in IEEE Journals. She is Editor-in-Chief of *The Ocean Engineering Handbook CRC Press*, 2001 - 2nd Edition 2004. Served as Associate Editor of *IEEE Oceanic Engineering Journal*. Experience in Academic Institutions for over 25 years. As a founder of BH Engineering Systems Ltd., established professional development courses linking academic innovations to *Multi-disciplinary* industrial needs. Fellow Marine Technology Society (MTS), Fellow Engineering Institute of Canada (EIC), and Life Fellow IEEE.

IEEE Accomplishments and Activities
(M'82-SM'85-F'99-LF'13)

1. As OES V.P. International Activities, led the creation of OCEANS Conferences held in R7, R8 and R10. Since then OCEANS Conference is a global event.
2. Developed OES Chapters in R7, R8, R10 and SMC Chapter in R7. Supported the formation of the first IEEE HKN Student Chapter in R7.
3. As Director of R7 (2008-2009), established three standing Committees on History, Canadian Humanitarian Initiatives (HIC) and Teacher In-Service & Pre-College Education.
4. Established the International Humanitarian Technology Conference (IHTC'2014) bi-annual Conference of R7.
5. Supported developing a database of multi-media for Division IX Societies.

AWARDS
- 1997 OES Distinguished Service
- 2008 SMC Outstanding Contribution
- 2007 EAB Meritorious Achievement in Continuing Education
- 2002 R7 Eastern Canada Council Merit
- 2001 R7 Outstanding Service
- 2017 "Murugan Memorial" Canadian Atlantic Section
- 2005 MTS Compass International
- 1985 Fellow MTS, and 1999 Life Fellow IEEE

COMMITTEES/BOARDS
- Board of Directors 2008-2009

- Board MGA 2008-2009
- Conference Services 2006-2007
- MGA Pre-University 2009
- Honorary Membership Committee 2017-2018
- Section Congress 2004-2005 and 2007-2008

SECTIONS/CHAPTERS
- Founder & Chaired OES CAS Chapter 1985-2017
- Established OES Chapters in R7, R8, R10 and SMC Chapter in R7
- Organized numerous Workshops, Panel Discussions and Conferences in R7 and R8.

SOCIETIES

Oceanic Engineering (OES)
- VP International Activities 1994-1995
- Chaired Membership Development 1992-1994 and 2014-2015
- Administrative Committee 1986-2000 and 2002-2017
- Conference Publication Committee 2013-2014
- Fellow Evaluations since 2015

Systems, Man, and Cybernetics (SMC)
- Founder and Chair since 2015 SMC Technical Committee on UMSE
- Chaired SMC 2007 and 1985 Conferences

Power & Energy (PES)
- Chaired PES LESCOPE 2002 till 2007
- TP Chair PES LESCOPE 1997 till 2001
- OC Chair PES EPEC 2010

CONFERENCES
- Successfully Chaired OCEANS 2008 and OCEANS 2011, 2007, 2004, 1997, 1987 OC
- Founder and Chaired R7 International Humanitarian Technology Conference 2014 and 2015 and 2017 OC
- Co-Chair Section Congress'08

Statement

- As a Multi-disciplinary Ocean Engineer, I will promote joint cross-disciplinary initiatives in Division IX to encourage collaboration between Societies to focus and promote overlapping advanced technologies.
- The challenge for Division IX is finding products and services and leverage benefits to members responding to their needs and aspirations.
- Advocate strengthening and expanding the role of the Young Professionals and Graduate Students within Division IX Societies.
- Work to grow a truly global organization and embrace membership from IEEE ten Regions based on my past experience as Membership Development Chair.
- Work to develop more Industrial Scholarships in our areas of interest to raise societies visibility and encourage continuity of student and graduate student memberships.
- Recruit more volunteers and have fair participation from different groups of IEEE.
- Consider Special Networking Event between Division IX Societies.
- Follow up on the efforts made by TAB and Division IX on Strategic Planning and work on implementing the necessary action items.
- I have the experience, enthusiasm and abilities to contribute to IEEE. I will be honoured to serve as Division IX Delegate/Director (2020-2021).

RABAB KREIDIEH WARD
(Nominated by IEEE Division IX)

Professor Emeritus
Electrical and Computer Engineering Department
University of British Columbia (UBC)
Vancouver, British Columbia, Canada
http://ipl.ece.ubc.ca/rababw.html

Rabab has 43 years of post-doctoral experience in leadership, education and research. She was IEEE Signal Processing Society president, Director of a research institute of 160 professors (1996-2007), held high leadership positions at University of British Columbia and was member of advisory boards and committees of international organizations including NRC, NSF, RSC, BC ASI, PIMS, QNRF. She published 530-refereed journal and conference papers in signal processing. Her work was transferred to US and Canadian industries.

Rabab holds many firsts for women in engineering, e.g. the first woman appointed as professor in engineering in British Columbia, Canada (1981) and Zimbabwe (1975).

She is a Fellow of the Royal Society of Canada, IEEE, CAE and EIC. She holds the top research, mentoring, professional, and service awards from her university, IEEE Signal Processing Society (including the Society Award), various women's organizations, British Columbia's Association of Professional Engineers and Confederation of University Faculty Associations.

IEEE Accomplishments and Activities
(S'71-M'72-SM'85-F'99-LF'15)

IEEE COMMITTEES/BOARDS:
- Chair, TAB Ad-Hoc Committee on Africa and Education (2016-2017)
- Member-at-Large, TAB Strategic Planning Committee (2017), TAB Management Committee (2018)
- IEEE WIE Voting Committee (2018)

SOCIETY:
- President/President-Elect, IEEE Signal Processing Society (SPS) (2014-2017)
- V.P. Conferences, SPS (2003-2005)
- Member of SPS Board of Governors (2002-2005, 2008-2010, 2014-2017), Fellow Reference Committee (2008-2010), Conference Board (2006-2007), Editorial Board of *IEEE Signal Processing Magazine* (2006-2009)

REGION 7:
- Awards Committee (2013-2014, 2017)
- V.P. Western Canada (1990-1995), Canadian Society for Electrical and Computer Engineers (folded into IEEE)
- Co-founder, Vancouver SPS Chapter (2004)
- Chair, IEEE Vancouver Student Chapter (1985-1987)

IEEE CONFERENCES:
Chair/Co-Chair of:
- Canadian Conference on Electrical and Computer Engineering (2016)
- International Conference on Acoustics, Speech and Signal Processing (2013)
- International Conference on Image Processing (2000)
- International Symposium on Circuits & Systems (2004)
- Symposium on Signal Processing and Information Technology (2016)
- Multi-Media Signal Processing Workshop (2012)

MAJOR ACCOMPLISHMENTS:

1. Led IEEE TAB effort on Africa and Education; put 24 educational and professional development courses/workshops/tutorials in six African countries (2016-2017).
2. As President of SPS, introduced several programs targeting industry practitioners, chapters, young professionals and women, including the Distinguished Industry Speaker program, awards for industry and chapters, SPS Blog, educational webinars, travel grants for practitioners, and professional development events for young professionals.
3. Introduced a redesigned SPS website, enhanced SPS social media presence, extended the Student Career and the Women Luncheons to all SPS major conferences. Introduced special accommodations to allow all nationals affected by travel bans to participate in SPS conferences.
4. To broaden the visibility of engineering and signal Processing among high school students and the public-at-large, produced/directed six PR videos. The video "What is Signal Processing" received 45,000 hits on YouTube (in English, Spanish, Mandarin and Arabic). Another video "Under the Radar" won an award and was on the entertainment program of all Air Canada flights in 2017.

Statement

My priorities are to serve IEEE members worldwide and promote their career advancement.

If elected I will work towards:

1. Providing our members the means for upgrading their expertise, expanding their networks, and achieving leadership success. These include offering technical and professional advancement tutorials, practical workshops, hands-on training, on-line courses (with certificates upon successful completion), promoting mentoring of industry practitioners to students, strengthening/supporting local chapters, and creating more publications for industry practitioners.
2. Enhancing IEEE public relations with the media, government, and other organizations
3. Supporting outreach efforts to under-represented groups and promoting diversity and inclusivity regardless of gender, age, ethnicity, nationality and technical specialization
4. Facilitating mutual exchange among IEEE Societies, while respecting their differences and addressing their specific needs.

I will work diligently, listen to you and your Society, communicate your concerns to the Board and seek input from your Society on all related matters. As an IEEE volunteer for 30 years and having served on Boards of international organizations, I have the experience and leadership skills to enable improvements that benefit all members.

BARRY C. TILTON, P.E.
(Nominated by IEEE Region 2)

Chief Technical Officer and Vice President of Engineering
Vricon Systems LLC
Oakton, Virginia, USA
www.barrytiltonieee.org

Barry Tilton is Chief Technical Officer and Vice President of Engineering at Vricon Systems LLC. He has over 32 years' experience as an Electrical Engineer in the aerospace field, and is a Licensed Professional Engineer. A 20-year veteran of the US Air Force, he had over 1000 flight hours as test director, and worked as Chief Engineer, Chief Scientist, and Program Director for the US Defense and State Departments as well as several international efforts with countries on five Continents.

Barry earned his BSEE from USC and MSEE from Northrop University. He is a Senior Member of IEEE and AIAA, and a Fellow of the American Geographical Society. He was twice Chair of the IEEE Northern VA Section, and currently serves as the IEEE Region 2 Technology Policy Coordinator.

Barry is married to the former Elaine Belen, and has three children.

IEEE Accomplishments and Activities
(M'86-S'89-M'90-SM'05)

Barry C. Tilton, P.E. is a Senior Member of IEEE, who has both been involved with (and served in positions of leadership in) the organization and community for over 33 years. He has been a member of IEEE since 1986, and has been involved as a member, author, conference attendee and thought leader in the AESS and GRSS for most of that time, in Los Angeles, Colorado and Virginia. Upon retirement from the US Air Force, Mr. Tilton became active in leadership of several technical activities and MGA efforts in Region 2.

He has been Treasurer, Vice Chair and Chair (twice) of the NoVA Section of IEEE, and was recognized in 2010 as Volunteer of the Year. He Chaired the Joint NoVa/DC SSIT Chapter for two years. He has supported IEEE as representative to the Future Cities finals four times. He currently mentors the NoVa Section sponsored (and award winning) Oakton High School Robotics

Club. He has been Region 2 Technology Policy coordinator for over 5 years, actively addressing Region concerns in technology management and regulation from his proximity to the National decision makers.

Barry has served as Chair-Elect and Chair of the IEEE-USA Committee on Transportation and Aerospace Policy, where he took leadership roles in preparing the full technical programs for two successive IEEE-USA annual meetings. He has also run sessions at National and Region gatherings on many occasions. Barry has also actively supported the Government Affairs Committee of IEEE-USA for several years.

Statement

Greetings! I am honored to be a candidate for Director-Elect of our fine organization. Working within my Section, the Region, and with IEEE-USA has given me critical opportunities to grow. If given the opportunity to lead the Region, I will focus on three qualities…Vision, Involvement and Passion.

As the pace of change in our society accelerates, it is extremely challenging to succeed professionally when standards, policies and protocols are in constant flux. As leaders, we must have VISION – the ability to discern what changes will produce what results – and how to appropriately react and adjust.

Once the path forward is understood, we must be INVOLVED. It is not enough to take personal advantage of change, it is our professional responsibility to help society adapt to the changes for the betterment of all.

Finally, approaches to problem solving, outreach and community support must be infused with PASSION. Leading through change can be exhausting, and it is the passionate professional who will carry on – ensuring success.

I look forward to meeting with your Sections and Chapters.

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

Project Manager
Burns Engineering
Philadelphia, Pennsylvania, USA

Philip M. Gonski, P.E. has been active in both the volunteer and professional community in the Philadelphia Area. After graduating from the University of Illinois – Urbana, Philip started his career at Sargent & Lundy, LLC, designing new power plants. Among his notable projects were the design of a biodiesel power plant on the island of Oahu, and later the design of one of the largest combined cycle power plants in the world in Saudi Arabia. While working at S&L, Philip took evening courses in Energy and Power Engineering and earned a Master's Degree from University of Illinois-Chicago.

Philip currently works at Burns Engineering in downtown Philadelphia as a project manager for industrial and energy clients, with a focus on advanced microgrids.

In his free time, Philip enjoys the Philadelphia arts, traveling the world with his wife and jogging along the Schuylkill River Path, which runs through the heart of Philadelphia.

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

Philip has been an IEEE member for the past 13 years and is a Senior Member. During this period, he has served in the following volunteer positions:

- IEEE Philadelphia Secretary

- IEEE Philadelphia Treasurer

- IEEE Philadelphia Chairman (3 Years)

- IEEE Region 2 East Area Chair (Present)

During this volunteer work for the Philadelphia Section, Phil was instrumental in developing a new website for the Section that was better able to represent the dynamic nature of the region. During his tenure as IEEE Philadelphia Chair, the Section hosted multiple Arduino and STEM outreach programs, as well as the first IEEE WIE Summit.

He also organized a career fair that saw approximately 15 companies in attendance. The event was well attended and led directly to several IEEE members gaining employment.

In addition to IEEE involvement, Phil is active in other technical and outreach organizations and has been a volunteer at local science fairs and Future City competitions.

His work in the IEEE and Professional community culminated in his selection as the IEEE Philadelphia 'Young Engineer of the Year'.

Statement

Our Region has been incredibly fortunate to contain some of the most dynamic Sections, with dozens of quality conferences and professional events. These events, such as the IEEE WIE Forum, have been incredible at providing for the networking opportunities that are crucial to IEEE's continued viability.

My vision for the Region is one where both professionals and academics can find value in their membership. Perhaps the most critical, is for us to convince companies that there is value in sponsoring their employee's membership. As an IEEE member who made the transition from student member to full member, I know firsthand that justifying the personal expense of dues was difficult without corporate sponsorship. In fact, I am among those who did not renew their membership after graduation.

Like any organization, we need a value proposition to our members. I would plan to continue and build upon successful events, and help foster new initiatives for professional development and networking. The choice to join IEEE must be a clear one, which can only occur through increased outreach programs.

EMILIO M. SALGUEIRO
(Nominated by IEEE Region 2)

Adjunct Professor of Electrical and Computer Engineering
Temple University, and
Retired Consulting Engineer
Unisys Corporation
Philadelphia, Pennsylvania, USA
www.linkedin.com/in/emiliosalgueiro

Emilio Salgueiro's technical interests are in Computer Architecture, Performance, and Capacity Planning of large complex computer systems. He is Adjunct Faculty of Electrical and Computer Engineering at Temple University. He retired from Unisys Corporation after working very successfully as a Consulting Engineer for the System Analysis, Modeling and Measurement Performance Group. His area of expertise is in the private industry as well as Academia. As a Consulting Engineer Emilio worked in the System Performance Analysis and Capacity Planning, Manager in the System Analysis Modeling and Measurement department, and acted Director of Performance Engineering. Published MIPS ratings for all Unisys Mainframes. He obtained his academic education at the National University of Mexico (BSEE and BSME 1980) and Pennsylvania State University (ME ES, and post Master's in AI 1990). He authored many proprietary papers, managed a multi-year research agreement with PSU and four+ years as Lecturer at Pennsylvania State University Malvern Campus.

IEEE Accomplishments and Activities
(S'74-M'78-SM'90)

I have been an active volunteer for IEEE in multiple Boards and Committees. I currently serve as Region 2 Secretary; my participation in this position provided me with broad acquaintance with IEEE Region 2 structure, understanding of organizational units at the regional and technical level. I also served on the IEEE-USA Professional Activities Committees for Engineers (PACE) Committee representing Region 2 for many years, this provided me with good understanding of the IEEE-USA's structure, nationwide IEEE-USA's organization units at the national, regional and technical levels. I am very proud of supporting efforts to serve member interests with more programs, better communication and more opportunities for professional development. I also served on the Philadelphia Section Executive Committee in various positions, Chair, Vice Chair, Treasurer and Secretary. In the technical area, I am proud to be co-Chair of the Philadelphia Computer Society Chapter.

Statement

It is exciting to be nominated for Region 2 Delegate-Elect/Director-Elect during a time of change in our profession. Having worked at industry, academia, and served IEEE through multiple volunteer positions, has prepared me well for this role. Being retired from industry, gives me a great opportunity to serve better our Region.

I see great opportunities of growth for our region in the area of member retention, emphasis on high quality publications that meet the needs of practitioners, continuing education, and advocacy of the profession. Delivery of new benefits in innovative ways such as:

- Participation in the Industry Advisory Board.

- Moderated panels and tutorials to allow members remain globally competitive.

- Networking and Career opportunities to provide direct value to our members.

- Attract students at all levels on leadership and professional IEEE opportunities.

- Increase the number of volunteers from among our members by providing shorter, flexible and modular volunteer assignments.

Region 2 needs a Delegate/Director with the time, experience and expertise to identify strategies that can broaden our base. I ask for your vote, support and involvement.

JOHNSON A. ASUMADU, PE
(Nominated by IEEE Region 4)

Professor
Western Michigan University
Electrical and Computer Engineering Department
Kalamazoo, Michigan, USA

IEEE Senior Member, Active Volunteer for over 20 years at the Section and Regional Levels. Holds PhD Degree in Electrical & Computer Engineering from University of Missouri – Columbia. Has one foot in academia and the other foot in industry with over 23 years as faculty (Tuskegee University – Tuskegee, AL and Western Michigan University - Kalamazoo, MI) and over 20 years in industrial consulting, including the World Bank. Worked in research labs including US Air Force Research Lab. Has chaired Sessions of IEEE Societies' Conferences (PELS, PES, Control, IAS, IMS), reviewed conference papers and journal papers, and other special publications and reports. Published over 120 consulting reports, technical papers, conference records, journals, and holds Patents. Has been active member of 5 IEEE societies (PES, PELS, IE, & Control, Computer).

Very Instrumental in starting a new section of Square D Company (now Schneider) called PowerLogic for digital power measurement instrumentation.

IEEE Accomplishments and Activities
(S'83-M'87-M'93-SM'00)

IEEE ACCOMPLISHMENTS

SECTION:
- West Michigan Section: Treasurer , 2018
- West Michigan Section: Chair, 2014-2017
- West Michigan Section: Vice Chair, 2012-2013
- West Michigan Section: Awards & Recognition Committee Chair, 2002
- West Michigan Section: Student Activities, 2009
- West Michigan Section: Webmaster, 2008
- West Michigan Section: Educational Activities, 7/1997-06/1998
- West Michigan Section: Engineers' Week Steering Committee - IEEE Representative, 01/1999-03/2004
- West Michigan Section: Membership Development, 2005-2007, 2008-2013
- West Michigan Section: Acting Membership Development, 2013-2015

CHAPTERS:
- Western Michigan University Students Chapter: Counselor, 09/2002-12/2017
- West Michigan Society Power Electronics/Power & Energy Systems Chapter: Treasurer, 2016

REGION:
- Region 4: Awards & Recognition Committee Chair, 2017

- Region 4: Electronic Communications Coordinator, 2001-2002

CONFERENCES:
- 2000 1st IEEE/EIT2000 Conference Proceedings, Chicago, IL, June 8-11, 2000: Web Master/Organizing Committee Member
- 2000 1st IEEE/EIT2000 Conference Proceedings, Chicago, IL, June 8-11, 2000: Session Chair
- 2001 2nd IEEE/EIT2001 Conference Proceedings, Oakland, MI, June 6-8, 2001: Web Master/Organizing Committee Member
- 2004 35th IEEE Power Electronics Specialists Conference, Aachen, Germany, June 20-25, 2004: Session Chair
- 2011 IEEE Power and Energy Conference (PECI 2011), Urbana-Champaign, Illinois: Session Chair
- 2017 IEEE 3rd International Future Energy Electronics Conference and ECCE Asia, June 3-7, 2017, Kaohsiung, Taiwan: Session Chair

AWARDS & RECOGNITIONS:
- 1st IEEE/EIT2000 Outstanding Paper Award
- Member Recruitment and Recovery Committee Award for "*Outstanding Achievement in Member Recruitment for West Michigan Section During 2015 Membership Year.*"

VERY SIGNIFICANT ACHIEVEMENTS:
- One of the Founding Members of IEEE/Electro-Technical Conference in Region 4 which has grown to be very successful.
- Setup PES/PELS and Affinity Group Chapters in West Michigan Section.
- First to issue PDH Certificates to Members for attending Technical Activities/Distinguished Speakers events organized by the West Michigan Section.
- Saw the Growth of Electromagnetic Chapter.

Statement

SECTIONS/MEMBERSHIP, SECTIONS/MEMBERSHIP, SECTION/ MEMBERSHIPS!!!!!!

<u>GOALS:</u> **Sections Oriented Outcomes**

- Use R4 resources to help Sections form chapters and affinity groups. Valuable chapter is Power and Energy Society (PES). Work with IEEE to make changes needed to facilitate the formation of chapters and groups.
- Help Sections to provide certificates (PDHs and CEUs) to members who attend workshops/seminars/technical activities organized by the Sections.
- Sections may apply to R4 for resources in organizing social activities.
- Student Chapters: Use R4 resources to help student chapters for membership growth.
- Leverage the student chapters to support K–12 programs to promote interest in STEM.
- Work with MGA, IEEE-USA, and national IEEE to promote the interests of R4/Sections/Members
- Assist Sections in the same geographical area to organize technical activities together and share costs/resources. For example, Southeastern and Toledo Sections can share costs/resources if they organize technical activities in Ann Arbor (35 miles from Toledo).
- BRANDING: Is an IEEE Section in your area known? R4 assists Sections to register with the Better Business Bureaus in cities where Sections are located and active.

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

Strategy Leader
General Motors
Global Validation Department
Warren, Michigan, USA

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 Warren, Michigan, where he is Strategy Leader for Real-Time Control Systems Simulations within the Global Validation Department.

Dr. Lahdhiri is a Senior IEEE Member, licensed Professional Engineer (PE) in the State of Michigan, certified Project Management Professional (PMP) by the Project Management Institute (PMI), Black Belt DFSS certified by General Motors LLC, and holder of the Electrical Validation Journeyman and Vehicle Validation Apprentice Certifications, General Motors, Warren, Michigan, 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. He then moved to the Region and IEEE-USA levels, where he held the position of Region 4 Membership Development Chair, member of the IEEE RAB Industry Relations Committee (IRC), member of IEEE-MGA Nominations and Appointments Committee, IEEE-USA Career Workforce Policy Committee Career Outreach co-chair, and member of the IEEE-USA Employment & Carrier Services Committee. He is currently the Region 4 PACE Chair and Vice President of IEEE-USA Career and Member Services/Professional Activities.

Dr. Lahdhiri has been promoting 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 for Engineers, Design For Six Sigma (DFSS), Leadership Skills, Resume Development, Job Interview, Career Development, Job Transition. He provided more than 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, 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 to growth for our 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.

CHARLES M. JACKSON, Ph.D.
(Nominated by IEEE Region 6)

Staff Engineer
Northrop Grumman Aerospace Systems
RF and Mixed Signals Department
Redondo Beach, California, USA
http://charlie-jackson.com/

Charlie Jackson works at Northrop Grumman Aerospace Systems in Redondo Beach, California, as a senior staff member for the RF and Mixed Signal Department. Charlie has been active in a broad range of microwave and millimeter-wave technologies. After receiving his doctorate at UCLA, he worked at Hughes, TRW, Ditrans, Raytheon, and Northrop Grumman. While recovering from cancer, Charlie pursued a lifelong dream of designing and measuring the acoustical properties of woodwind musical instruments; he now makes them with 3D printing. Dr. Jackson supports space based programs; and is a product champion. Charlie is a Fellow of the IEEE, has 5 patents, and has published over 30 articles. He has been active in IEEE chapter, section, region, conference, and society activities. He received an award for his work in the Southern Area in 2017. Charlie has rolled up his sleeves and done the hard work at the chapter and section level.

IEEE Accomplishments and Activities
(M'83-SM'93-F'07)

REGIONS: Region 6, Southern Area Coordinator (2016-2018)

SECTIONS/CHAPTERS: Held all positions in the Coastal Los Angeles Section and MTT Chapter. Past treasurer for the CLAS Section; currently serving as treasurer for the APS and MTT Chapters. Various positions over the years from 1986 to present.

SOCIETIES: Past President of the IEEE-MTT Society. He is a member of MTT, APS, and UFFC. Led the MTT Digital Library project that digitized 50 years of Journals that eventually became part of IEEE Xplore (1997-1999). Led the project to translate *Microwave Magazine* articles into Spanish, Portuguese, and Chinese (2008-2010).

COMMITTEES/BOARDS: IEEE Meetings and Services Committee Chair (2003-2004).

CONFERENCES: SusTech 2018 local arrangements, Chair of 2005 International Microwave Symposium (IMS), 2010 RWW, 2013 IWS, and CLASTECH, a local MTT and APS Chapter meeting. Finance chair of the 1999 IMS.

OTHERS: Region 6 Award for Leadership & Professional Service Award (2015) based on his years of service to the Sections in the Southern Area. Chair of MTT committees - Nominations and Appointments (2008-2010), MTT Awards (2014-2016), MTT Strategic Planning (2009-2012).

MAJOR ACCOMPLISHMENTS

- Rejuvenated two dormant Sections and combined them to become the Coastal Los Angeles Section.

- Served in all Coastal Los Angeles Section elected roles. During his years of service, he supported the formation of 1-day conferences for the Systems Council Chapter, the Computer Society Chapter, and the MTT/APS Chapters. These provide networking opportunities for engineers in the area.

- Led the Coastal Los Angeles Section MTT and APS 1-day meeting for 10 years. This meeting allows engineers to hear interesting talks, and network with old and new colleagues.

- Chaired 3 major IEEE conferences. The largest was the International Microwave Symposium in Long Beach, in Region 6.

- Served 7 years as the CLAS treasurer.

Statement

Region 6 is an exciting place for IEEE members. It is a community of universities, companies, innovators, and consultants. To make Region 6 better, we need strategic decisions to choose what to keep, what to fix, what to cut, and what to add. Region 6 is part of the scientific revolution where a community exchanges ideas and develops technology that benefits humanity.

I want to support all phases of our careers, starting with students, young professionals entering the workforce, working engineers, and retirement. I'll develop better ways to support working engineers. I'll retire soon, and will be able to dedicate my time to the job.

With declining membership, a strong focus on membership development will be essential; I will be fiscally responsible and reduce overhead.

Conferences in Region 6 provide a tangible member benefit. I will:

- Support regional conferences including Rising Stars, SusTech, and GHTC.
- Improve society involvement with conferences.
- Work with TAB initiatives like the IoT and 5G.
- Help facilitate society conferences in Region 6.

I will give the Director position my undivided attention.

TIMOTHY T. LEE
(Nominated by IEEE Region 6)

Boeing Technical Fellow
The Boeing Company
Boeing Research and Technology
Los Angeles, California, USA
http://microwaves.guru

Timothy Lee is currently a Boeing Technical Fellow at The Boeing Company in Southern California and leads the development of disruptive microelectronics technologies for advanced communications networks and sensor systems for airborne and space applications. His current research interests include silicon Application Specific Integrated Circuits (ASICs) and gallium nitride Monolithic Microwave Integrated Circuits (MMICs), and 2.5D/3D heterogeneous integration/ packaging of microsystems. He led the development of hardware for satellite communications and phased-array antenna systems. He has over 36 years of experience and has held technical/managerial positions at research laboratories, aerospace companies, and semiconductor foundries. His innovations include the development of millimeter-wave MMIC transmitters and receivers. Lee has authored or co-authored over 30 technical journal and conference papers. He is an IEEE Senior Member. Tim holds B.S. and M.S. EE degrees from Massachusetts Institute of Technology and a M.S. in Systems Architecture and Engineering from the University of Southern California.

IEEE Accomplishments and Activities
(S'77-M'79-SM'03)

ACCOMPLISHMENTS:
- As Special Interest Group on Humanitarian Technology (SIGHT) Chair, inspiring members to do social good with technology
- As R6 Secretary/ Electronic Communications Coordinator, improving cross-regional Internet presence/communications
- As MTT-S Chapter Chair, Chapter revitalization and mentorship to YP/ students
- As IEEE 5G Co-chair, creating new technical community, products and services
- As IEEE 3I Internet Inclusion Chair, strategies for sustainable internet access for all
- As MTT-S President, captured emerging technologies, led cross-regional/ OU engagements

COMMITTEES/BOARDS:
- Member, IEEE Humanitarian Activities Committee 2016-Present:
  - Chair, HAC Projects 2018
  - Chair, IEEE SIGHT 2017
- Member, IEEE Smart Village Tech Committee 2015-Present
- IEEE Internet Initiative (3I) Adhoc Committee:
  - Chair, Internet Inclusion, 2017-Present
  - Chair, IEEE 3I Internet Inclusion: Advancing Solutions, WDC, April/ October 2017

TAB:
- Co-Chair, IEEE Future Directions 5G Initiative Committee
- Chair, IEEE 5G Roadmap TWG on millimeter-waves

REGIONS:

- R6 Secretary/ECC, e-Notice Coordinator, 2018
- Speaker at R6 IEEE Rising Stars Young Professional Conference, Las Vegas 2018
- HAC/SIGHT Speaker at Region/Section Meetings 2015-2018
- Speaker, 2017 Sections Congress, Sydney
- Speaker, IEEE Global Humanitarian Technology Conference 2015-2017

SECTIONS/CHAPTERS:
- Keynote: IEEE Young Professionals in Space, Bangalore Section 2017
- Speaker: MTT-S Chapter Chairs Meetings, Regions 1-6, 8, 10 2012-2017
- Coastal LA Section (CLAS): Student Activities Chair, 2009-2015 and MTT-S Chapter Chair, 2002-2004

SOCIETY(IES): (MTT-S, EP-S, AP-S, AESS, SSCS)

MTT-S:
- President 2015
- Chair, Strategic Planning, SIGHT, Budget, Electronic Communications, FDC-5G
- Member, MTT-6 Microwave and Mm-Wave Integrated Circuits Committee, 2010-Present
- Reviewer, T-MTT 2006-Present
- Walter N. Cox Award 2006

EP-S:
- Chair, Heterogeneous Integration Roadmap (HIR) TWG for Aerospace-Defense
- Keynote/Plenary Talks: 2017 SemiCon-West, 2017 Electronics Packaging Conference, 2018 HIR Symposium

CONFERENCES:
- International Microwave Symposium:
  - General Chair, IEEE IMS2020
  - Member, IMS Steering Committee and TPC, 2000-Present
- TPC Member: (2008-Present)
  - EuMW (R8), APMC (R10), LAMC (R9), ICMIM, IMARC (India), IWS (China)
- Finance Chair, IEEE Radar Conference, 2011, 2017
- General Co-Chair, IEEE MTT-S IMWS-5G 2018

Statement

The strength of IEEE is found in the spirit/capabilities of our members who represent professionals, students, high-tech companies and institutions. The challenge is to find a new relevance in a changing world and to increase membership value. I will use my skills and passion to serve our membership and position IEEE for the 21st century.

As change-agent, I will:

- Leverage Region 6 unity and technical/cultural diversity to foster exchange of ideas, community building, innovation and service to benefit Sections large and small.
- Develop product/services and awards/recognition programs to serve academics and practitioners throughout their professional lifecycle.
- Advocate initiatives for Sections, Chapters, Student Branches, Young Professionals, Women in Engineering and Life Members to develop the next generation of IEEE leaders.
- Expand Technical Activities in emerging technologies (5G/IoT and Machine Learning) to strengthen Sections/Chapters and attract new members.
- Motivate region-wide Humanitarian/SIGHT activities and STEM education.
- Reach out to industry, implementing engagement strategies for professionals and entrepreneurs with IEEE-USA
- Grow GHTC, SusTech and Rising Stars and attract technical conferences
- Promote accountability, transparency, inclusiveness, ethical behavior and trust.

RAFAL SLIZ
(Nominated by IEEE Region 8)

Academy of Finland Research Fellow and Industry Consultant
University of Oulu
Optoelectronics and Measurement Techniques Unit
Oulu, Finland
www.sliz.online

Rafal Sliz is an industry consultant and Research Fellow of Academy of Finland, conducting his research in the field of nanotechnology, flexible electronics and photovoltaics. He completed his B.Sc. degree in Electronics and Telecommunication at Silesian University of Technology, Gliwice, Poland. At the same time, he was working as a network architect and system administrator in several companies. For his M.Sc. and Ph.D. degrees, Rafal moved to Oulu, Finland, where he pursued research in wireless sensor networks and printed electronics in the Optoelectronics and Measurement Techniques Laboratory, University of Oulu. Throughout his scientific career, he was awarded with several grants and awards that allowed him to carry out research abroad, gaining exposure to the global process of advancing science and technology. He conducted long-term research at Flexible Display Center, Arizona State University, USA; London Centre for Nanotechnology, University College London, UK; Sargent Group, University of Toronto, Canada.

IEEE Accomplishments and Activities
(AF'08-S'08-M'08'-GSM'08-M'10-GSM'10-M'12-GSM'12-M'13-GSM'13, M'14-SM'15)

Serving in numerous positions throughout IEEE has afforded me an inside look into what our members and volunteers really need. Consequently, the "less talk, more action" approach, focusing on increasing the value of IEEE membership, resulted in the following accomplishments:

Global:
- Developed a multimillion-dollar set of IEEE projects that provide tangible benefits and services to IEEE members and volunteers.
- Created strong collaboration ecosystem between major IEEE Boards (MGA, TAB, PSPB, EAB) to better serve members and volunteers.

Region:
- Created an environment where culturally diverse motivated volunteers can work together to advance IEEE.
- Developed programs and initiatives to enhance cooperation between membership-oriented subcommittees.

Section:
- Revitalization of several units within Finland Section, including AGs, SBs and Chapters.
- Created an active team of motivated volunteers: academics and industry representatives, and led activities that resulted in increased member retention and volunteer satisfaction.

Awards and recognitions:
- Volunteer medal of recognition by three consecutive IEEE Presidents (2016-2017-2018).

- MGA Young Professionals Achievement Award for outstanding volunteer development and member-focused contributions to the IEEE Finland Section, Region 8, and IEEE Young Professionals, 2016.
- Received the 2011 MGA Hall of Fame Award as Finland GOLD Chair.

IEEE ACTIVITIES

IEEE Committees:

- IEEE Board of Directors:
    - Liaison appointed by the IEEE President, May 2017-present
- Member and Geographical Activities Board:
    - IEEE Young Professionals Chair, 2017-present
    - IEEE MELCC Committee, 2017-present
- Technical Activities Board:
    - Committee on Society Membership, 2018-present
    - IEEE at North and South Poles Committee, 2017
- Educational Activities Board:
    - N&A Committee Member, 2016-present
- Region 8:
    - Committee Member as Section Chair, 2014-2015
    - Young Professionals Subcommittee Chair, 2013-2014
    - GOLD Subcommittee Member, 2011-2012
- Section:
    - Finland Section Chair, 2014-2015
    - Finland Section Vice-Chair, 2012-2013
- Conferences:
    - IEEE Eurosim 2016 Conference Organizing and Program Committees Member
    - IEEE Innovation Camp Chair, 2014
    - IEEE Summer School on Flexible Solar Cells Chair, 2012

Statement

As Region 8 Director, I will adopt a "less talk, more action" approach, focusing on increasing the value of IEEE membership by supporting and initiating data-driven, sustainable projects that will focus on:

- Better understanding the diversity and needs of members in our Region, instead of relying on generic IEEE data, which does not reflect our Region accurately, and develop and execute projects that will address these needs specifically.

- Utilizing our networking potential as a trans-national organization to create a strong bond between academia and industry, with an emphasis on entrepreneurship efforts.

- Increase the impact IEEE members have on their communities, giving value to our Region's diversity, by supporting policy-related initiatives and humanitarian activities.

- Providing tangible member-relevant benefits, such as seamless access to scientific content, accreditation, career opportunities, and continuous education.

- Enabling our members and volunteers by providing diverse membership models and a novel volunteering environment to make volunteering less troublesome, more rewarding and attractive, especially for Students, Young Professionals and other underserved groups.

For more details, please visit www.sliz.online.

ANTONIO LUQUE
(Nominated by IEEE Region 8)

Associate Professor
Electronics Engineering Department
University of Seville
Sevilla, Spain
http://www.antonioluque.org

Antonio Luque was born in 1976. He received the M.Sc. and Ph.D. degrees in electrical engineering from the University of Seville, Seville, Spain, in 2000 and 2005, respectively. Since 2011, he holds the position of Associate Professor in the Department of Electronics Engineering, University of Seville. He has authored 20 journal papers, 40 conference papers, 3 book chapters, and a text book, in addition to supervising two PhD students.

He has been invited researcher and teacher at the Swiss Federal Institute of Technology Lausanne (Switzerland), Auburn University (AL, USA), Delft University of Technology (Netherlands), Jade University (Germany), Harbin Institute of Technology (China) and Tech Institute of Monterrey (Mexico). He was a recipient of the Burgen Scholarship from the Academia Europaea in 2007. His current research interests include microelectromechanical systems, sensors and actuators, IoT, and biomedical applications of microsystems.

IEEE Accomplishments and Activities
(M'03-SM'08)

IEEE Selected Activities.

Major Boards and Committees: MGA Membership Recruitment and Recovery Committee member 2012-2018, **Chair** 2015-2016; MGA Marketing Automation AdHoc Committee, member 2016; MGA IT Coordination and Oversight Committee, member 2017-2018; TAB AdHoc Committee on Bounded Rationality, member 2018.

Region: R8 Membership Development **Chair** 2013-2014, R8 Membership Development Committee member 2012-2016; **R8 Vice Chair** Member Activities 2017-2018.

Section: Spain Section, GOLD **Chair** 2008-2009; Membership Development Officer 2010-2011; Secretary, 2012-2013; Vice-chair and Chair-Elect 2014-2015; **Chair** 2016-2017; Past Chair 2018.

Conferences: General Chair of ICIT 2015 Seville (Spain), ICIT 2016 Taipei (Taiwan), CPE-POWERENG 2017 Cadiz (Spain); Technical Program Chair of ICIT 2011 Auburn, AL (USA), ICIT 2013 Cape Town (South Africa), ISIE 2013 Taipei (Taiwan), ICIT 2014 Busan (Korea), ISIE 2018 Cairns (Australia). International Advisory Board member of AMC 2020. Special Session Chair of INDIN 2018 (Porto, Portugal), IECON 2018 (Washington DC, USA).

Publications: *IEEE Industrial Electronics Magazine*, Editorial Board Member 2016-2017; *IEEE Journal of Microelectromechanical Systems*, Associate Editor 2013-present; *IEEE Transactions on Industrial Electronics*, Associate Editor 2014-present.

Societies: Industrial Electronics Society, **Chair** Web & Information Committee 2007-2011; Industrial Electronics Society, **Vice President** for Workshop Activities 2016-2018; Industrial Electronics Society, AdCom member-at-large 2011-2015; Industrial Electronics Society, Publications Committee member 2013; Industrial Electronics Society, Technical Committee on MEMS & Nanotechnologies, **Chair** 2007-2008; Nanotechnology Council, AdCom member 2013-2015; Member of Education Society, Electron Devices Society, Industrial Electronics Society.

Statement

IEEE is built by its members and its volunteers, and we need to count on them to serve the profession, the society and humanity as a whole. My experience in the different parts of IEEE allows me to understand the technologies we develop, the needs of our members and potential members, and the diversity in geography, culture and finances in Middle East, Africa and Europe.

My main aims will be:

- Foster volunteering inside the Region, welcoming anyone who wishes to participate.
- Strengthen the links between Technical and Geographical activities.
- Provide students and Young Professionals the tools they need to be engaged and help them in their career development.
- Keeping the members informed without overloading them. Improve transparency at all levels.
- Use the cultural and geographical diversity of the Region as a strength.
- Be more relevant to industry, promote the creation of standards useful in the Region areas.
- Connect members professionally and technically in ways they need in their careers.
- Cooperate with other professional and technical organizations.

DEEPAK MATHUR
(Nominated by IEEE Region 10)

Deputy General Manager
Oil and Natural Gas Corporation Limited (ONGC)
Ahmedabad, Gujarat, India
https://deepakmathur.in/

Deepak is Deputy General Manager in India's top Oil and Gas Exploration and Production Company - ONGC.

In his 35-year professional career, he has worked in fields of electronics, telecommunication, IT infrastructure and has held various engineering and managerial positions. He has successfully done planning and executions of several IT projects like SCADA, on-line/real-time monitoring systems, IT Infrastructure creation, Wi-Max based broadband wireless access system, GPS/GSM based vehicle tracking system etc. and has led teams of IT professionals and multi-disciplinary teams.

Presently he is working on Hi-Tech (Oil) Well Logging Systems to analyze the properties of subsurface to explore the possibility of hydrocarbons.

Deepak has BE in Electronics and Communications from IIT, Roorkee and an MBA. He has also completed Advance Management Program from IIM, Calcutta.

Presently he is IEEE Region 10 Vice-Chair of Membership Activities, and recipient of 2008 Region 10 Outstanding Volunteer Award and 2010 MGA Achievement Award.

IEEE Accomplishments and Activities
(M'96-SM'04)

IEEE Activities

COMMITTEES/BOARDS: Member, IEEE MGA Strategic Direction & Environment Assessment Committee (2014-2015); Member, IEEE MGA Nominations & Appointments Committee (2016-2017); Chair, IEEE SIGHT Operations Subcommittee (2014-2016)

REGION 10: Sections Congress Coordinator (2008); EXCOM Member (2009-2014, 2017-2018); Chapters Coordinator (2009-2010); Sections Congress Coordinator (2011); Vice-Chair, Technical Activities (Acting); Humanitarian Technology Activities Coordinator (2012, 2013-2014); Vice-Chair, Membership Activities (2017-2018)

GUJARAT SECTION: EXCOM Member (1998-2002); Secretary (2003-2004); Vice-Chair and Treasurer (2005); Chair (2006-2007); SMC Chapter Chair (2008-2009); Advisory Committee (2015-2017)

INDIA COUNCIL: EXCOM Member (2006-2012); Chair-Elect (2013-2014); Chair (2015-2016); Immediate Past-Chair and Nomination Committee Chair (2017-2018)

SSIT (Society on Social Implications of Technology): Board of Governors

(2013-2015); Newsletter Editor (2011-2016)

CONFERENCES: (Organized major conferences): Region10 HTC 2013; Region10 HTC 2014; INDICON 2013; INDICON 2014; INDICON 2015; INDICON 2016

AWARDS: 2008 Region 10 Outstanding Volunteer Award; 2010 MGA Achievement Award

OTHER: Initiative leader IEEE NIC Project – Conference Presentations Online completed in 2008

Recent IEEE Accomplishments

As India Council Chair, developed strategies and provided leadership for sustainable growth of India Council (having 11 sections) catering to 46000+ members. Started and encouraged participation of Young Professionals and WIE on all India level.

As Region 10 Chapter Coordinator, encouraged engagement of R10 members through enhanced Chapter activities. Achieved significant growth – formation of (100+) new chapter/joint chapters, reduction in inactive chapters (16% to 3%), with strategic planning and continuous follow-up.

As Region 10 Humanitarian Activities Coordinator, promoted new concept of Special Interest Group on Humanitarian Technology (SIGHT). R10 became most successful region in implementing SIGHT and its programs. Initiative for 14 special SIGHT projects in R10 Sections.

Reviewed 100+ petitions and encouraged SIGHT formation globally as Chair of SIGHT Operations Subcommittee. Developed SIGHT Operations Manual (draft).

Revived Society on Social Implications of Technology's (SSIT) *SSIT Newsletter* in 2011 and served as its editor for 6 years.

Statement

Region10 is unique as it is culturally very diverse and spread over large areas. Region10 is growing and still has potential for further growth. Its volunteers and organizational units are very vibrant and contributing immensely in the growth of IEEE.

As Region10 Director, my priorities shall be to:

- Work with IEEE/MGA for more opportunities, recognitions and benefits for Region10 members representing approximately 30% of total IEEE membership.
- Streamline Region10 conferences ensuring quality and work on strategy to bring more international IEEE flagship conferences in the countries of Region10.
- Enhance member value, member satisfaction through Section/Chapter collaborative programs.
- Promote industry academia partnership programs.
- Create more leadership opportunities for Young Professionals (YP) and Women.
- Devise programs for Students and YP, where YP helps students in their career growth.
- Promote sustainable 'Humanitarian Technology' projects.

My experience as volunteer leader along with my professional experience of effective planning, budgeting, forming sustainable growth strategies, motivating and guiding team for efficient execution of projects/activities, will help me immensely in this position.

NORLIZA M. NOOR
(Nominated by IEEE Region 10)

Associate Professor
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://bit.do/norliza

Norliza Mohd (abbreviated for Mohamed) Noor is Associate 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 image processing 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) – Student Educational Resources Committee (SERC): 2017
- IEEE Members Benefit Portfolio Activity Committee (MBPAC): 2017
- IEEE MGA Geographic Unit Operations Support Committee – Technical Chapter Representative: 2015-2016

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

SECTION:
- Chair, IEEE Malaysia Section, 2013-2014
- Past Chair, IEEE Malaysia Section, 2015-2016

- Chair, IEEE Malaysia Section Awards & Recognition Committee, 2015-2016
- Honorary Secretary, IEEE Malaysia Section, 1998-2001
- Honorary Treasurer, IEEE Malaysia Section, 2002-2002

CHAPTERS:
IEEE Signal Processing Society (SPS) Malaysia Chapter
- Chair, 2002-2006
- Past Chair, 2007-2013

IEEE Engineering in Medicine and Biology Society (EMBS) Malaysia Chapter
- Honorary Treasurer, 2010-2012 and 2014-present

CONFERENCES:
- Conference General Chair, 2017 IEEE Region 10 Conference (TENCON2017)
- Conference Co-Chair, 2014 IEEE Region 10 Symposium (IEEE TENSYMP 2014)
- A committee member for TENCON 2000, an IEEE Region 10 (Asia Pacific) International Conference (Secretary & Local Arrangement).

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 R10 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 important factor in membership growth.
- I will increase the number of grants, especially to SAC, EAB, WIE, YP, HTA and Professional Activities, so that more volunteers will be able to conduct impactful activities that will directly contribute to 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:
- R10 Delegate-Elect/Director-Elect Candidate 2019-2020 website: http://bit.do/norliza
- Personal website: razakschool.utm.my/norliza

ZIAUDDIN "ZIA" AHMED
(Nominated by IEEE Region 10)

Consultant
Burnside, SA, Australia
www.linkedin.com/in/dr-zia-ahmed-ieee-volunteer

Dr. Zia Ahmed holds degrees of B.Sc (Hons), M.Sc and MPhil in Physics and PhD in Electrical Engineering. His professional career spreads over more than 35 years. After research and teaching at universities from 1978 to 1989, he moved out of academia for a career in project management, test & evaluation of hardware and development of strategies for risks management & mitigation for technical projects. He has also been responsible for the performance management of engineers working on various technical projects under his supervision. Serving at senior positions Zia has attended residential training programs for executive leadership responsibilities. Zia's research interests include system level digital modeling and simulation and DSP. He currently works as part-time consultant and intends to fully retire by end of 2018.

IEEE Accomplishments and Activities
(M'93-SM'17)

My IEEE volunteer work of last 25 years consist of:

IEEE MGA Board
- 2008-2012 Editorial Advisory Board member of IEEE newsletter *The Institute*
- 2009-2011 Member, MGA Awards & Recognition Committee

Region 10 EXCOM
- 2016 R10 Newsletter Editor
- 2015 R10 Awards Coordinator
- 2015 R10 Fifty Years Celebration Planning Coordinator
- 2014 R10 Sections Congress Coordinator
- 2013-2014 R10 Strategic Planning Coordinator
- 2007-2012 R10 Newsletter Editor
- 2007 R10 Electronic Communication Coordinator

IEEE Australia Council
- 2017-2018 Council Chair (current)
- 2015-2016 Council Secretary
- 2011-2012 and 2009-2010 Council Vice Chair
- 2007-2008 Council Treasurer

IEEE South Australia Section
- 2005-2006 Section Chair
- 2002-2005 Section Vice Chair

- 2000-2001 Section Treasurer
- 1992-2007 Committee Member

My accomplishments included:

1. **R10 Newsletter** – Transformed the R10 Newsletter into an effective communication medium and attracted advertisements to generate revenue by on time publications of high standard contents regularly for seven years (2007-2012, 2016).

2. **R10 History** – On the 40th anniversary of R10 I researched and collected region's history, and published it as a comprehensive special supplement in 2008.

3. **Strengthening the Fabric of R10** - My contributions were recognized by the 2009 IEEE MGA Achievement Award with the following citation: *"For enhancing the exchange of information between members and geographic units by increasing opportunities for collaboration through the Region 10 Newsletter."*

4. **R10 Awards** – In 2015 I streamlined R10 Awards program with proper documentation and consolidated all R10 awards into one major awards program for consistency in recognitions and also improved the nomination process. Also introduced a new award for Subsections to encourage vitality and Subsections' growth.

5. **Australia Council Women In Engineering Forum** – As the IEEE Australia Council Chair I have created an Australian WIE AGs Forum to facilitate collaboration among all WIE Affinity Groups in the country and promote joint activities such as WIE International Leadership Summit in 2018.

Statement

I have had the privilege of serving R10 EXCOM for ten years, allowing me to interact with members from all over R10 and learn immensely about the region and core issues of importance to members. R10 is diverse and so are our needs but the goals are same i.e. to make IEEE membership professionally and personally beneficial. It is therefore important that we focus on meaningful member engagement opportunities leading to rewarding association with IEEE. We must cater for the high standards of knowledge and technical skills required by our members in today's extremely competitive world. If elected, my main priorities for R10 are:

- **Safeguarding members** against bogus/substandard conferences by effective scrutiny and approval/sponsorships processes,

- **Improved transparency** in financial management and allocation of flagship events to Sections,

- **Enhanced collaboration** with industry and local government departments through mutually beneficial programs,

- **Additional activities** for Young Professionals, WIE and students including opportunities for enhancing technical and interpersonal skills for brighter career prospects,

- **Enhancements in R10 Awards program** with supporting material and training for Section leaders to nurture talent.

MARK EPSTEIN
(Nominated by IEEE Standards Association)

Senior Vice President – Development
Qualcomm Incorporated
San Diego, California, USA

Mark Epstein received a Ph.D. from Stanford and M.S. and B.S. degrees from M.I.T. He has been a Fellow at Harvard. As a Senior Vice President at Qualcomm, he is involved with standards activities and the development of wireless communications products. Previously, Mark was Deputy for Communications, Command, Control and Intelligence (C³I) in the Office of the Secretary of the Army, where he guided the Army's electronics programs. Earlier, he had engineering management responsibilities at Computer Sciences Corporation and Northrop.

Mark currently is on the IEEE-SA Board of Governors and the SA Corporate Advisory Group, and he has served on the Standards Board. Outside the IEEE, Mark is on the Boards of ATIS, TIA and the US ITU Association. He is a trustee at MIT and the Washington D.C. Shakespeare Theatre Company.

Dr. Epstein has 5 publications and 1 patent.

IEEE Accomplishments and Activities
(S'60-M'68-SM'84-LS'09)

I am a member of the IEEE Power and Energy, Communications and Computer Societies.

My IEEE standards involvement began with my working on 802.20, a standards project for an advanced wide area wireless communications system. This led to my being a member of RevCom, NesCom and then the Standards Board. On these committees, I have tried to encourage keeping the standards process as easy and as fast as possible.

My Standards Board responsibilities evolved to membership on the IEEE-SA Corporate Advisory Group, where I encouraged standards working group participation on either individual or a company bases. I also supported increased IEEE global outreach activities. My Standards Board activities led to my election to the IEEE Standards Association Board of Governors and many leadership roles on its committees and that of the IEEE.

I chaired the SA Strategic Planning and Portfolio Management Committee for many years and led efforts to provide better service to our members. I also served on the IEEE New Initiatives Committee and these SA Board of Governor committees:

- Awards and Recognition Committee
- Board of Governors Ad Hoc Council
- Fellows Committee
- Nominations and Appointments Committee
- Corporate Advisory Group
- SA Representative to the ISTO Board of Directors
- ICAP Steering Committee
- Standards Conduct Committee
- Strategic Planning Advisory Group
- Global Coordinating Committee
- Chair of Ad Hoc on Global Standards Collaboration
- Chair of Ad Hoc on Corporate Member Value Proposition
- Chair of Ad Hoc on Member Retention

In all of the above committees, I encouraged the Standards Association to improve services to its members and provided my perspectives on manufacturing, intellectual property rights and international activities. My objective is always to ensure that the IEEE Standards Association remains the best place for standardization of new ideas and technologies.

Statement

As a member of the IEEE Standards Association Board of Governors, I will continue to strive to further enhance the international recognition of the IEEE and the reputation of the Standards Association as the best place for technically excellent and market relevant standards. It is important that the IEEE-SA receive perspectives outside the IEEE in the areas of manufacturing, IPR and international activities. Future technical standards will be increasingly affected by changes in policies that will be influenced by court rulings, actions of government agencies and rulings of international organizations. I will bring to the Board of Governors my long experience in all these key areas through my involvement in outside standards-related organizations such as ATIS, TIA, USITUA, GSC and the ITU.

GLENN W. PARSONS
(Nominated by IEEE Standards Association)

Standards Advisor
Ericsson Canada, Inc.
Ottawa, Ontario, Canada
https://www.linkedin.com/in/glennwparsons/

Glenn Parsons is an internationally known expert in networking, including mobile transport and Ethernet technology. His engagement in numerous standards bodies over the last 25 years provides him with tools, connections, experience and understanding of a wide range of standards activities.

Glenn is a standards advisor in the Systems & Technology Unit of Ericsson Canada, where he coordinates standards strategy and policy for Ericsson, including network architecture for 5G radio transport networks. Over the past number of years, he has held several management and editor positions in various standards bodies including IETF, IEEE, and ITU-T. He is currently involved with 5G transport standardization in MEF, IEEE and ITU-T and is chair of IEEE 802.1. He is a Technical Editor for IEEE Communications Magazine and Editor-in-Chief for IEEE Communications Standards Magazine. This year he was also appointed to be a member of the new IEEE Industry Engagement Committee.

IEEE Accomplishments and Activities
(S'90-M'95-SM'04)

IEEE Committees/Boards: IEEE Industry Engagement Committee, Member, 2018; IEEE Ad Hoc Committee on Internet Initiative, Member, 2016; EAB/SA Standards Education Committee, Member, 2015-2017; EAB Standards Education Committee, Member, 2016-2017; Magazines Committee, 2016-present; Charles Proteus Steinmetz Award Committee, Member, 2015-2018; COM-Publications, *Standards Magazine* Editor-in-Chief, 2017-present.

IEEE Standards Association: IEEE-SA Board Of Governors, Member-At-Large, 2011-2012, 2015-2016; IEEE-SA Board Of Governors, International SDO Advisory Group, Chair, 2013-present; IEEE-SA Registration Authority Committee, Chair, 2010-2012, Past-Chair, 2013-present; IEEE-SA Corporate Advisory Group (CAG), Member, 2014-2018; IEEE-SA Standards Board, Member, 2005-2009, 2014-2015; IEEE-SA Standards Board Audit Committee (Audcom), Chair, 2007-2008 and Member, 2009-2010, 2014-2015; IEEE-

SA Standards Board New Standards Committee (NesCom), Member, 2004-2007, 2010, 2017; IEEE-SA Standards Board Patent Committee (PatCom), Member, 2014-2016; IEEE-SA Standards Board Procedures Committee (ProCom), Member, 2006-2008, 2014-2015; IEEE-SA Standards Board Review Committee (RevCom), Member, 2009; IEEE-SA Standards Board Appeal Pool, Member, 2006-2009.

I have spent over 15 years as an active participant in IEEE 802. As editor of several IEEE 802 standards I received several awards for outstanding contribution. In 2014, my leadership was recognized when I was elected the chair of 802.1, and I have since driven promotion of Time Sensitive Networking (TSN) in the industry.

I have led a number of series for *IEEE Communications Magazine* and in 2014 was appointed Editor-in-Chief of the new *IEEE Communications Standards Magazine*.

During my recent term on the IEEE-SA BOG, I encouraged IEEE membership into the Global Standards Collaboration (GSC), and led the volunteer team that hosted a successful IEEE GSC-21 at our new office in Vienna. In addition, I continue to lead the International Standards Development Organization (SDO) Advisory Group of the BOG. This group manages the relationship of IEEE-SA on the international SDO stage with ITU, ISO and IEC.

Statement

The IEEE-SA is internationally recognized as producing technically excellent standards that are globally relevant. In order to maintain this position and to grow beyond, we need to focus on internationalization and public policy.

We must continue to drive collaboration and joint publication with other global standards bodies. But we must also focus on using our strong technical base to solidify our status as a peer with the other international bodies.

International standards bodies engage on public policy with each other and with various inter-governmental bodies – IEEE-SA must do the same. We must continue to ensure that IEEE-SA is viewed as a favorable venue to create standards that the global market will adopt.

To drive an ongoing improvement of IEEE-SA, I bring to the board my broad experience in these areas, as well as first-hand experience in the sensibilities and sensitivities of many international standards bodies and stakeholders.

ROBBY ROBSON
(Nominated by IEEE Standards Association)

Co-Founder and CEO
Eduworks Corporation
Corvallis, Oregon, USA
www.RobbyRobson.com

Robby Robson is a technology innovator, researcher, and entrepreneur who has contributed to and held leadership positions in multiple standards organizations. He is co-founder and CEO of Eduworks Corporation, a company that applies AI and text analysis to improve human performance, and serves on the IEEE Standards Association's Standards Board, IEEE Future Directions Committee, and IEEE Computer Society Standards Activities Board. Robby has held research fellowships in the US and Europe and has made foundational contributions to mathematics related to control theory and cryptography as well as to the development and evolution of modern learning technology. He is past chair and current vice chair of the IEEE Learning Technology Standards Committee and is currently working across the military, corporate, and academic sectors on open source and commercial products related to credentials, competencies, and career management. Robby has a BA from Hampshire College and a Ph.D. in Mathematics from Stanford.

IEEE Accomplishments and Activities
(A'99-M'00-SM'05-SM'11)

Committees & Boards: IEEE Learning Technology Standards Committee (Chair 2000-2008, Current Vice-Chair 7919 WG Chair); IEEE Computer Society SAB (Vice-Chair and P&P Chair 2002-2018); IEEE-SA Standards Board (2008-2009, 2017-2018); NesCom (2008-2009); RevCom (2017-2018); Industry Connections (IC) Committee (2017-2018); IEEE Future Directions Committee (2016-2018); IC Actionable Data Book (2015-2017), Big Data Governance and Metadata Management (2016-2017); IEEE-ISTO Learning, Education, and Training Systems Interoperability Committee (2009-2011); Industry Connections Industry Consortium for Learning Engineering (ICICLE) Steering Committee (2018); IEEE TAB Standards Committee (2018); IEEE-SA Ad Hoc on Open Source (2018); IEEE Symbiotic Autonomous Systems Steering Committee (2018).

IEEE Accomplishments:

- Chaired and made technical contributions to the IEEE Learning Technology

Standards Committee at a critical time when standards enabled the launch and growth of the global learning technology industry. Took over a committee that had yet to ballot a standard; hibernated unproductive WGs; facilitated the production of standards supported by industry and academia; and successfully managed relationships with related international SDOs.

- Helped improve efficiency and effectiveness of the IEEE Computer Society Standards Activity Board by developing P&Ps that clarify and define its separate roles as an oversight committee and standards sponsor. Contributed to abridged P&Ps for IEEE-SA Industry Connections to remove unnecessary complexity and formality from Industry Connection activities.

- As IEEE-SA representative to the IEEE Future Directions Committee (FDC), initiated a survey of FDC standards activities; helped define and launch Big Data Governance and Metadata Management activity; and helped define policy that promotes the IEEE-SA role in FDC activities.

- Helped start www.ieeeicicle.org that is introducing and promoting the discipline and profession of "Learning Engineering." Chairing subcommittee that is organizing the first international conference on Learning Engineering.

IEEE Publications: *"A Student-Centered Feedback Control Model of the Educational Process."* Frontiers in Education Conference, 2000. *"Globalization and the Future of Standardization."* *IEEE Computer Magazine*, July 2006. (See also http://bit.ly/robbycites.)

Statement

If elected to the IEEE-SA Board of Governors, I will work hard to maintain and expand the IEEE's position as the premier producer of global standards and other consensus products. I have done this successfully in the field of learning technology and continue to do this via contributions to the IEEE Future Directions Committee and to initiatives such as blockchains and symbiotic autonomous systems. I have standards governance experience, business and technical expertise, and a broad perspective gained from working internationally across academia, industry, and government. I strongly believe in the benefits of market-driven standardization in supporting the IEEE mission of advancing technology for humanity, and I will advocate for revenue models and organizational structures that support this mission. I will do my best to ensure that all IEEE member interests are well-represented on the IEEE-SA BOG and would be honored by your vote!

JUN YU, Ph.D.
(Nominated by IEEE Standards Association)

Co-Director General
State Grid Corporation of China (SGCC)
Department of International Cooperation
Beijing, China

Jun Yu received his dual BS degrees in Electrical Engineering and Economics and MS degree in Electrical Engineering from Tsinghua University in 1991 and 1994. He received Ph.D. in Electrical Engineering from Texas A&M University in 2000 and then worked at ERCOT for seven years. During this period, he served successively as Supervisor of Market Analysis, Market Architect, and Manager of Business Architecture & Technology. From 2006 to 2011, he became the deputy director general of China National Power Dispatching and Communication Center. From 2011 to 2014, he was the senior vice president of State Grid International Development Limited. Currently, he is the co-director general of the department of international cooperation of SGCC, responsible for the overseas assets operation and international academic activities. Dr. Yu is actively involved in international standardization activities, through which, he gains a deep understanding of the need of standards developers and that of stakeholders.

IEEE Accomplishments and Activities
(S'98-A'00-M'02-SM'05)

Dr. Jun Yu joined IEEE in 1998 as a student member and he has been an IEEE Senior Member since 2005. He served as IEEE SA CAG (Corporate Advisory Group) member since 2015. He has been actively involved in many IEEE SA CAG activities, which has highly enhanced the visibility of IEEE SA CAG in both the region and the electric power industry.

Through years of participation, Dr. Yu gained a deep understanding of which standards are highly needed by the industry. Under his leadership, SGCC has initiated 16 IEEE standards up to now. All of these standards touch upon the very emerging and important technical fields, covering Ultra High Voltage (UHV) Transmission, Smart Grid, Energy Storage, Micro-grid, and especially those support to build the new generation of power grid, which will surely facilitate the energy transition.

With constant efforts, Dr. Yu further promoted the strategic cooperation between IEEE and SGCC. In November 2017, SGCC and IEEE signed an MOU

in Beijing for the purpose of promoting mutual understanding and enhancing the development of long-term, stable, and comprehensive cooperation between SGCC and IEEE, through which, SGCC became a Senior Corporate Member of IEEE and IEEE PES (Power & Energy Society) at the same time.

For each IEEE PES General Meeting, Dr. Yu personally organizes SGCC experts to both participate and present at the event. At each PES general meeting, under his proposal and efforts, several panels were successfully set up and opened for all participants. He also chaired some of the panels, including super session. All of these panels addressed the hot topics and emerging trends in the power industry and welcomed by all participants.

Statement

No matter we realize it or not, standards are there to reduce costs, build reach, improve quality, simplify process, accelerate innovation, and develop insights. In my role now at SGCC, I have found an ever-increasing importance of international standards. This has in turn led me to recognize the key roles that IEEE and the IEEE Standards Association (IEEE-SA) play in today's world.

Personally, I have been actively involved in standardization activities for a long time, through which, I have gained a better understanding of the needs of standards developers, as well as the needs of different stakeholders. I would very much welcome the opportunity to serve on the IEEE-SA BOG, to share these experiences as well as the combined experience of SGCC, to support the IEEE-SA in fulfilling its mission and the development of the whole IEEE community at large.

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

Distinguished Engineer and Senior Staff Manager
Northrop Grumman Aerospace Systems
Irvine, California, USA
http://tpe101.strikingly.com/

Don is Distinguished Engineer and Senior Staff Manager with Northrop Grumman Aerospace 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 an authority in space power management.

He has delivered about 50 keynotes and invited talks and served on many national and international funding review and prestigious position selection committees. His Adiabatic Point-of-Load Technology has attracted US$15M customer funding in 5 years and his power product line values at greater than US$200M. His double forward technology was licensed to a major telecommunications company.

His major awards and recognitions: IEEE PELS Harry J. 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 Board of Directors, 2017-2018. IEEE Transportation Technologies Award Committee, 2017-. TAB/PSPB Products Committee, 2016. TAB Awards and Recognition Committee (TABARC), 2015. 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. PELS President, 2013-2014. *IEEE Journal of Emerging and Selected Topics in Power Electronics*, EiC (founding), 2013-2018. PELS Vice President for Operations, 2009-2012.

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-; **Inaugural WiPDA**, Honorary General Chair, 2013;

PwrSoC, Founding Steering Committee Member, 2012; **WoW**, Steering Committee Chair, 2014-; **eGrid (eT&D)**, Steering Committee Chair, 2015-.

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 VP Operations, revitalized IEEE PELS technical activities by providing streamlined structure and more autonomy. PELS technical committees are now unprecedentedly vibrant.

2. As founding Editor-in-Chief, launched *IEEE JESTPE* in July 2013, indexed in January 2015, in top 3% of all publications in electrical/electronics, IF=4.29 and financial independence in 2016.

3. As President, instrumental at PELS society level in securing TAB approval of the new *IEEE Transactions on Transportation Electrification*, with 13 participating societies.

4. As president, launched *IEEE Power Electronics Magazine* in less than 3 months. As the first president from industry, led in establishing PELS inaugural industry advisory board to ensure practitioners' magazine.

5. As President, leadership at TAB level to transition Transportation Electrification Initiative, under Future Directions, to Transportation Electrification Community that has 7 societies as regular members and 15 societies as associate members.

6. As Director, active in TAB Ad Hoc on Financial Transparency to help develop tools for volunteers to manage their individual products more effectively.

Statement

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

Going forward, 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, in technical innovations and in technical information curation.

If elected, we will strive to be more efficient, more effective and more inclusive to maintain our leading position 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 in our leadership positions.

If elected, we will enhance collaborations within TAB and expand collaboration with other IEEE operating units by having frequent joint projects with MGA, Standards, PSPB, IEEE-USA, and Education Board. We will work to address new challenges facing our technical societies by exploring more effective, cross-cutting technical communities. We will engage TAB Division Directors to work more effectively within TAB and to better represent TAB interest in the IEEE Board of Directors.

KAZUHIRO KOSUGE
(Nominated by IEEE Technical Activities)

Professor
Department of Robotics
Graduate School of Engineering
Tohoku University
Sendai, Japan
http://www.irs.mech.tohoku.ac.jp/kazuhirokosuge.html

Kazuhiro Kosuge is a Professor in the Department of Robotics, Tohoku University, Japan. He received the B.S., M.S., and Ph.D. degrees in control engineering from Tokyo Institute of Technology in 1978, 1980, and 1988 respectively. From 1980 through 1982, he was with DENSO Co., Ltd. After having served as a Research Associate at Tokyo Institute of Technology and an Associate Professor at Nagoya University, he has been serving as a Professor at Tohoku University since 1995. For more than 35 years, he has been conducting research on robotics. He received IROS Harashima Award for Innovative Technologies in 2013, the Best Paper Award of IROS'97, JSME Awards for the best papers from the Japan Society of Mechanical Engineers in 2002 and 2005, RSJ Award for the best papers from the Robotics Society of Japan in 2005, etc. He is IEEE Fellow, JSME Fellow, SICE Fellow, RSJ Fellow and JSAE Fellow.

IEEE Accomplishments and Activities
(M'87-SM'00-F'06)

Board/Committees
- Member, TAB Hall of Honor Selection Committee, 2017-present
- Member, TAB Awards and Recognition Committee, 2017
- Member, IEEE Ad Hoc Committee on Strategic Planning, 2015-2016
- Co-chair, TAB Ad Hoc on Membership, 2016
- Director, Division X, IEEE Board of Directors, 2015-2016
- Director, Division X, IEEE Technical Activities Board, 2015-2016
- Member, Public Visibility Committee, IEEE, 2015-2016
- Member, TAB Nominations and Appointments Committee, 2015-2016
- Division X Director-Elect, IEEE Technical Activities Board, 2014
- Member, IEEE Technical Activities Board, 2010-2011

Robotics and Automation Society
- Senior Past President, 2014-2015
- Junior Past President, 2012-2013
- President, 2010-2011
- President-elect, 2008-2009

- Chair, Long Range Planning Committee, 2008-2009
- Member, Administrative Committee, 2002-2004, 2005-2007, 2016-2017
- Vice President for Member Activities, 1998-2001
- Chair, International Affairs Committee, 2001-2007
- Chair, Technical Committee on Human-Robot Interaction and Coordination, 2001-2005
- Associate Editor, *IEEE Robotics and Automation Society Magazine*, 1993-1996
- Associate Editor, *IEEE Robotics and Automation Society Newsletter*, 1992-1993
- General Chair, 2009 IEEE International Conference on Robotics and Automation

As Division X director, I started Division X Dinner during the IEEE meeting series to enhance the communication among TAB members in Division X and IEEE. We invited all of the presidents and president-elects of Societies and technical Councils in Division X and IEEE leaders to discuss the issues/questions we need to solve. This helped us a lot to understand what was happening in IEEE.

As President of the Robotics and Automation Society, we concentrated our efforts on how to meet the needs of our society's members and how to attract our society's potential members. We have started new programs, such as a new budget allocation system to TC and Distinguished Ambassadors Program. The newly implemented systems have contributed a lot to the current growth of RAS membership (7,231 as of Dec. 2009, 9512 as of Dec. 2010, to 13,822 as of Dec. 2017 without affiliates).

Statement

Technical fields covered by IEEE under the strong leadership of TAB have brought our Societies/Councils a considerable number of new researchers/practitioners especially from emerging fields and emerging countries. TAB is one of the most important thrusts of IEEE to "foster technological innovation and excellence for the benefit of humanity".

Through my life with IEEE, I learned the importance of the diversity of Societies, the diversity of Regions and the diversity of our members. I also learned the importance of integrating our different activities having different backgrounds toward the mission of IEEE. The IEEE activities have been supported by volunteers from all of the world. The diversity has been enriching our activities and has been the basis of the strength of IEEE.

As a not-for-profit and membership-driven organization, IEEE needs to meet real needs stemming from the diversity more than ever. If elected, I will create new programs, and services and products to meet the diversified needs, to enrich our members' activities and to increase membership values in cooperation with other organizational units. I will also continue the current efforts to increase transparency in all decision-making processes.

JAMES M. CONRAD
(Nominated by IEEE-USA)

Professor
University of North Carolina Charlotte
Department of Electrical and Computing Engineering
Charlotte, North Carolina, USA
http://webpages.uncc.edu/~jmconrad

James Conrad has spent an equal amount of time working in industry and academia. He received his bachelor's degree in computer science from the University of Illinois, Urbana, and his master's and doctorate degrees in computer engineering from North Carolina State University. He is currently a professor at the UNC Charlotte and Associate Department Chair. He has served as an assistant professor at the University of Arkansas and as an instructor at North Carolina State University. He has worked for IBM, Ericsson/Sony Ericsson, and two start-up companies.

He teaches and conducts research in the areas of embedded systems, robotics, parallel processing, artificial intelligence, and engineering education. He has published eight books in the field of embedded systems and robotics.

Dr. Conrad also serves IEEE as an ABET Program Evaluator, and serves the community on the Board of Directors for FIRST North Carolina, the state organization supporting the FIRST Robotics program.

IEEE Accomplishments and Activities
(S'85-M'92-SM'97)

COMMITTEES/BOARDS:
- IEEE-HKN Board of Governors 2018.
- IEEE Board of Directors, Region 3 Director/Delegate 2016-2017 (IEEE Director-Elect 2014-2015).
- IEEE-USA Board of Directors 2016-2017.
- IEEE Board of Directors Liaison to the IEEE Foundation, 2016-2017.
- IEEE MGA FinCom 2016.
- IEEE MGA OpCom 2017.

REGIONS:
- IEEE MOVE Project Charter Volunteer, 2014-present.
- IEEE Region 3, Conferences Committee Vice-Chair, 2011-2013.
- IEEE, NC Council, Chair 2008-2009

SECTIONS/CHAPTERS:
- IEEE Education Society, Charlotte Chapter, Chair 2007-present.
- IEEE, Charlotte Section, Chair, 2006-2007.
- IEEE Eastern NC Section Volunteer, 2001-2003.
- IEEE Computer Society, Charlotte Chapter, Chair 2005.

STUDENT BRANCHES:
- Advisor, UNC Charlotte Robotics and Automation Society Student Branch, 2008-present.
- Counselor, UNC Charlotte IEEE Student Chapter, 2004-2009.

SOCIETIES:
- IEEE Computer Society, Press Operations Committee, 2002-2009.
- IEEE Computer Society, Membership Activities Board, Student Activities Committee, 1993–1995.
- Associate Editor-in-Chief, *IEEE Computing Futures Magazine*, 1990-1991.

CONFERENCES:
- General Chair, 2010 IEEE SoutheastCon.
- Co-Program Chair, 2009 IEEE/ACM International Symposium on Modeling, Analysis and Simulation of Computer and Telecommunication Systems.
- Technical Program Committee member for many IEEE sponsored conferences.

MAJOR ACCOMPLISHMENTS

- I led Region 3 to concentrate on member engagement, Senior Member Elevation, and service to the community. In 2016, Region 3 was the US leader in membership retention rate and Senior Member Recognition rate.

- I provided leadership for the IEEE MOVE project through active participation in all aspect of the development/operations of vehicle and outreach activities. Have included students in the development and maintenance of the vehicle.

- I organized the Region 3 SoutheastCon 2010 conference to include extensive industry participation and opportunities for professional development. Expanded the offerings available to students in technical and professional development topics. The conference included the most number of open tutorials and workshops, as well as the largest industry exhibition (including a job-fair for students) in recent SoutheastCon history.

Statement

I'm a proud member of the IEEE, but I also belong to another professional organization that is growing each year. They offer fantastic opportunities for professional development via seemingly daily webinars. Local chapters have 100 members attend meetings. They never talk about membership retention - it is not a problem.

Now compare this organization with the IEEE, especially in the USA. Why must we constantly convince our members to renew each year? Are we REALLY providing our members the opportunities they need to be successful? Do we really encourage our member to take part in all of the professional development activities available? Do we truly engage our members in the profession?

As a Region Director I examined these larger, systemic problems of the IEEE and worked towards revolutionary changes to better serve members. I was able to lead our region towards the goal of better member engagement through our Senior Member recognition program, projects like the MOVE vehicle, and encouraging closer involvement between the student branches and Sections.

I would like to continue these activities on a USA-wide platform, while continuing IEEE-USA's involvement in government relations. IEEE-USA needs to ensure our members' skills and knowledge stays relevant in this rapidly changing technology landscape.

MAURA KATHLEEN MORAN
(Nominated by IEEE-USA)

Partner
Cambridge Technology Law, LLC
Cambridge, Massachusetts, USA
http://mkmoran.com/

Maura K. Moran is a partner at Cambridge Technology Law, Cambridge, MA, advising start-ups, global corporations, individuals, and universities on Intellectual Property, technology transfer, licensing, and strategic alliances. She conducts patent prosecution for technologies ranging from software, robotics and other electro-mechanical systems to sporting goods, and consults in technology-related litigation. Maura's career focuses on helping clients achieve business objectives by providing targeted legal and strategic advice. She is an affiliate of Proper Orange, a Cambridge-based organization that delivers Company Building as a Service (CBaaS).

Maura is a graduate of Boston University School of Law and University of Dayton (B.S. Mathematics), and has completed MSEE coursework at Northeastern University. She is active with several organizations including the IEEE, the Women's Bar Association of Massachusetts, and the Venture Café, which supports the innovation community through programs, mentoring, and networking.

IEEE Accomplishments and Activities
(M'11-SM'15)

- Maura is Chair of the IEEE TAB 2018 Ad Hoc Committee on Improving the Contracts Review Process; and Co-Chair of IEEE WIE Boston.
- Maura is a member of:
  - IEEE-USA Government Relations Council, IEEE-USA Intellectual Property Policy Committee, and IEEE-USA Artificial Intelligence/ Autonomous Systems Policy Committee.
  - IEEE Societies: Robotics and Automation, Computer, Computational Intelligence, Social Implications of Technology.
  - HKN
- Maura served on the 2016-2017 IEEE-USA Board of Directors as Vice President, Government Relations.
  - She served on IEEE-USA's 2017 Ad Hoc Committee on Strategic Prioritization, which proposed updates to IEEE-USA's strategic priorities and balanced budgets for 2017-2022.
  - She led the Government Relations Council (GRC) initiative updating IEEE-USA's current policy priorities and conducting a position statements audit to identify active statements available to support the updated priorities and statements in need of updating or drafting.
  - She developed specifications for an IEEE-USA position statement

tracking system for its growing portfolio of projected, pending, and active position statements.

- ▪ She was named Counsel of Record in IEEE-USA's *amicus curiae* Brief in *Oil States Services, LLC., v. Greene's Energy Group, LLC.*, filed in the U.S. Supreme Court August 30, 2017. The brief's significance stems from two aspects:
  - º IEEE-USA conveyed a strong message about the U.S. need for a properly functioning patent system to support a successful innovation economy; and
  - º IEEE-USA streamlined and followed an *amicus* brief drafting and review process that ensures early engagement of all interested IEEE stakeholders in drafting the brief and timely IEEE approval of the brief to strict court-imposed deadlines.
- • Maura developed a panel template, titled LIFE AFTER GRADUATION: THE STEM PROFESSIONAL'S JOURNEY, and moderated a panel based on the template for an IEEE Women in Engineering (WIE) event at Northeastern University, Boston, MA (2016).

Statement

Rethink Tomorrow Together

IEEE-USA has a proud history of promoting the U.S. technology economy, speaking for U.S. members, and helping them sustain rewarding careers. This provides a solid base for the evolutions we will now make to keep IEEE-USA relevant today and in the technology economy to come.

As IEEE-USA President, I will work within IEEE-USA and with IEEE units, regions, and societies to craft a sustainable IEEE-USA for today and tomorrow. I will embrace multi-disciplinary and collaborative approaches to address IEEE-USA's challenges and opportunities.

I am committed to making IEEE-USA indispensable:

- • To members:
  - ▪ Increase IEEE membership by recrafting value-added and benefits to fit all types of members (employees, consultants, contractors, entrepreneurs, students) and technology professionals (engineers, scientists, computer, IT).
  - ▪ Make volunteer participation easier, more rewarding.
- • To our employers:
  - ▪ Convince companies to support IEEE and employee membership.
- • To our government:
  - ▪ Honor our many perspectives; speak with one voice.
  - ▪ Increase targeted education and advocacy.
  - ▪ Collaborate with legislators, agencies, other organizations to further IEEE-USA objectives.
- • To IEEE:
  - ▪ Help IEEE bring advocacy to the rest of the world.
- • To others:
  - ▪ Share expertise.
  - ▪ Give back by doing.
  - ▪ Promote STEM!

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Thank you for participating in the IEEE Annual Election.

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Advancing Technology for Humanity