



Innovation • Education • Connection

THE IEEE-USA 2014 ANNUAL REPORT



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Letter from the President



Dear IEEE-USA Colleagues and Friends:

As 2014 IEEE-USA President, I took as my personal charge the challenge of arresting the downward slide in U.S. IEEE membership, through a strong emphasis on member engagement, public outreach, and proactive service to the profession. Working with colleagues on the IEEE-USA Board, our highly skilled professional staff, and more than 750 active volunteers throughout the organization, we collectively delivered on these promises, making strong progress on all fronts in 2014.

Addressing IEEE's U.S. membership decline was not only a question of raising awareness and working to enhance the value of our programs and offerings to U.S. members. It was also about directly engaging members through personal interactions and direct outreach, to break through the static of modern electronic communications. Through an aggressive schedule of speaking engagements, and by direct personal communications with all U.S. IEEE Sections, by the end of the 2013–14 membership year in August, our U.S. member retention and recruitment rates were up, two of our six U.S. regions had stemmed the loss of members, and our overall U.S. membership loss had declined by 50% from 2012–13.

With respect to our programs, 2014 was a year for new approaches, fresh looks and innovation. In 2014, we developed the publishing platform for IEEE-USA's new flagship publication—*IEEE-USA Insight*. With it, comes a new IEEE-USA E-Commerce store, integrated with IEEE Xplore. We expanded our presence in social media, and experimented with new tools, such as Flipboard. IEEE-USA reengineered its Student Professional Activities program, now dubbed SPAX, giving students more flexibility in developing professional learning experiences, and doubling reported student events. We also began planning for the first-ever, IEEE U.S. Student/Young Professionals Conference, to be held in July 2016.

2014 was also our year for public engagement, as lead society sponsor of National Engineers Week, and through our participation in programs and events, such as sponsoring the Future City Competition, Discover Engineering Family Day, and collaborating with the Clinton Global Initiative on the App-E-Feat Competition.

I take pride in what IEEE-USA was able to accomplish in 2014, and hope that you also find value and inspiration in the highlights that are summarized in the following pages.

Sincerely,
Gary L. Blank
2014 IEEE-USA President

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Introduction

The Institute of Electrical and Electronics Engineers—United States of America (IEEE-USA) is a major organizational unit of the IEEE that traces its origins to the 1973 formation of the IEEE U.S. Activities Committee. IEEE-USA was created to **advance the public good, and it promotes the careers and public policy interests of more than 200,000 engineers, scientists and allied professionals, who are U.S. members of the IEEE.** IEEE-USA is led by a volunteer board of directors, chaired by the member-elected IEEE-USA President. IEEE-USA's operations are supported by a professional staff of 18, based in the IEEE-USA Office, in Washington, D.C.



IEEE-USA Mission and Purpose

As provided in our By-Laws, IEEE-USA's mission is to “recommend policies and implement programs specifically intended to serve and benefit the members, engineering professionals, and the general public in the United States. IEEE-USA shall be the organizational unit that represents the professional interests of the IEEE before U.S. governmental bodies. It shall also be responsible for coordinating and reporting, under federal disclosure laws, all official communications with government.”

This mission is further described by IEEE-USA Policy 1.2, which defines as our organizational purposes the responsibility to:

- **PROMOTE** the professional, social, economic and ethical status of electrical, electronics, communications and computer engineering, as well as computer science and allied branches of engineering, and the related arts, sciences and technologies, and related technical professionals in the United States, with a special emphasis on U.S. IEEE members
- **PROVIDE** technical advice and policy perspectives to U.S. policymakers at all levels, in the areas of electrotechnology and information technology, to improve the quality of life, and for the benefit of the public
- **WORK** with U.S. policymakers and regulators to enhance the careers and improve the working conditions of U.S. engineers, and other technical professionals
- **DEVELOP** products and services that support the lifelong professional development and career vitality needs of U.S. IEEE members, and other technical professionals
- **SUPPORT** communication with and among U.S. IEEE members, potential members, their employers, and the public about IEEE-USA, and the professional issues that affect its members and their professions
- **ENHANCE** public awareness and understanding of electrical, electronics and computer engineering, and related technical fields





IEEE-USA Funding

IEEE-USA operates on an annual budget, approved by the IEEE Board of Directors. IEEE-USA's 2014 operations budget was \$5.53 million. This budget supported the programs, volunteer activities and staff highlighted in this annual report. IEEE-USA's budget is primarily funded through a mandatory assessment of all U.S. IEEE Higher Grade members, indexed to inflation. The 2014 assessment was \$42. This assessment generates approximately 95 percent of IEEE-USA's operating revenues.

In 2014, IEEE-USA worked to expand its non-dues revenues from conference registrations, proceedings and sales of products and services (currently comprising five percent of total revenues). In addition to IEEE-USA's operating budget, tax-deductible member contributions to the IEEE-USA Fund, the IEEE-USA E-Week Fund, and/or the IEEE-USA Awards Fund provide seed money for new career and professional programs and services.

For information on how you can support IEEE-USA through a voluntary contribution, see: www.ieeeusa.org/about/development.asp.

IEEE-USA's 2014 Treasurer was Dane Watson.



IEEE-USA Strategic Goals

IEEE-USA's current Strategic Plan represents IEEE-USA's commitment to build upon our strengths to address the challenges facing IEEE-USA and U.S. IEEE members, as well as to bring the organization to a higher level of member satisfaction and financial security. To achieve this plan, in 2014 IEEE-USA worked to achieve the following strategic goals:

- **SERVE** the career and professional interests of U.S. IEEE members, and support lifetime members' careers in engineering and related disciplines
- **INCREASE** U.S. IEEE membership, to have the greatest effect on influencing trends affecting U.S. IEEE members' interests and well-being
- With IEEE's Educational Activities Board, **ASSURE** U.S. IEEE members valuable and affordable graduate-level educational products, to provide lifetime learning, and to avoid obsolescence
- **ADVANCE** public policies that are technically sound, advance the public welfare, and serve the needs of the engineering profession and U.S. IEEE members
- **USE** state-of-the-art communications tools and practices, to assure that U.S. IEEE members solidly understand and appreciate IEEE-USA's programs and services, and to provide them with an influential role in the larger public community
- **PROMOTE** and nurture communities of interest among U.S. members and volunteers, in conjunction with IEEE Member and Geographic Activities, Technical Activities, Educational Activities and Standards, in such areas as technology, public policy and career management, to optimize U.S. IEEE member and volunteer interests

In addition, IEEE-USA endeavored to focus its resources on high-priority activities, to have a clear impact. In support of these goals, IEEE-USA identified a number of strategic activities, supported by operational plans, which are reflected in this Annual Report.

Addressing IEEE-USA's Strategic Focus For 2014

IEEE-USA President Gary Blank made reversing IEEE's negative U.S. membership trends the primary strategic focus for 2014. IEEE-USA's strategic themes for 2014 included increasing member engagement (i.e., member involvement, utilization and/or awareness of IEEE-USA, and its products and services) and diversifying IEEE-USA's revenue sources, to reduce our budgetary reliance on the U.S. member assessment.

These themes related to broader IEEE-USA strategic efforts, and focused on four areas:

- Building/Supporting Members' Careers
- Shaping Public Policy
- Promoting Science, Engineering and Technical Literacy
- Revitalizing IEEE's U.S. Membership

IEEE-USA's Government Relations priorities for 2014 focused on federal support for research and innovation (including a new focus on manufacturing), skilled immigration reform, energy, patent reform, K-12 STEM education, and issues related to U.S. security.

In 2014, IEEE-USA continued to offer strong Communications & Public Awareness, Career & Member Services, Government Relations, and Professional Activities products, programs, services and activities. In addition, IEEE-USA Supported IEEE's policy interests, on such subjects as public access to scholarly publications, data and standards; federal participation in conferences; and supporting an IEEE Initiative to reinforce IEEE's global role in Internet Governance.

Highlights of IEEE-USA activities and outcomes in each area during 2014 are highlighted in this Annual Report.



Building/Supporting Members' Careers

IEEE-USA COMMUNICATIONS

IEEE-USA InSight & the IEEE-USA Website



IEEE-USA's new flagship publication, *IEEE-USA InSight*, is the culmination of nearly two years of work by IEEE-USA

Communications and IEEE N.J. Information Technology staffs. Many IEEE-USA volunteers, as well as IEEE-USA and IEEE staff, collaborated on this project. At the end of 2014, the Washington Office and New Jersey teams finished up the development work. IEEE-USA's new publication launched in February 2015.

This project combined two legacy publications (*Today's Engineer* and *IEEE-USA in ACTION*)—to streamline focus; improve mobile and current web capabilities; decrease staff time; and increase ability for volunteers to contribute—while also replacing aging e-commerce capabilities with a working system.

Along the way, IEEE-USA Communications staff helped define a new, reusable enterprise content management system (CMS), that will hopefully be the foundation for many other IEEE websites in the future—including the main IEEE-USA site (for which work has already begun).

Launched in 1997, as a 48-page, full-color, print magazine, *Today's Engineer* (TE) transitioned to an all-online publication in 2000. Over the past 13 years, TE published more than 1,655 articles; and its audience grew from 9,000 visitors, to more than 100,000 unique visitors per month in 2014, all of whom will be redirected to the new publication.

IEEE-USA in ACTION, a quarterly interactive e-zine focused on member issues, published between 2010 and 2013, was distributed to 200,000+ U.S. IEEE Members,

and was the go-to source for news, information and features about IEEE-USA products, programs, services and activities. This online, interactive, quarterly publication was consistently praised, since inception, for its high quality and in-depth material. It received six awards in its four years of publication, for its editorial content and design.

IEEE-USA in Action and *IEEE-USA Today's Engineer* were phased out, with the launch of *IEEE-USA InSight*. Much of the archival content from both *Today's Engineer* and *IEEE-USA in ACTION* will be included in the new IEEE-USA flagship publication.

IEEE-USA's New E-Commerce Store



The IEEE corporate office in New Jersey approved the necessary changes to take place in Xplore to allow

IEEE-USA products to be listed and sold. The code modification took place in December 2014 and January 2015, putting things on target for the simultaneous launch in February 2015 of both *IEEE-USA InSight* and the IEEE-USA E-Commerce Store—ideal from a promotion standpoint. For the first time, IEEE-USA will be able to actively feature, promote, sell and discount IEEE-USA E-Books, due to the new robust Xplore backend. Due to this new, user-friendly improvement, IEEE-USA E-Books will also have a broader reach and exposure to IEEE members.

New IEEE-USA Website

Immediately following the launch of *IEEE-USA InSight*, work has begun on IEEE-USA's new website. To date, the Business Case Document (BCD) and Business Requirement Document (BRD) have been completed and submitted. New Jersey has allocated funds and staff time—and the same N.J. team that worked with IEEE-USA Staff on *InSight*, will continue to work with us on our main site.

All IEEE-USA staff worked to clean up existing content on the current site, to assist the transition. Launching this new website will be a very challenging process—given the volume of information, we anticipate this project will take until year-end 2015 to complete.

IEEE-USA E-Books

In 2014, IEEE-USA E-Books added 17 new titles to the IEEE-USA E-Book library, and distributed approximately 60,000 e-books, free and sold. Since inception in 2005, we now have more than 170 IEEE-USA E-Books in our library. Further, we have distributed approximately 350,000 e-books (both sales and downloads), over the life of the program. IEEE-USA also continued its highly popular, monthly, free e-book offer to members in 2014. And in 2015—the future is bright, as we will be using our new IEEE-USA Shop to process downloads—allowing for exposure to other products, member discounts and suggestive selling. Most titles are also now available in Amazon, as well as the new IEEE-USA store, and IEEE Xplore.

This year, IEEE-USA's *Shaping an Engineering Career* e-book series received a 2014 APEX Award of Excellence in the Electronic Publications category.



In 2014, IEEE-USA E-Books also launched the first four books of IEEE-USA's *Women in Engineering* e-book series. The series provides a global overview of women in science, technology, engineering and mathematics (STEM) fields, as well as first-hand accounts of the professional journeys of notable contemporary

female engineers. The first book in the series, *Women in Engineering: Inspire and Close the Gender Gap*, gives a statistical overview regarding women in engineering careers. Four more books in this series are scheduled for publication in 2015.

IEEE-USA in ACTION

IEEE-USA in ACTION received an APEX 2014 Grand Award in the Electronic Media (non-profit) category, one of only 100 Grand Awards given, out of more than 2,075 entries submitted in 11 major categories. APEX Awards recognize excellence in graphic design, editorial content, and overall communications effectiveness. This award marks the third award this year that *IEEE-USA in ACTION* received. Earlier, it was honored with two Silver Awards of Distinction by The International Academy of Interactive and Visual Arts.

PUBLIC VISIBILITY & PUBLIC RELATIONS

NATIONAL ENGINEERS WEEK (E-Week)

IEEE-USA was the lead society sponsor for National Engineers Week 2014, an annual celebration of engineers, and the contributions of the profession to society. Among the highlights:

- **WEBCAST KICK-OFF EVENT:** IEEE-USA President Gary Blank joined in a live webcast at the University of Delaware(UD) to kick-off National Engineers Week. After UD President Patrick Harker welcomed the panelists, UD Provost Domenico Grasso moderated the discussion. Speakers discussed the important role engineers play in addressing today's grand challenges, and how volunteerism and partnership contribute to this effort. Other participants included: UD College of Engineering Dean, Babatunde Ogunnaike; and DuPont Chief Engineer and Vice President-Engineering, Facilities and Real Estate, Karen Fletcher.

- DISCOVER ENGINEERING FAMILY DAY:** A capacity crowd of more than 9,200 visitors participated in the 2014 Discover Engineering Family Day (22 Feb.) at the National Building Museum, an E-Week event sponsored by IEEE-USA and DuPont. The event featured Design Squad Nation co-host, Nate Ball (an IEEE member), and former Space Shuttle astronaut, Dr. Roger Crouch. The event received promotional coverage from the local FOX television affiliate. IEEE-EAB participated in Family Day, with hands-on engineering activities targeted at participating K-12 students.
- FUTURE CITY COMPETITION:** In 2013-2014, the Future City competition had more than 40,000 participants across the United States. The National Finals took place in Washington, D.C., during E-Week, with St. John Lutheran School, of Rochester, Michigan, taking top honors. IEEE-USA presented a Best Communications Systems Award to Warwick Middle School from Central Pennsylvania. Future City finalists were invited to participate in the upcoming White House Science Fair. IEEE-USA introduced the first Future City Competition to National Engineers Week in 1993.
- HILL EVENT ON MINORITIES IN ENGINEERING:** During E-Week, IEEE-USA co-sponsored a STEM Salon on Capitol Hill for *Change the Equation*, to help familiarize Congress with the results of a recent report: *Engineering Emergency: African Americans and Hispanics Still Lack Pathways in Engineering*. See video at: <http://www.youtube.com/watch?v=tbmIT6fTy2U&feature=youtu.be> and report at: http://changetheequation.org/sites/default/files/CTE_VitalSigns_Engineering_V5.pdf
- GLOBAL MARATHON FOR WOMEN IN ENGINEERING AND TECHNOLOGY:** Organized as part of National Engineers Week, the 2014 Global Marathon was conducted on 5-7 March, and featured 30 speakers from nine countries, on such topics as "Advice from the Top," "Women and Emerging Technology," "Building Confidence," "High-Performance Teams," and "Inspiring Yourself and Others."
- APP-E-FEAT COMPETITION:** As our E-Week Special Project for 2014, IEEE-USA collaborated with IEEE on the App-E-Feat Competition, which challenged students, aged 13-18, and IEEE student members, to propose or design mobile applications to help solve world problems.

Entries for IEEE-USA/IEEE's App-E-Feat humanitarian mobile app design competition closed on 19 May. The contest drew 33 eligible submissions in both the 13-17 and the 18+ age categories. Fifty-one governments and non-governmental organizations submitted proposals for projects. Winners will be announced on 20 June 2015.

App-E-Feat fulfills IEEE's service commitment as a participant in the Clinton Global Initiative. As a PR opportunity, it has delivered more than 800 media placements, with 135 million+ brand impressions for IEEE/IEEE-USA.
- U.S. SCIENCE AND ENGINEERING FESTIVAL:** IEEE-USA President Gary Blank joined more than 20 volunteers from IEEE-USA's STEM Literacy Committee, the IEEE Computer Society, and the local IEEE Washington and IEEE Northern Virginia Sections, in supporting IEEE-USA's exhibit at the 3rd U.S. Science and Engineering Festival, held on 26-27 April, in Washington, D.C. IEEE's History Network also contributed displays and materials. The largest STEM event held in the United States, the Science and Engineering Festival drew over 1,200 exhibitors, offering hands-on STEM experiences to a crowd of more than 325,000 students, parents, teachers, and other interested participants. For more information, see: www.usasciencefestival.org/
- IEEE-USA BOOTH:** IEEE-USA featured its traveling booth at a number of IEEE conferences and events in 2014, including the IEEE Conference on Connected Vehicles (ICCVE) in Vienna; the Maker Faire in New York (with more than 130,000 attendees); and the IEEE Sections Congress in Amsterdam.



- **MASS MEDIA FELLOW:** IEEE-USA sponsored Casey O'Hara (a Mechanical Engineer, former physics teacher, and currently a Master's student in environmental science at the University of California, Santa Barbara) for a 2014 Mass Media Fellowship with *The Oregonian* newspaper. Mass Media Fellows are part of a multi-society program to promote the public understanding of science and technology by cultivating excellence in STEM journalism.
- **SOCIAL MEDIA:** IEEE-USA continued to expand its use of social media for communications and member engagement. Key indicators included: Facebook—3000+ Likes; Twitter—11,300+ followers (expanding rapidly since 2012, Twitter follows are up 151%); LinkedIn—the IEEE-USA Group has 5,141 members, and the IEEE-USA Entrepreneurs Group has 396 members; IEEE-USA's Flipboard, *Career & Employment Issues*, had 14,000 viewers, 21,000 flips and 246 articles.
- **IEEE-USA AWARDS AND RECOGNITION:** Due to increased outreach and use of social media, IEEE-USA received nearly 40, high-quality, award nominations in 2014. At its November meeting, IEEE-USA's Board of Directors approved the 2014 award recipients, who will be presented their awards during an awards ceremony at the 2015 IEEE-USA Annual Meeting in Milwaukee, Wis. (See the Award Recipients in the Appendices of this Annual Report.)
- **ASIAN AMERICAN ENGINEERS OF THE YEAR AWARDS CEREMONY:** On 1 March, IEEE-USA President Gary Blank attended the Asian American Engineers of the Year Awards Ceremony in San Francisco, Calif., honoring Asian Americans with outstanding achievement in Science, Technology, Engineering and Mathematics (STEM). Award winners of the past 12 years include seven Nobel Laureates, as well as many corporate executives, managers, engineers and researchers.
- **IEEE-USA SUPPORT FOR SPECIAL ANNIVERSARIES:** In 2014, IEEE-USA showed support for IEEE entities celebrating special anniversaries. President Gary Blank was invited, attended and spoke at the following celebrations:

 - IEEE San Diego Section's 75th Anniversary
 - IEEE Rochester, New York Section's 100th Anniversary
 - IEEE Seattle Section's 110th Anniversary
 - The UCLA Student Chapter's 50th Anniversary

IEEE-USA Career & Member Services

In 2014, IEEE-USA's Career and Member Services offered members' programs that supported U.S. IEEE members and their careers; assisted them in employment and career transitions; enhanced their professional status and recognition; and helped sustain the engineering educational pipeline. Specific program offerings included:

- **NEW DIRECTION FOR STUDENT PROFESSIONAL AWARENESS:** The Student Professional Awareness Committee embarked on a total make-over of its programs to celebrate its 35th Anniversary. On 1 August, SPAC launched its new program, called SPAX, designed to allow students and student branches more flexibility in designing activities to engage, explore and experience real-life career and professional development. SPAX replaces the current program specifications for Student Professional Awareness Conferences (SPACs), Ventures (SPAVEs) and Workshops (SPAWs). Designed with student input, the Committee believes this new approach will enable IEEE-USA to reach more students, create better and longer-lasting experiences for the students, and encourage them to remain engaged with IEEE after they graduate.



- On 18 October, IEEE-USA celebrated the 35th anniversary of the Student Professional Awareness Program in Seattle, with the official launch of the new Student Professional Experience (SPAX) format. Featured speakers included former Google recruiter Michael Junge on *Careerology*; Brian Geller, executive director of Seattle 2030 District, on green cities; and Steve Johnson, director of economic development for the city of Seattle.
- **STUDENT/YP CONFERENCE PLANNED FOR 2016:** In 2014, IEEE-USA's Board of Directors approved holding the first-ever Student/Young Professionals Conference in the United States in July 2016, at Tulane University in New Orleans, La.

- **GLOBAL CAREER RESOURCES:** IEEE-USA collaborated with two IEEE ad hoc committees focused on global career resources for IEEE members, and developed a Career Resources Strategy/Business Plan. Both ad hoc committees will report their progress to the IEEE Board in August 2015.

- **IEEE-USA 2014 SALARY SURVEY:** IEEE-USA completed its 2014 IEEE-USA Salary & Benefits Survey in May, receiving 16,925 responses from IEEE Higher Grade Members. This 14.5% response rate is the second highest in 30 years of conducting the survey—making it one of the most robust and granular salary surveys to date. IEEE-USA published the *2014 IEEE-USA Salary & Benefits Survey Report* in September. In November, IEEE-USA released five specialty reports highlighting data derived from the 2014 Salary Survey, focusing on salary trends for computing; communications; circuits and devices; power and energy; and systems and controls.



- **IEEE-USA WEBINARS:** Through 31 December, IEEE-USA delivered 20 webinars on career and professional topics that reached 323 live viewers. In addition to legislative updates, IEEE-USA offered such topics as: *Business Models and Value Propositions*; *Finding the Right People Using Linked-In*; *The Power of Presentations*; *So You Want to Be An Entrepreneur?*; *The Software Engineering PE Examination*; and *Starting Your Start-Up*. Upcoming webinars will focus on *Intellectual Property & You* (19 June 2015), and the *Small Business Administration's On-Line Training Program* (July 2015). All IEEE-USA webinars are archived on-line for later viewing at: www.ieeeusa.org/careers/webinars/default.asp

- **IEEE CONSULTANTS**

NETWORK: Enrollment in IEEE's Consultant Network (managed by IEEE-USA) has grown to 1,845 (906 R1-R6; 939 R7-10). As of 31 December, 361 network members had subscribed to listings in IEEE-USA's on-line *Consultants Directory*, a 48% increase from last year at this time. In addition, IEEE-USA published its *2014 Consultants Fee Survey Report*, in late fall.



- **IEEE-USA CONSULTANTS WORKSHOPS:**

IEEE-USA President Gary Blank, volunteers and staff conducted three consultants training workshops in 2014, on the following dates, at the following locations:

- **12 April** – Los Angeles/Orange County Networks, in Pomona, Calif.
- **13 September** – IEEE Central Texas Section Network, in Austin, Texas
- **15 November** – IEEE Canaveral & Melbourne Sections, in Cocoa, Fla.

- **ENTREPRENEURIAL ACTIVITIES:** IEEE-USA included questions from the federal Small Business Administration (SBA) in its annual entrepreneurs' survey. In addition, IEEE-USA provided the associated results to the SBA, along with recommendations on how the SBA can better support small technology businesses and entrepreneurial start-ups. (In January 2015, the SBA submitted a report to Congress on ways the agency can better promote small business growth—informed, in part, by IEEE-USA's input.) On 23 June 2014, IEEE-USA partnered with the Small Business Administration on a webinar, introducing interested IEEE members to SBA's Online Training Programs. On

12 December, IEEE-USA convened its *3rd Annual Small Technology Business Symposium*, to discuss technology entrepreneurs' needs. IEEE-USA held this event in the U.S. Senate Small Business Committee hearing room, with representatives from the White House Office of Science and Technology, United States Trade Representative's Office, the Department of Commerce, the U.S. Patent and Trademark Office, the Department of State, the Export Import Bank, the U.S. Small Business Administration, and the Senate Small Business Committee Staff attending.

- **IEEE-USA ANNUAL MEETING:** Nearly 200 IEEE-USA Region and Section leaders gathered in Providence, Rhode Island, on 15-18 May, for IEEE-USA's 2014 Annual Meeting, and co-located *InnoTek* Conference. The Annual Meeting also hosted IEEE-USA's annual Awards Ceremony, where we recognized 17 award recipients for professional leadership, public service, entrepreneurial spirit, and technical achievement in federal service. The IEEE-USA will hold its 2015 Annual Meeting in Milwaukee, Wis., on 14-17 May.

- **STEM NATIONAL LEADERSHIP CONFERENCE:**

IEEE-USA participated as a supporting organization in the STEM Solutions National Leadership Conference, convened by *U.S. News and World Report*, on 23-25 April, in Washington, D.C. The three-day event brought leaders in education, policy and workforce development together to discuss ways to advance the national STEM agenda. For more information, see: <http://usnewsstemsolutions.com/>

- **IEEE-USA CAREER FLIPBOARD:** As a social media experiment, IEEE-USA's [Career & Employment Issues](#) Flipboard has garnered 1,381 readers, 241 articles and 38,570 "flips," since its mid-2013 launch.



Shaping Public Policy

Government Relations

- **PUBLIC ACCESS TO SCHOLARLY PUBLICATIONS:**

On 21 May, the U.S. House Science, Space and Technology Committee approved a bipartisan amendment to the *Frontiers in Innovation, Research, Science, and Technology (FIRST) Act* (H.R. 4186), reducing a proposed 18-month embargo on mandatory public deposit of scholarly publications based on federally-funded research to a maximum 12-month embargo. The bill was reported out of committee on 28 May, but failed to move to the House Floor. Similar legislation is expected in the 114th Congress.

On 13 November, Presidential S&T Advisor John Holdren sent a letter to the U.S. Congress, updating progress on developing and implementing agency policies to increase public access to the results of federally funded scientific research. The letter refers to separate efforts by the publishing and academic communities (e.g., the IEEE-supported, *Clearinghouse for the Open Research of the United States*) to deliver platforms to provide public access to federally-funded research articles, and concludes “both of these efforts are at very early stages, and cannot now, serve as a substitute for agency efforts to increase access, but we are encouraged to see this productive shift in effort. Such activities have the potential to be valuable complements to federal efforts, and we look forward to seeing their progress over the coming years.”

- **FEDERAL TRAVEL RESTRICTIONS AND STEM CONFERENCES:**

The U.S. Government Accountability Office (GAO) is currently conducting a congressionally mandated study on, “what effects, if any, (the) Department of Defense’s (DOD’s) policy for the oversight and approval of conference sponsoring and attendance has had on the DOD

science and technology enterprise.” IEEE-USA arranged for the GAO to interview representatives of IEEE-USA’s Government Relations Council and IEEE’s Conferences staff. IEEE-USA also outlined its concerns in a statement to the GAO. It also provided information and support for an unsuccessful meeting of S&T groups, held with the President’s Office of Science and Technology in June, to propose a STEM conference exemption to federal travel restrictions. On 25 July, IEEE-USA joined other S&T societies, in a meeting with representatives of federal departments and agencies, hosted by the Army Research Laboratory (ARL) in Adelphi, Maryland, to discuss the impact of federal government restrictions on scientific and technical conference attendance. A follow-on meeting at ARL took place in early December.

On 2 October, the Senate Homeland Security and Gov’t Affairs Committee reported a substitute version of *The Conference Accountability Act* (S.1347), which would limit participation by U.S. government participants in foreign conferences to 50, without a national interest exception. IEEE-USA backed an unsuccessful amendment by Senator Levin that would have simplified the waiver process. Neither S.1347, nor its House companion, H.R. 313, was passed in 2014. Similar legislation will be introduced in 2015.

- **PUBLIC POLICY PRIORITY ISSUES:** In addition to supporting IEEE policy interests, IEEE-USA was proactive in addressing its 2014 policy priorities, including:

- **Intelligent Transportation:** On 20 October, IEEE-USA submitted comments to the Department of Transportation pertaining to development of federal regulations concerning vehicle-to-vehicle communication.

- **Innovation Policy:** On 23 September, IEEE-USA submitted comments to the President's Office of Science and Technology Policy, as input to a proposed U.S. Strategy for American Innovation. Prepared with input from our Entrepreneurial Activities Committee, our comments focused on ways the administration could help small technology companies prosper.
- **Patent Reform:** In a 14 March letter to the Senate, IEEE-USA stated its opposition to the *Transparency in Assertion of Patents (TAP) Act*, S. 2049. The Senate ultimately failed to act on the Bill, and it formally died at the end of 2014. The legislation is expected to be reintroduced in 2015.
- **K-12 STEM Education:** The House of Representatives passed the *STEM Education Act of 2014* (H.R. 5031), by voice vote, on 14 July. The bill contains two IEEE-USA-backed provisions that enhance the Robert Noyce Teacher Scholarship program, and expand the definition of STEM education, to allow federal STEM support for formal academic instruction in computer science. The bill passed the House, but was not taken up by the Senate, before the end of the legislative session. On 16 October, IEEE-USA endorsed a *Dear Colleague* letter from U.S. Reps. Kilmer and Buchon, of the House Science Committee, to other Members of Congress, calling for support of the National Science Foundation's on-going efforts to develop AP Engineering and Computer Science Principles course curricula for use in high schools.
- **Skilled Immigration Reform:** In 2014, IEEE-USA actively looked for opportunities to advance its "Green Cards, Not Guest Workers" approach to skilled immigration reform, but due to election year constraints and partisan divides, Congress was unwilling to act on immigration reform legislation during this session. Congress introduced several bills. Foremost among these bills was S.744, the *Comprehensive Immigration Reform Act*, that the Senate ultimately passed, but the House did not vote on. S. 744 contained a number of provisions from IEEE-USA, including language to prevent outsourcing companies from using H-1B visas, and creating new green cards for international graduate students. IEEE-USA also worked to influence the White House's executive proposals on immigration.
- **Quadrennial Energy Review:** In late May, a joint working group of IEEE-USA and the IEEE Power and Energy Society, submitted preliminary comments to the U.S. Department of Energy, as input to the *1st Quadrennial Energy Review*. The *Review* focuses on threats, risks and opportunities related to the national energy infrastructure, and its ability to meet U.S. energy and climate security goals. The working group conducted a follow-up meeting with DOE officials in late June, and submitted its final report to the DOE on 5 September. The IEEE Joint Task Force on Quadrennial Energy Review (QER) continues to interact directly with senior DOE staff, including Melanie Kenderdine, director of the Office of Energy Policy and Systems Analysis (who reports directly to Energy Secretary Moniz), who commended our efforts, describing our contributions as "Very, very helpful." The final report is due in early 2015.
- **POSITION STATEMENTS:** In 2014, IEEE-USA released 10 new or updated position statements on Air Force Office of Scientific Research (February); Cybersecurity (May); and Low Cost Access to Space (February); Space-Borne Synthetic Aperture Radar (June); Energy Efficiency (June); SBIR (September); High-Value Job Growth through Manufacturing Innovation (September); *Digital Millennium Copyright Act* (DMCA) Encryption Research (November); Digital Rights Management (November); and Disclosure of Intellectual Property Assignment Agreements (November).
- **POLICY STATEMENTS:** IEEE-USA released 40 policy communications to Congress and the execu-

tive branch on an array of topics in 2014, including: federal conference and travel spending; relocation of the Air Force Office of Scientific Research; federal R&D appropriations for FY2014 and FY2015; renewal of the R&D tax credit; funding for advancing computing programs; patent reform; reauthorization of FY2014 civilian S&T programs; U.S. spectrum policy; the *Quadrennial Energy Review*; and Massachusetts state legislation to prohibit employer use of non-compete agreements in employment relationships.

- **CONGRESSIONAL VISITS DAY:** 38 U.S. IEEE members participated in 67 congressional visits during the 2014 Science, Engineering and Technology Congressional Visits Day (26 March), a multi-society event that drew more than 200 scientists and engineers to Washington, D.C., as advocates for strong federal investments in R&D.
- **CONGRESSIONAL BRIEFINGS:** During 2014, IEEE-USA organized two Congressional Briefings, in addition to serving as co-chair of the advisory

committees for the Congressional Research and Robotics Caucuses:

- **Robots for Good (17 June):** Organized for the Congressional Robotics Caucus, the briefing looked at unexpected ways unmanned vehicles are helping society. Speakers included representatives from the World Wildlife Fund, BlueFin Robotics and Carnegie Mellon Robotics Laboratory. The event was very well attended and congressional staff reviewed it favorably.
www.todaysengineer.org/2014/Oct/UAVs.asp
- **Cybersecurity and Privacy (30 October):** Organized for the Congressional Cybersecurity Caucus, IEEE-USA and the National Science Foundation collaborated on a congressional briefing on cybersecurity and privacy.
- **MASSACHUSETTS GROWTH AND OPPORTUNITY BILL:** IEEE-USA coordinated the efforts of our four Massachusetts Sections, to support legislation proposed by Governor Deval Patrick that would



prohibit the enforcement of non-compete agreements, and encourage immigration in Massachusetts. IEEE-USA sent a letter, signed by all four Section chairs, to the entire state legislature, endorsing the Governor's non-compete plan. A Section volunteer testified at a legislative hearing, in support of the bill. While the provision was ultimately dropped, we will continue to work with IEEE members in the state to push the issue in 2015.

- **PATENTABILITY OF SOFTWARE:** On 28 January, IEEE-USA filed an amicus curiae brief with the U.S. Supreme Court in the *CLS v. Alice Case*, concerning the Patentability of Computer-Implemented Inventions. The Supreme Court heard oral arguments in the case on 31 March, and issued a ruling on 19 June, that invalidated Alice Corporation's patent claim, while holding that software remains patentable. Unfortunately, as summarized by *The Washington Post*, "while the court struck down what was universally said to be a bad patent, it didn't do much to say what kinds of software should be patentable."
- **AIR FORCE OFFICE OF SCIENTIFIC RESEARCH:** IEEE-USA successfully advocated against an Air Force proposal to relocate its Office of Scientific Research (AFOSR), due to concerns about the impact of the move on AFOSR's ability to sustain its basic research mission. Air Force Secretary Deborah Lee James confirmed a final decision to stay put, in a Senate Armed Services Committee hearing, on 10 April, and in a subsequent response to IEEE-USA.
- **GOVERNMENT FELLOWS:** IEEE-USA's 2014 Fellows completed their assignments. Anne Marie Lewis served as a Congressional Fellow in the office of U.S. Senator Heidi Heitkamp, D-N.D.; Michael McQuade, as a Congressional Fellow on the committee staff of Science Committee Chair Lamar Smith, R-Texas; and Len Hause, as an Engineering & Diplomacy Fellow in the State Department's Office of the Coordinator for Cyber Issues. The 2015

Fellowship selection process has been completed, with Shawn Kimmel and Robert Bartolo selected for Congressional Fellowships; Luis Salas, for an Engineering & Diplomacy Fellowship; and Chandra Curtis, for a new Engineering & International Development Fellowship at the U.S. Agency for International Development. Our Congressional Fellows have accepted placements in the offices of Sen. Robert Casey, D-Pa.; and Rep. Dan Lipinski, D-Ill. Dr. Salas declined his Engineering & Diplomacy Fellowship, to accept a full-time position with the State Department.

- **WASHINGTON INTERNSHIPS FOR STUDENTS OF ENGINEERING (WISE):** IEEE-USA, the IEEE Technical Activities Board, and the IEEE Life Members Committee jointly sponsored participation by IEEE in the summer WISE Program, introducing engineering students to the S&T policy process. In 2014, IEEE-USA selected IEEE Student Member Preston Stimson (Mississippi State University), for the WISE internship. Former IEEE-USA Congressional Fellow Ken Lutz served as Faculty-in-Residence for the 2014 program, hosting 11 interns, sponsored by seven engineering societies. The deadline for 2015 applications was 31 December. www.wise-intern.org/
- **SOCIOECONOMIC IMPACTS OF GEOSPATIAL INFORMATION:** IEEE-USA co-sponsored a workshop on: *Assessing the Socioeconomic Impacts and Value of "Open" Geospatial Information*, held on 28-29 October, in collaboration with the Social Economic Benefits Community, NASA and the U.S. Geological Survey, at George Washington University in Washington, D.C.
- **STATE DEPARTMENT S&T ADVISOR:** IEEE President Howard Michel and IEEE-USA President Gary Blank participated in a meeting at the U.S. State Department on 24 July, to discuss the role of the Science & Technology Advisor at State, and the primary considerations for selecting the next Advisor.

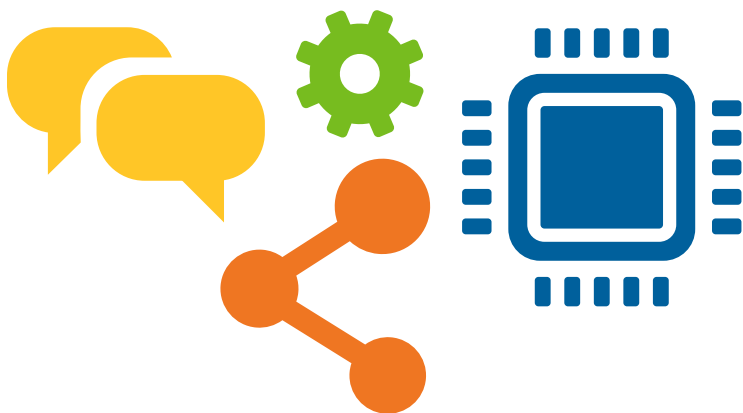
Promoting Science, Engineering and Technical Literacy

- **K-12 STEM LITERACY:** IEEE-USA supported improvements in the math, science and technology education of U.S. precollege students, to help raise their functional and technological literacy. In addition to coordinating member and financial support for the IEEE Educational Activities Board's Teacher in Service, TryEngineering.Org, and other technical literacy programs, IEEE-USA made Teacher Grants, and recognized teacher-engineer collaborations with its Teacher-Engineer Partnership Award. IEEE-USA provided an IEEE presence by participating in national STEM educational events, such as National Engineers Week, National Lab Day, and the U.S. Science and Engineering Festival.
- **SPECIAL RECOGNITIONS:** A delegation of his former Congressional Fellows, led by former IEEE President Gordon Day, presented IEEE-USA's 2013 Public Service Award to Sen. Rockefeller, D-W.Va., in a special ceremony held on 18 Sept. in his office

on Capitol Hill. IEEE-USA honored the Senator, who is retiring, for supporting STEM education and research over the course of his career.

On 19 October, IEEE-USA President Gary Blank presented a Presidential Citation to U.S. Senator Maria Cantwell, D-Wash., in conjunction with her Keynote address at the IEEE Seattle Section's 110th Anniversary Gala. The citation recognized her efforts to create jobs and expand educational opportunities in science, technology, engineering and mathematics (STEM).

On 19 November, IEEE-USA joined with other science and engineering organizations hosting a Capitol Hill reception, honoring Rep. Rush Holt, D-N.J., on his retirement from Congress. Holt, a physicist, has been a long-time champion for S&T in Congress, and has worked with science and engineering societies to raise awareness of the impact that federal travel restrictions are having on S&T conferences.



Other Member-Related Initiatives

Reversing the decline of IEEE's U.S. membership was IEEE-USA President Gary Blank's top priority for the year, and we saw significant improvement in IEEE's U.S. membership recruitment and retention rates in 2014, over 2013. Among the activities undertaken to support that goal:

- In February, the IEEE-USA Board elevated the IEEE-USA Membership Development Committee from an ad hoc committee to a standing committee, to emphasize the importance of membership development. The committee members have worked closely with MGA, which has assigned two staffers specifically to support membership development and retention efforts in the United States.
- Starting in March, IEEE-USA President Blank sent a series of four personalized letters and messages to U.S. IEEE Regional Directors, Regional Student Activities Chairs, Section Chairs, Vice Chairs, and Section Membership Development Chairs, emphasizing the importance of membership, providing data on Section performance, and highlighting various tools and benefits available to promote membership.
- In August, IEEE-USA and IEEE MGA extended its collaboration on the Member-Get-A-Member Renewal Incentive program, through the end of the 2014 membership year. This program rewards members with IEEE-USA procured gift items, for making successful membership referrals. To date, 172 members have made 1,162 referrals, resulting in 367 new memberships (276 U.S. HG, 71 U.S. Student/GSM and 20 non-U.S.). The 32% conversion rate is much higher than typical rates for membership recruitment campaigns using purchased contact lists.
- At the IEEE-USA Annual Meeting in June, Blank recognized individuals who made successful member referrals, and Sections achieving positive net growth, and he invited them to share their success stories with an audience composed of U.S. IEEE volunteer leaders.
- IEEE-USA also supported *IEEE Spectrum's, New Career Guide*, a new annual publication targeted at graduating student members. In conjunction with publication of the guide, IEEE-USA announced a special promotion of three free e-books from the *Engineer's Guide to Lifelong Employability* series, and five complimentary student uses of the IEEE-USA Salary Calculator, as a tool for benchmarking salary offers.
- In addition, Blank engaged the IEEE-USA Board of Directors in a series of strategic discussions around the broad topic of membership value, during each of the face-to-face Board meetings. In February, we conducted a visioning exercise on *IEEE-USA in 2024*. In June, the BOD explored the question: *To enhance IEEE-USA's value in helping to grow U.S. membership, what can IEEE-USA do to increase the relevance (importance and satisfaction) of its offerings to prospective members in industry and academia (including those outside of the EE/CS core)?* The answers and ideas collected from these exercises are being used to format plans designed to enhance membership value for U.S. IEEE members.
- In October, Blank communicated with all IEEE U.S. Sections via personal letter, encouraging a final concerted push to recruit U.S. Higher Grade Members by year-end 2014.

American Association of Engineering Societies (AAES)

IEEE USA is an AAES Member Society:

- On 23 April 2014, the AAES Board of Directors approved amendments to its Constitution and Bylaws, changing its governance structure. AAES will now be governed by a seven-person Board, that elects its own chair, sets the AAES budget, and conducts the overall business of the organization. The member societies (including IEEE-USA) will convene as an Assembly.
- The National Academy of Engineering and AAES co-hosted the 2014 Convocation of Engineering Societies on 22 April. The Convocation featured a morning session on the implications of unconventional gas and natural gas resources for the U.S. energy outlook, a lunch keynote on liquid metal battery technology, and an afternoon session on the state of the engineering workforce.
- IEEE-USA co-sponsored the annual Engineering Societies Public Policy Symposium, held on 23 April 2014, in conjunction with the AAES Convocation. Blank introduced the keynote speaker—the Honorable Daniel Poneman, Deputy Secretary of Energy. Poneman highlighted the Department of Energy's priority initiatives, including the President's Climate Action Plan.





INNOVATION • EDUCATION • CONNECTION

Appendices

2014 IEEE-USA Board of Directors



Standing (left to right): Cherri Warren, Will Kassebaum, J. Derald Morgan, Mike Andrews, Dane Watson, Karen Panetta, Tom Tierney
Seated (left to right): Ed Perkins, Mary Ellen Randall, Jim Jefferies, Gary Blank, Karen Pedersen, Parviz Famouri, Kristi Brooks
Below: Board members not available for portraits due to winter-related travel issues.

IEEE★USA
2014 Board of Directors



Mark Apter



Chris Brantley



Thomas Habetler



Gigi Lau



Vincent Socci

President **Gary L. Blank**
President-Elect **James Jefferies**
Past President **Marc T. Apter**
Vice President, Career & Member Services ... **Will Kassebaum**
Vice President, Communications
& Public Awareness **Karen Panetta**
Vice President, Government Relations **Thomas Tierney**
Vice President, Professional Activities **Ed Perkins**
Secretary-Treasurer **Dane Watson**
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Region 2 Director **Parviz Famouri**
Region 3 Director **Mary Ellen Randall**
Region 4 Director **Karen Pedersen**
Region 5 Director **Derald Morgan**
Region 6 Director **Mike Andrews**
Member-at-Large (Senior) **Kristi Brooks**
Member-at-Large (Junior) **Thomas Habetler**
Technical Activities Representative **Cheri Warren**
GOLD Representative (NV) **Gigi Lau**
Managing Director (NV) **Chris J. Brantley**

2014 IEEE-USA Awards and Recognitions



Each year, IEEE-USA recognizes technical and professional achievements through its Awards and Recognitions Program. The 2014 IEEE-USA Awards and Recognitions will be presented during the 2015 Annual Meeting on 14-17 May in Milwaukee, Wis. The 2014 Awards recipients were:

Robert S. Walleigh Distinguished Contributions to Engineering Professionalism Award

- No recommendation

Award for Distinguished Public Service

- **The Honorable Barbara Mikulski**
For leadership, support and advocacy of scientific innovation and STEM education in the USA

Harry Diamond Award

- **Stephen C. Butler (Region 1)**
For outstanding contributions and exceptional technical leadership in the field of transducer design

George F. McClure Citation of Honor

- **Dan Christenson (Region 6)**
In recognition of his continued leadership through sustained contributions as an IEEE-USA mentor and volunteer
- **Winslow Sargeant (Region 2)**
For his dedicated representation of small business, especially technology start-ups, and his efforts regarding intellectual property rights, and their effects on small business and entrepreneurs

Regional Professional Leadership Award

- **Theresa Brunasso (Region 3)**
For planning and providing unique activities and speakers to strengthen the professional development of IEEE members
- **Bill Chiu (Region 6)**
In recognition for outstanding leadership in support of IEEE functions, and advancing power and energy initiatives, most notably in the transformers community
- **Jeffrey Friedhoffer (Region 2)**
For his work in advancing the IEEE-USA goals of advancing Science, Technology, Engineering and Mathematics (STEM) awareness to K-12 students, most notably in the area of robotics
- **Nasser Kehtarnavaz (Region 5)**
In recognition of his dedicated efforts in advancing engineering education, especially in the field of signal processing, and promoting events of great benefit to IEEE's U.S. members
- **Steven Kerchberger (Region 4)**
In recognition of his leadership, efforts and organization, which resulted in very focused and effective programs and activities in Region 4

- **Donald Sherwood (Region 1)**

For his efforts in promoting K-12 Science, Technology, Engineering and Mathematics (STEM) activities, and creation of grant and award programs honoring schools, organizations and educators in Region 1

- **Dr. Donghui Wu (Region 3)**

For identifying and leading activities promoting IEEE and the engineering profession, and inspiring active involvement of members and supporters

Professional Achievement for Individuals

- **Paul E. Dahlen (Region 4)**

In recognition of his significant mentoring, leadership and personal dedication in furthering the profession

- **George C. Giakos (Region 1)**

In recognition of his efforts in strengthening links between industry, government and academia

- **Brian J. Kennedy (Region 1)**

In recognition of his contributions in wireless communication to enhance public safety, and promoting engineering skills among inner city school students

- **Dr. Hakduran Koc (Region 5)**

For his long-term and significant professional contributions to the IEEE Student Branch at the University of Houston–Clear Lake and the IEEE Galveston Bay Section

- **Sampathkumar Veeraraghavan (Region 1)**

For his leadership, sustained excellence and significant contributions towards IEEE–USA technology-based humanitarian efforts

- **Tim Weill (Region 5)**

In recognition of his support and volunteer efforts, most notably in the organization of GLOBECOM and GREENTECH

- **Sherali Zeadally (Region 3)**

For sustained, outstanding professional activities to promote education and research in the field of computer networking and information security

Professional Achievement for Organizations

- **IEEE Boston Entrepreneur’s Network (Region 1)**

For support of the Entrepreneurial community, and contributions to the professional growth of individuals and organizations

Award for Distinguished Literary Contributions Furthering Public Understanding and Advancement of the Engineering Profession

- **Allison Marsh (Region 3) and Lizzie Wade**

For outstanding journalistic effort in returning prominence to the historical significance of the Smithsonian Institute’s engineering collection

K-12 STEM Literacy Educator-Engineer Partnership Award

- **Mohamad Musavi and Cary James (Region 1)**

In recognition of their outstanding leadership and dedication to the design and direction of the Bangor High STEM Academy

IEEE-USA Entrepreneur Achievement Award for Leadership in Entrepreneurial Spirit

- **Milton Chang (Region 6)**

In recognition of excellence in entrepreneurship, and his contributions as a mentor and prolific founder of U.S.-based businesses

Jim Watson Student Professional Awareness Achievement Award

- **Julie Gaevert (Region 6)**

For advancing professional awareness among IEEE student members, and for leadership in the IEEE–USA Student Professional Awareness Committee

For more information on IEEE–USA’s Awards and Recognition’s program, see: www.ieeeusa.org/volunteers/awards/

2014 IEEE-USA Sponsored Conferences

IEEE-USA supported a full schedule of sponsored and technically co-sponsored conferences for 2014, to offer U.S. members a chance to refresh and revitalize, by networking with colleagues and receiving lifelong learning in topic areas of interest to them—another way for members to realize the benefits of maintaining their IEEE memberships. These conferences are also excellent opportunities for educating non-member attendees about the benefits of IEEE membership:

2014	CONFERENCE	IEEE-USA ROLE
19-22 Feb.	IEEE PES Innovative Smart Grid Technologies Conference Washington, D.C.	Technical Co-Sponsor
3-4 April	IEEE Green Technologies Conference Corpus Christi, Texas	Co-Sponsor
14-17 April	IEEE PES Transmission & Distribution Conference & Exposition Chicago, Ill.	Technical Co-Sponsor
1 May	International Engineering, Security & Project Professionals Conference , College Park, Md.	Technical Co-Sponsor
16 May	IEEE-USA Technologies for Innovation Conference (InnoTek 2014) Warwick, R.I. (Providence area)	Sponsor
23-24 May	2014 IEEE International Symposium on Ethics in Engineering, Science and Technology , Chicago, Ill.	Co-Sponsor
8-13 June	IEEE Photovoltaics Specialists Conference Denver, Colo.	Technical Co-sponsor
24-26 July	2014 IEEE Conference on Technologies for Sustainability (SusTech) Portland, Ore.	Co-Sponsor
27-31 July	IEEE Power & Energy Society General Meeting National Harbor, Md., (Washington, D.C., area)	Technical Co-sponsor
20-21 Sept.	World Maker Faire Queens, N.Y.	Exhibitor
10-13 Oct.	2014 IEEE Global Humanitarian Technology Conference San Jose, Calif.	Co-Sponsor
27-29 Oct.	IEEE NewNEB DC Utility Power Conference & Exhibition Ronkonkoma, N.Y. (Long Island)	Organizer
30-31 Oct.	2014 IEEE Int'l Conference on Wireless for Space & Extreme Environments (WiSEE) , Noordwijk, The Netherlands	Co-sponsor
3-6 Nov.	2014 International Conference on Connected Vehicles and Expo Vienna, Austria	Co-sponsor
13 Dec.	IEEE Signal Processing in Medicine and Biology Symposium Philadelphia, Pa.	Co-sponsor

2014 S-PACs, S-PAVEs, S-PAWS, SPAX Events

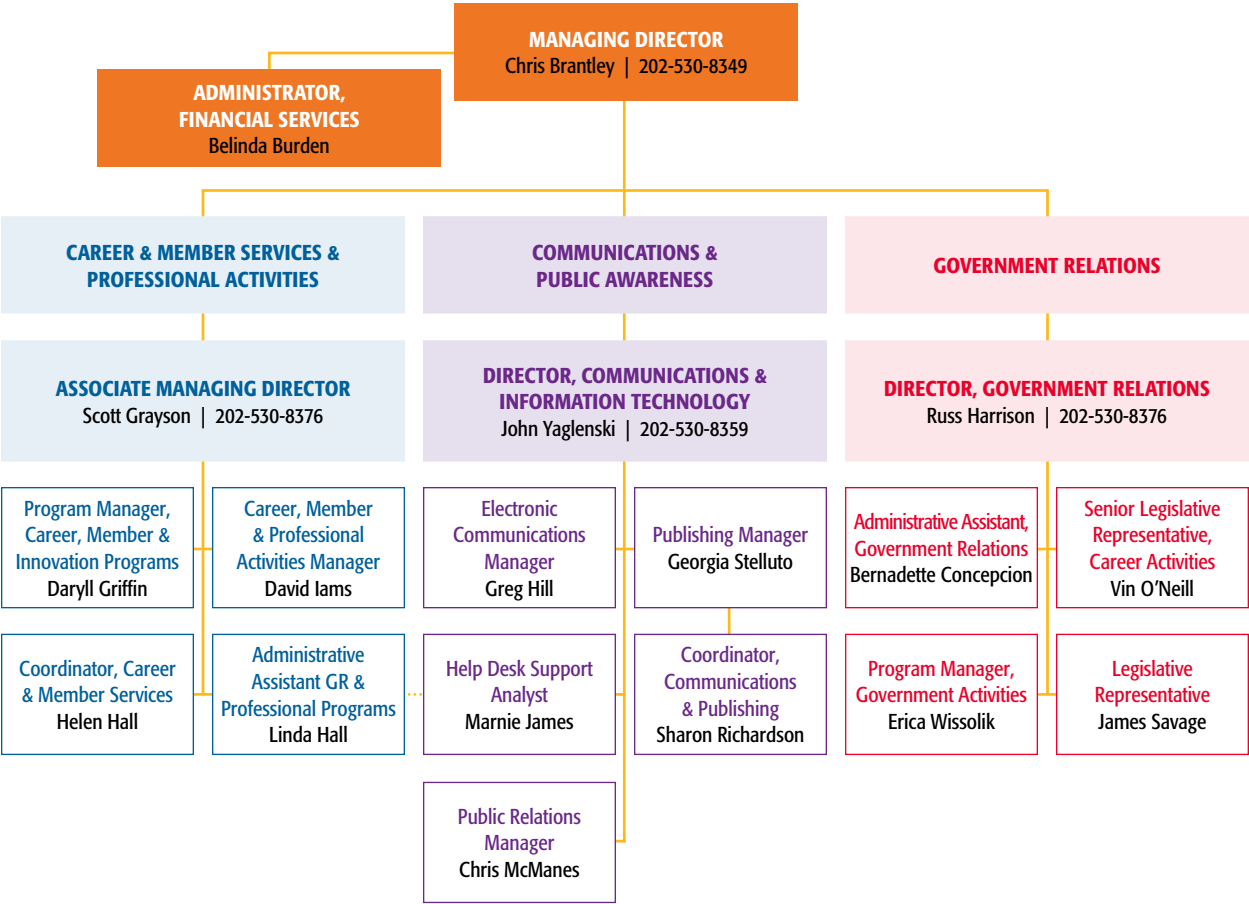
DATE	SCHOOL
1/25	University of California, Los Angeles - S-PAVe
2/3	Cleveland State University - S-PAC
2/3	University of Southern California - S-PAC
2/8	Cleveland State University - S-PAVe
2/12	Cedarville University - S-PAC
2/13	Cal State University - Fullerton - Mini-S-PAC
2/18	Rowan University
2/22	University of Illinois at Urbana-Champaign
2/22	Valencia College - S-PAVe
2/24	Florida Institute of Technology
2/28	University of Texas at Arlington
3/1	University of Hawaii at Manoa - S-PAC
3/4	Missouri University of Science & Technology
3/14	Boise State University - S-PAC
3/21	Broward College - S-PAC
3/22	Central Michigan University - S-PAC
3/22	Utah State University - S-PAC
3/24	Broward College - S-PAC
3/27	Cleveland State University - S-PAC
3/28	Broward College - S-PAC
3/29	Region 5 (With Committee Meeting) - SPAX
4/1	Youngstown State University - S-PAC
4/4	Broward College - S-PAC
4/5	Texas A&M-Kingsville/Texas A&M Corpus Christi
4/8	University of Kansas
4/9	University of Washington - SPAVe
4/3-4/10	University of Cincinnati
4/12	Drexel University
4/12	Saginaw Valley State University
4/12	University of North Texas

DATE	SCHOOL
4/16	Ohio University - S-PAC
4/16	Pennsylvania College of Technology
4/16	University of California, Irvine - S-PAC
4/17	Penn State University - Harrisburg
4/17	Texas Tech University, Lubbock - S-PAC
4/30	Cleveland State University - S-PAC
8/4	Cleveland State University - SPAX
8/23	DeVry University On-Line - Webinar SPAX
9/8	University of Dayton - S-PAC
9/16	University of Texas at San Antonio
9/23	Capitol College S-PAC
9/29	Youngstown State University - S-PAC
10/1	Norwich University - S-PAC
10/4	Cleveland State Univ - Student/Section SPAX
10/7	Cleveland State IEEE Day Workshop - SPAX
10/14	DeVry University On-Line - Webinar SPAX
10/14	Mississippi State
10/18	Region 6 (with Committee Meeting) - SPAX
10/24	University of Houston, Clear Lake - S-PAVe
10/30	Rowan University - S-PAC
10/30	City College of New York
11/4	DeVry University On-Line - Webinar SPAX
11/10	Case Western-Reserve University - Mini-S-PAC
11/12	Cleveland State University - S-PAC
11/13	Richard Stockton - Webinar SPAX
11/17	Christian Brothers University
11/18	Ohio Northern University
11/21	University of Oklahoma
8/25-12/5	Cleveland State University - Progressive SPAX
12/9	DeVry University On-Line - Webinar SPAX

IEEE-USA 2014 Volunteer Organizational Chart



IEEE-USA 2014 Staff Organization Chart





About IEEE-USA

IEEE-USA advances the public good and promotes the careers and public policy interests of more than 200,000 engineering, computing and technology professionals, who are U.S. members of IEEE. With more than 400,000 members in over 160 countries, IEEE is dedicated to advancing technological innovation and excellence for the benefit of humanity. More information about IEEE-USA can be found online at: www.ieeeusa.org.

IEEE-USA's offices are located at:

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About the Annual Report

The *2014 IEEE-USA Annual Report* highlights the mission, goals and programs of IEEE-USA, and its activities and achievements in 2014. This Report was developed, produced and published as a free benefit to members—to increase both member and non-member awareness of the programs and services IEEE-USA provides to advance the profession—and for the benefit of U.S. IEEE members. It also serves as a reference for members seeking information on specific programs or issues, or for those seeking opportunities to volunteer their time and expertise, in support of their profession.

**Composed, Edited, Produced and Published by Georgia C. Stelluto,
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E-BOOKS**



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