Welcome, Ron Tabroff  
R 1 Director 2016-2017

Thank you, Vincent Socci  
R 1 Director 2014-2015

Participants of the Region 1 Board of Governors meeting, Philadelphia, PA, 1 August 2015
Principal Region 1 officers for 2014 –‘15

Chairman of BoG and Director:  Vincent Socci, SM
Vice chair and director-elect:   Ronald A. Tabroff, SM
Secretary:  Charles P. Rubenstein, LSM
Treasurer:  Bala S. Prasanna, SM
Past Director:  Peter A. Eckstein, LSM
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The state of the RegiOne

As the editor of RegiOne it has always been my desire to disseminate information that may be deemed relevant to the activities at the Region 1 level and also in the 22 Sections under its umbrella. I felt that as part of a not-for-profit and tax-exempt organization we have the moral responsibility to inform the communities surrounding us as to what we are and what we do for the advancement of technology for the humanity. As a long-time member of the IEEE I believe that our constitution implies this responsibility. With this perspective in my mind I looked at the newsletters of all IEEE Regions and dreamt of making RegiOne the best of the genre in the realm of the IEEE. I spent many sleepless nights designing it and writing for it. However, you may realize that I cannot be a ghost writer. We can make any IEEE publication (all of them, not only the newsletters) successful and productive only when members collaborate with the editors by contributing news items and articles. A newsletter must bring news worthy of distribution to our members. Otherwise, according to the IEEE definition, it would be called a bulletin and not a newsletter. The IEEE is very specific about the manner in which the information is disbursed. Any IEEE publication is one of the many public faces of the organization. The matter is so important that the IEEE Board of Directors has given the Publication Services and Products Board (PSPB) the status of a major board. All IEEE publications are required to follow the general rules and outlines as stated in the PSPB Operations Manual (amended on 21 November 2014).

Is the RegiOne in its present form an example of a perfect IEEE newsletter? The answer obviously is “no”. I think we have enough scope for improvement. I need constructive suggestions from you to create a general guideline (for me and the future editors) as to what should constitute an ideal Regional newsletter. I submit that you as readers of RegiOne consider the following for developing a guideline for the RegiOne.

- **What is the newsletter’s intended target readership?** (Please note that the RegiOne currently available to anyone interested in our activities.)
  - The public in general?
  - Only the members of the IEEE?
  - Any member in Region 1?
  - Only to the members of the R 1 ExComm?

- **What should RegiOne focus on:**
  - General news obtained from the e-mail exchanges between the ExComm members (only those copied to the editor can be included)?
  - Create a common forum for members in Region 1?
  - Only specific messages from the R 1 Director, any member of the ExComm, Area Chairs, the Section chairs? Should all such potential contributors be informed that it is a part of their responsibilities to inform others in the IEEE about their activities? Who will make that request for their individual contributions?
  - What should be included in the calendar of events? Just one/two annual meeting(s) of R 1 ExComm, any other important “one-of-its-kind” event at any Section in R 1? Clearly, it will be impossible to include all events that the Sections...
may consider important. Then, who will judge their relative importance without undermining a Section?

- **Do we collaborate:**
  - With all Sections in the Region 1?
  - With editors of other Regional and/or Section newsletters (especially when a topic is of interest to all IEEE members)?
  - With other IEEE and non-IEEE entities who may be working on projects of interest to the IEEE and engineers in general (e.g., STEM incentives, EPICS project, and Engineers without Borders)?
  - Bearing in mind that the IEEE has a global reach do we publish news about those projects to gain knowledge from the initiators’ experience and share ours with theirs (please remember our motto: Advancing Technology for Humanity)?

- **Do we incorporate:**
  - Reports/reviews of popular scientific/technological articles (from whatever source), volunteer projects, and mentoring efforts as allowed (and, I imagine, implicitly encouraged) by PSPB?
  - Reports and reviews of technical work and publications only from a member of the Region 1?
  - An annual list of IEEE Fellows and other award winners in the Region 1? Should we acknowledge and appreciate their accomplishments with cutting-edge technologies?

The above are the questions that readily come to my mind. I am sure all of you have your individual questions and suggestions. I would appreciate if you air them loud. For the time being, please ignore the color schemes, the choice of fonts or mundane typos; they are not so important. (I am not an artist, a web designer, or an expert in publishing. And I do not have a copy editor to check the typos.) The publishing industry is evolving rapidly and I am a keen observer of this change. Look at the IEEE Spectrum magazine - how its editors mix and match fonts and the colors. Browse through the Wired magazine, see how they make it more readable. Even the journal, Proceedings of the IEEE, in which I have had the privilege of publishing recently, is following the same path. Most readers, all over the world, seem to be pressed for time and an editor’s job is to clinch their attention during the wee bits of their spare time. Thus, the contents are our most important assets and only after an open discussion we can make the RegiOne more attractive, more reader-friendly, a newsletter of pride of the Region 1 and indeed of the IEEE.

Thank you.

Amitava Dutta-Roy, PhD, IEEE LF
718 297 9623
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22 September 2015
The 2015 Region 1 Board of Governors (BoG) held its annual meeting in Philadelphia, PA on Saturday August 1, 2015. Interestingly (and perhaps a puzzle to my readers), Philadelphia, PA is not located in IEEE Region 1. It is situated in IEEE Region 2. Region 1 director Vince Socci said that the “IEEE is trying to foster cooperation between the IEEE Regions”. In that vein, and lured by an invitation of Region 2 director Tim Kurzweg, Vince scheduled this year’s BoG meeting in Philadelphia, PA.

A Regional Board of Governors’ annual meeting is always a very tightly scheduled and information packed. The agendas are crammed with many committee reports and action items that must be completed as they make up an important part of the business. Region 1 meetings are no exception.

The Philadelphia BoG meeting began with an executive session for only for the voting members of the R1 ExComm to review the awards committee report and motions. As you read this article you should look around your own Section and seek out people volunteering for the IEEE. If in your opinion some of them deserve awards from R1 by all means nominate them for such coveted awards. The Region 1 Website at http://sites.ieee.org/r1/committee/awards/ provides nomination forms and instructions for filling them. Award nominations from the Sections, due in June, are reviewed annually at the BoG Awards Committee meeting.

The full session of the 2015 BoG meeting began after the discussion and deliberation on the awards by the voting members. The annual BoG meeting is run by the chair of the Region’s BoG who, in our case, is the 2014-2015 Region 1 director, Vince Socci. The vice chair (and the director-elect for 2016-2017) Ron Tabroff, past director Peter Eckstein, secretary Charles Rubenstein and treasurer Bala Prasanna collaborated with Socci to successfully conduct the meeting. Incidentally, the IEEE insiders playfully call the immediate past director as the “father” of the current director.

After the routine call to order, roll calls, agenda approvals, review of minutes of the last BoG meeting we started our 2015 assembly. Region 1 director Vince Socci began the proceedings by introducing several invited guests—the current IEEE-USA president Jim Jeffries, Region 3 director Mary Ellen Randall, and Region 2 director-elect Kate Duncan. He then presented the candidates for the offices of the 2016-2017 Region 1 director-elect, the 2016 IEEE and IEEE-USA presidents-elect. In addition to offering his remarks and award announcements as R1 director Vince discussed IEEE (VOLT) Volunteer Leadership training program for 2015. A Facebook page gives at https://www.facebook.com/ieee.volt gives the information useful for prospective applicants. The R1 director also announced the new IEEE Collabratec program, an integrated online community, where technology professionals can network, collaborate, and create all in one central hub. The Collabratec offers a suite of productivity tools and is available to technology professionals around the world with exclusive features for IEEE members. There is no fee to join Collabratec. There is more information located at https://ieee-collabratec.ieee.org/

The R1 director informed the BoG attendees that the IEEE Sections Congress in 2017 will be held in Sydney, Australia. Vince also gave us another interesting bit of news about the IEEE in 2030 Challenge’s call for proposals. The IEEE is always looking for ways to better serve the needs of engineers and technology professionals and, the IEEE in 2030 program was
started to support innovative ideas. More information and the proposal forms are located at http://www.ieee.org/about/initiatives/2030_challenge.html.

The Region’s financial status was reported by the R 1 treasurer Bala Prasanna, and the Audit Report was given by the internal auditor Hal Ruchelman who remarked that the treasurer as doing a splendid job. Then the immediate past director Pete Eckstein presented the 2016 Region 1 Budget proposals. The 2016 budget for R 1 was amended wherever deemed necessary and presented for approval, and the motion was approved.

As the BoG meeting moved forward the Region 3 director Mary Ellen Randall talked about an interesting IEEE project called MOVE (Mobility and Vehicular Networks). This is a project you will hear more about in the future. The IEEE is working on a vehicle that will be used to provide chargers for cell phones and emergency cell phone networks during disaster relief efforts.

The Technical Activities Division I Director Ellen Yoffa and Region 1 Society Liaison, narrated the work-in-progress of the IEEE 2030 initiative.

An important aspect of the meeting was the the Region 1 Area Chair elections just before lunch. The 2016-2017 Region 1 Area Chair elected by the section chairs/representatives in their Area were announced by director Socci to be Ralph Wyndrum (Southern), Baback Izadi (Central), Dan Sniezak (Western), and Harold Belson (Northeastern).

Another important part of the BoG meeting was the presentations of the candidates for 2016 president-elect of the Region 1. Vince Socci elicited questions from the BoG members for the candidates then subtly culled them. He then threw the selected question(s) to the candidates and flipped a coin to determine the order of answering them. All of us felt that the format was fair and extracted most information from the candidates in a short period of time. All candidates did a fine job in responding to pointed questions about the IEEE and what they would do if elected to their respective desired positions. Read more about the candidates’ views in the next column of this newsletter.

In the afternoon, reports of several committees were presented: Membership Development Trends, PACE, Strategic Planning Committee, and those from the four Area Chairs.

As the meeting was smoothly winding down, thanks to the efforts of Vince Socci and the R 1 Secretary Charles Rubenstein, a traditional ritual had to be performed. it was the last R1 BoG meeting that director Vince Socci would oversee. His term ends at the end of the calendar year but since this was the last BoG meeting, the traditional passing of the gavel to the next Region 1 Director had to be performed. Director Socci has a most unusual gavel in the shape of Thors Hammer (Mjolnir). As the hammer was passed from 2014-2015 Director to the 2016-2017 Region 1 Director Ron Tabroff, our kind of the changing of the guard was enacted. In the IEEE BoG jargon, Vince Socci is now turns Ron Tabroff’s “father” and the chain will continue.

Like (nearly) all IEEE Meetings, the Region 1 Board of Governors Meeting is open to any current IEEE Member when it is not in executive session. Our next Region 1 Annual Meeting will be in August 2016, possibly in New Hampshire – the home to our 2016-2017 Director! I hope to see you there!

We thank Bruce Rubin for sharing the photographs of the 2015 BoG meeting
To see more of his BoG photographs please visit the Shutterfly cloud site:
https://share.shutterfly.com/share/received/welcome.sfly?fid=7ffbec632722041d&sid=0BbuHDo5aMmIT

RegiOne, Newsletter of IEEE Region 1, Vol. 2, No. 2
Cathy Ann Clark  
Section Chair, Providence Section

Two new Chapters have been approved by MGA under the Signal Processing (SP) and Oceanic Engineering (OE) Societies. The Acting Chairs are Cathy Ann Clark of the Naval Undersea Warfare Center, Newport, RI and Sandy Williams of Woods Hole Oceanographic Institution, Woods Hole, Mass. respectively. The initial OE Chapter meeting featured a presentation by Dr. M.A. Atmanand from Chennai, India and the SP Chapter toured the bat echolocation lab of Jim Simmons at Brown University followed by a delightful dinner and presentation at the Brown Faculty Club on 26 May 2015. The IEEE Distinguished Lecturer and Editor-in-Chief of the IEEE Signal Processing Magazine, Min Wu also gave a presentation on Computer Forensics on 9 June at the University of Rhode Island. A third Chapter under the Engineering in Medicine and Biology (EMBS) Society has been successfully revitalized under new leadership with Walter Besio of the Electrical Engineering Department of the University of Rhode Island serving as Chair and Benjamin McPherson of Roger Williams as Secretary. A kick-off meeting was held on Tuesday, 17 March, 2015 in Seekonk, Mass.

We now have four active Student Branches in our area. The branches at Brown University in Providence, RI, the University of Massachusetts in Dartmouth, MA, University of Rhode Island in Kingston, RI, are now joined by a new branch at Roger Williams University in Bristol, RI with Kelsey Cintorino serving as Chair and Benjamin McPherson as Faculty Counselor.

In other news, we have several activities in robotics in which various groups participate. Below is a photograph of coach Dickison and his Rogers High School Robotics Team receiving Senate Citations for winning the 2015 Regional Sea Perch Derby, and one of the teams at the national level.

Other news on Robotics: Jacob George and Cathy Ann Clark supported an IEEE table at the 2014 Robotics Block Party (11 April, 2015) at Brown University where John Raiti was a coach. The IEEE Student Branch Micro Mouse Competition was also held and well attended. Jacob George also attended the First Robotics Competition on 21-22 March, 2015 at Bryant University in Smithfield, RI.

On the lighter side we recently enjoyed a day on Block Island and we are looking forward to another exciting Yankee Steam-Up at the New England Wireless and Steam Museum on 3 October, 2015.
RegiOne thanks Cathy Ann Clark for submitting news on the activities of her Providence Section. We welcome such reports from all our Sections. Let all of us share our experiences at every level of IEEE activities. We would also urge you to encourage your IEEE colleagues to read the RegiOne and the newsletters of other Sections. After all, we are members of one and the same IEEE. Please include the title and IEEE membership grade of the contributor. Thank you!

Sridhar Raghavan, editor of the newsletter of the New Hampshire Section has sent us the link to the publication: http://www.ieee-nh.org/Docs/NL/archive/2015/IEEE_NH_NL-2015-09/index.html. Thank you, Sridhar.
By

now all of you, IEEE members in good standing, must have received the ballot papers for the annual elections at the IEEE. This is an important event for all of us: young and old; and entrants to the engineering profession and experienced hands! As stakeholders in the IEEE we all have a say as to how it should be run, how we can improve its performance; how we can polish its public image; and what members’ benefits we expect from it et cetera. Each of the election candidates has his/her own view in these respects. We urge you to read the election booklet at http://www.ieee.org/about/corporate/election/2015_election_booklet.pdf where you will find the viewpoints of the candidates and their past contributions to the IEEE. The booklet also tells you how to vote online (or by mail). Please remember that no ballot will be accepted after 12 noon Central Time (USA) or 17.00 (UTC), 1 October, 2015. In the following we give the salient points—unedited except for the fonts—of the candidates’ views as they will immediately affect the Region 1. Being an old-fashioned editor I have taken the liberty of placing the “ladies first” for the names of the candidates vying to be elected as the IEEE and IEEE-USA president-elect respectively. Other two candidates (both males) are mentioned in alphabetical order of their last names.

More on the president-elect candidates for IEEE: http://www.ieee.org/about/corporate/election/candidates.html

Q&A with the candidates: http://www.ieee.org/about/corporate/election/2015_qa_ieee_pe_candidates.pdf

More on the president-elect candidates for IEEE-USA: http://www.ieee.org/about/corporate/election/usape.html

Q&A with the candidates: http://www.ieee.org/about/corporate/election/2015_qa_usa_pe_candidates.pdf

CAST YOUR VOTE:
www.ieee.org/elections
Candidates’ views on the IEEE

Karen Bartleson
Candidate: president-elect IEEE 2016

I believe the IEEE is in good health and we are growing in quite a few areas. We will face challenges as we always have to stay relevant in an ever-changing world. As we work towards more involvement in global public policy and address the needs of today’s young professionals, we will overcome these challenges. One person as President for one year cannot make this happen alone. The President must support the strategic plan and goals of the IEEE, which I do.

BRING YOU GREATER VALUE FROM YOUR MEMBERSHIP

The needs of our practitioners today are equally as important as those of our students and young professionals, our future technologists. I will direct my attention to both, ensuring you are aware of the breadth of member benefits available; encouraging you to take full advantage; and enhancing benefits globally wherever possible.

BRING GREATER VISIBILITY TO OUR PROFESSION

We are responsible for the greatest technological advancements of the human race. I will increase our visibility, so we are well-known and highly valued throughout the world. I am involved in three globally-visible initiatives in which IEEE is already making progress. The Internet Initiative’s goal is to help restore trust in the Internet, given spying, hacking, identity theft, and other misuses that threaten our way of life. We are becoming involved in global public policy, bringing our expertise to policy makers. Our global standards are enabling technologies and industries such as Smart Cities, the Smart Grid, and the Internet of Thing.

BRING THE IEEE TO MORE GLOBAL AND LOCAL COMMUNITIES

The IEEE is growing in regions all over the world. There is a difference between IEEE being a global organization – which means IEEE is present everywhere with uniform goals – and globalizing the IEEE – which is IEEE addressing diverse needs at local levels. By enabling emerging technologies that span multiple societies, providing technology-related insights into public policy, and using powerful communication tools, we can be both global and globalizing.
Dear Region 1 colleagues, let me summarize my positions on a few of the IEEE’s most important issues.

1. Internet magazines, social media, and Open Access publishing are allowing other organizations to provide significant value to IEEE members – which lessens the IEEE’s perceived value. **The IEEE needs to create and provide more value for members.** Enhanced networking and collaboration opportunities, high-visibility projects that demonstrate IEEE commitment to advancing technology for the benefit of humanity, and offerings that target non-academic members are among the ways IEEE should increase member value. For more, see my Position Statement at [http://www.FredMintzer.net](http://www.FredMintzer.net).

2. I believe in a volunteer-led IEEE that is responsive to its mission, its core values, and the needs of members. I opposed the proposed IEEE Constitutional amendment because it removed too much authority from the members – which are our organizational compass. For more on my position, see: [http://online.qmags.com/CMG0815/printpage.aspx?pg=111%2C112%2C113%2C114](http://online.qmags.com/CMG0815/printpage.aspx?pg=111%2C112%2C113%2C114).

3. **Greater financial transparency is very important** to enable IEEE decision makers to make better decisions – and to better understand, and manage, the growth of IEEE infrastructure expenses. I favor continued attention to this issue at the IEEE Board level. For more on my position, see: [http://online.qmags.com/CMG0815/printpage.aspx?pg=111%2C112%2C113%2C114](http://online.qmags.com/CMG0815/printpage.aspx?pg=111%2C112%2C113%2C114).

The number one goal for IEEE leadership is the creation of the IEEE of the future an organization that meets the needs of current membership and is nimble in responding to changing needs. The IEEE of the future must be able to accommodate:

- Members that have up to seven careers in their professional life,
- The constant evolution of Young Professionals in a constantly changing world,
IEEE handles a challenging task that many of the members do not fully appreciate. We have multiple operating units and a board of volunteers. We involve ourselves in complex business and industry decisions through these operating units. Volunteers have limited resources so we must rely on staff.

We have a very large staff with salaries. Striking a balance so that members retain a say in the future direction of IEEE, which is also a non-profit, is a real challenge. This should require open discussions with members about the details involved in striking this balance. It is the only way that a non-profit can get things done using paid staff and maintain a future course that will entice members to remain members by letting them have a say in how to "steer the ship".

Babak Beheshti: Candidate: Delegate-elect/Director-elect: Region 1: 2016-2017

I believe that my strength as the Region 1 Delegate-Elect/Director-Elect will be the combination of my solid understanding of, and the commitment to, the IEEE’s local activities through my long standing ties to Sections and Councils, and with my experience in several leadership positions at the IEEE at the national and global levels.

I have maintained a balance in my career, both as an academician and as a practitioner, in the industry in various positions of leadership. This has given me the opportunity to have a deep perspective of the issues and challenges facing the engineering profession, both from the academic vantage point, as well as the practicing engineers’ outlook.

My commitment to the IEEE members is that I will utilize my skills and experience to bring about effective changes in streamlining IEEE’s member-focused services, and increasing IEEE’s relevance to the practicing engineer by providing networking, access to technology, and technical training. I will also pursue promoting the prestige and value of membership in the IEEE as the world’s largest professional association and our role in the global community
I have held many leadership positions in IEEE – Region 1 (Northeastern USA), Boston Section, Chapter, Young Professionals, Societies, and Conferences. Region 1 has been facing a number of specific trends that affect our membership, and their needs and expectation have been changed over the years. The opportunities and benefits of membership are endless, and yet, many do not believe that IEEE is essential to their careers. If elected, I would use my experience gained from serving many IEEE committees to enhance the operation of Region 1 Board, Sections, and Chapters. All officers will receive proper training, knowledge, and skills to effectively perform their volunteering tasks. I will also improve the existing tools, and create new tools to improve the volunteers’ productivity. With great volunteers and tools, we can better serve our members, be able to meet their needs, and make them say "wow." Being a young candidate, I can bring fresh ideas and not be afraid to make changes. We need to change to maintain the elite status of IEEE being the largest professional society in the world.

Maintain your membership of the IEEE
It brings many personal and professional benefits
Visit: www.ieee.org
Whenever a natural disaster strikes, many IEEE members wish they could somehow help the victims. It would be nice if our volunteers could provide support that utilizes their special talents at such a time. For, the IEEE volunteers have always been quick to rally around a meaningful technology initiative designed to educate young and old, alike, and provide social benefit and comfort to others.

The goal of the MOVE project is to define and implement a Community Outreach vehicle MOVE (MObile VEhicle) which engages members, educates others, and builds STEM (Science, Technology, Engineering and Math) awareness. MOVE will be a vehicle specially designed and equipped to provide communications to the general public when power and communications infrastructure are impacted by a natural disaster. In particular, multiple means of communicating and special power will be provided so that people at home and at disaster shelters can reach out to family and friends to let them know they are safe and to learn more about the scope of the disaster. Services provided include: Satellite communication, Wi-Fi hotspot, Internet access, phone charging, news display, etc. Since the vehicle is mobile, it can be rotated between disaster relief sites in a hard hit area.

Thus, MOVE will also provide IEEE members many opportunities for meaningful engagement in the design, development, implementation and staffing of this project. It will moreover let the communities surrounding us how we can share our talents and resources with them.

When not deployed at a disaster, MOVE may be taken to schools, fairs, etc. to showcase leading technologies and to reach out to youth with regard to the social impact these technologies have on society. Many students select their field of study based on the perceived benefit that they provide to the public. One of the messages of MOVE will be that individuals and groups can be greatly helped by engineering work in the fields of power and energy, automotive technologies, mobile technologies, and various communications technologies such as cellular, satellite, broadcast etc. A vehicle that uses alternative source of energy and provides communications help to disaster survivors will draw the attention of students.

There will also be opportunity to reach out to industries in the development of this project seeking their support, knowledge, and cooperation.

Our goal is to begin MOVE deployments during the first quarter of next year.

If you wish to help, a small donation to the IEEE Foundation MOVE Fund can go a long way to help [https://www.ieeefoundation.org/donate](https://www.ieeefoundation.org/donate) and select “IEEE MOVE Project Fund”.

For more information, contact [merandall@ieee.org](mailto:merandall@ieee.org)
In the following pages we reproduce the flyers re IEEE events that we have received.
IEEE/IBM WATSON STUDENT SHOWCASE COMPETITION

Brought to you by IEEE and IBM STUDENTS FOR A SMARTER PLANET #ieeeibmwatson

You & Watson & Cognitive Computing. What will you create with Bluemix?

Apply your skills & creativity to create a cognitive app using Watson

Watson is a cognitive technology that processes information more like a human than a computer—by understanding natural language, generating hypotheses based on evidence, and learning as it goes.

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Apps

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- Teamwork – networking – boosting your resume.... all things to set you apart and give you a competitive advantage
- Receive an IEEE Certificate of Achievement & those all-important bragging rights
- Earn a chance to win cash prizes up to US$2000

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Register your intent to participate NOW!

https://ieeeibmwatsonshowcase.fluidreview.com
For complete details about eligibility, application procedures and selection criteria please visit: http://bit.ly/1aKlrxE

Completed entries due: 30 September 2015:
Teams will submit an executive summary, a 1-2 minute demo video, & a text copy of source code.

Students for a Smarter Planet

IEEE
You are invited to a meeting of the PES & IAS NY Chapter and the NY LMAG on:

Communications: From There to Here and to There Again in the Future

Tuesday, September 29th, 2015

THE PRESENTATION:

This presentation is all about communication and networking. When did the mechanical communication between remote locations really take off? We assume the proverbial smoke signals to semaphore and the birth of communications technologies! Remote communications gave rise first to relaying of messages and then to networking. In the modern times (late 1950s), campuses of the University of Hawaii in various islands developed the concept of wireless networking. That was the only way by which the campuses could communicate with each other in real time. Apy, they called it the Aloha network. The development of this concept led to the invention of Ethernet. In a parallel path, the US DoD funded research for instant communications between mainframe computers located in different parts of the country. The advent of personal computers jump started the networking as we know it today. Smart phones contributed to the growth. We have come a long way from the noisy telephone line modems. We now can brag of 5G and Gigabit connection. How do we support such growth in insatiable demand for bandwidth? How do we manage the radio spectrum for communications? What are the business and societal implications? What is in the near future: nanotechnology, flexible optical network, fiber to the home? One size does not fit all. Many questions give rise to many more views on the super information highways. What is the future? Are we succeeding in the race to catch up with other industrialized countries? It is a fascinating tale of technology, money, and politics.

THE SPEAKER: Dr. Amitava Dutta-Ray

Amitava Dutta-Ray, IEEE Life Fellow. Amitava taught electronics and communications at the University of Sao Paulo and Brazil’s National Institute for Space Research. Later, he consulted with the UN Office of Science and Technology, International Telecommunication Union, AT&T, France Telecom and AT Kearney, and Brazil’s Telebras. He started writing on technology for magazines in 1988. Since then he has written for the IEEE Spectrum (that led to an award from the American Society of Business Press Editors), IEEE Communications Magazine, IEEE Transactions of Professional Communications, Harvard University’s Program for Information Resources Policy monographs and other lesser known magazines. Currently, Amitava is the editor of the IEEE NY Section Monitor, editor of RegiOne of IEEE Regions 1 and a contributing editor of the Proc. IEEE. He is also the IEEE NY Section’s historian and the acting chair of the Life Members’ Affinity Group. Amitava graduated in physics in India and later earned both BSc and PhD degrees in electronic engineering from Imperial College, London.

ALL ARE INVITED – PLEASE POST

RSVP: https://meetings.rtfpools.org/ny/33912
Chair Programs: Arnold Wong
wongar@coned.com or (212) 460-4189

FOR SECURITY REASONS: NO WALK INS!

This program will be awarded IEEE Continuing Education Units.

THE INSTITUTE OF ELECTRICAL AND ELECTRONICS ENGINEERS, INC.
IEEE GLOBAL HUMANITARIAN
TECHNOLOGY CONFERENCE (GHTC)
Technology for the Benefit of Humanity
October 8 - 11, 2015
Seattle, Washington USA

GHTC is a global humanitarian technology conference focused on bringing together people to address the critical issues for the benefit of the resource-constrained and vulnerable populations in the world. It is an opportunity for IEEE to work with NGOs to identify the most pressing needs. IEEE GHTC focuses on advancing technology for the benefit of humanity. This cross-disciplinary annual conference provides the perfect venue for those interested in humanitarian projects to join their peers in Seattle in October 2015.

Conference Mission:
- Foster exchange of information, networking, and cooperation in the humanitarian and emergency management fields.
- Focus attention on businesses who are enabling technologies in support of humanitarian principles and ways of operating.
- Impact in positive and meaningful ways lives of disadvantaged billions of people around the world.
- Highlight humanitarian technologies that promote successful practice, and attract humanitarian and emergency management practitioners in order to learn from their successes and better guide future research.

Conference theme "Technology for the Benefit of Humanity" focus areas:
1. Energy: Electrification, renewable energy technologies, energy and power infrastructures, off-grid power, lighting, cooking, heating
2. Health: Medical technology, telemedicine, mobile care, primary care, nutrition
3. Disaster Management: Disaster preparedness and planning, early warning, response systems, needs analysis and assessment, community mobilization, monitoring and evaluation
4. Connectivity & Communication: Information networks, information technologies and systems, communication technologies, social media
5. Humanitarian Challenges & Opportunities: Logistics and transportation, security (infrastructure, information, human), shelter, interagency coordination, human-centered system design, participatory methods
6. Water & Sanitation: Clean water, sanitation, solid waste management, vector control, drainage, hygiene
7. Agriculture: Agricultural technologies, irrigation, farming practices
8. Education: Training and capacity building, programs and methods, service learning

Why Attend?
- Participate in an extensive, vibrant, and innovative technical program
- Learn from world-class practitioners working in the field
- Exchange information, share experiences and network with actively involved attendees
- Gain visibility and recognition for your humanitarian work and projects
- Find new resources, ideas, and potential partners or investors

Conference Chair
Joe Decuir
Conference Vice-Chair
Sheeree Wen
Past Conference Chair
Catherine Nelson
Secretary / Program Manager
Erik Gods
Finance Chair / Treasurer
Sooan Wan
General Program Chair
Nathan Johnson
Technical Program Chair
Robin Mays
Speaker Program & Hackathon Chair
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Verona Wong
Registration Chair
Scott Yamashiro
Publication Chair
Jeffrey Pawlan
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RegiOne, Newsletter of IEEE Region 1, Vol. 2, No. 2
**IEEE WIE Summit USA East 2015** in Philadelphia, PA on 6-8 November 2015 focuses on developing and improving leadership skills for individuals at all stages of their careers. Attendees will have the opportunity to hear inspirational and empowering talks presented by successful leaders from IEEE USA North-East region. Emerging technologies will also be demonstrated, engaging attendees to facilitate discussion and potential advancement of STEM outreach class ideas.

**Conference Highlights:**
- Friday: opening reception starting at 5pm
- Saturday: conference tracks
- Saturday evening: social event
- Sunday morning: session ending at noon

Join over 200 other professional women and men focused on inspiring, engaging and advancing women in technology. Network, learn and share during the 2015 IEEE WIE Summit USA East at the Sheraton Philadelphia University on 6-8 November 2015.

Through a network of more than 525 affinity groups and 16,000 members around the world, IEEE Women in Engineering (WIE) directly transforms the lives of hundreds of thousands of young girls and women via pre-university outreach, technical seminars, humanitarian projects, networking events, and educational programs focused on encouraging self-realization through the core ideas of the IEEE WIE mission.

**Call for Participation**
- Topics: Innovation, Leadership, Empowerment
- Deadline 9 September
- Paper and non-paper submissions accepted
- Papers will be published in IEEE Xplore

**Career Fair**
- November 7, 1-5pm
- Conference partnerships also available

**Venue**
- Sheraton Philadelphia University
- 3549 Chestnut Street
- Special conference rate: USD $149/night
IEEE MIT Call for Papers, Posters and Lightning Talks
Submission Deadline: September 18, 2015
https://iee-r1-studentconference.myreviewroom.com

2015 IEEE MIT Undergraduate Research Technology Conference

Meet Innovation Technology
Sponsored by MIT IEEE Student Branch and IEEE Boston Section

MIT IEEE Student Branch believes that a new technical conference is needed for all the undergraduate students globally. So, we planned to inaugurate the first premier annual IEEE MIT Undergraduate Research Technology Conference. The conference will be hosted on MIT campus where the students can meet to present, discuss, and develop solutions to advance technology for humanity. It is an IEEE official conference that provides an opportunity for the undergraduates to publish papers of their school projects, researches, innovations, or case studies. Participants can attend a rich program with renowned speakers leading the keynote sessions, technical sessions, student design competition, exhibits, and exciting networking and social events. It is a great opportunity for the students to interact with the industry experts as well as their peers.

The conference theme is "Meet Innovation Technology (MIT)", and the four focus technical tracks are:

1. Energy, Renewable, and Sustainability
2. Humanity and Social Development
3. Communication and Connectivity
4. Computer and Information Technology

Authors may submit content in the form of a technical paper, poster, or lightning talk.

All submissions must be written in English. Paper submissions must not be longer than 4 pages. Minimum font size is 10 point, and single-spaced. Submissions may include figures, illustrations, and graphs. Abstract submission for poster and lightning talk will be limited to 500 words.

All submissions will be peers reviewed. Notification of acceptance or rejection will be sent via email.

Submission will be online, and the deadline is September 18, 2015. Notification of acceptance will be by October 9, 2015.

Conference Proceeding of all the accepted papers that have been presented at the conference will be published, and may include in the IEEE Xplore. Electronic media and online containing all accepted submissions will be distributed to the registered attendees.

To submit: https://iee-r1-studentconference.myreviewroom.com

Please visit the conference website for more information about the conference. For any inquiries, please email the conference chair, Miri Choi (miricho@mit.edu), or Soon Wan (amsoon@ieee.org)

http://ieescripts.mit.edu/conference

Massachusetts Institute of Technology
IEEE Boston Section
## HOW TO REACH THE 22 IEEE SECTIONS OF REGION 1

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  Section chair: James Henderson
- **Boston:** [http://www.ieeeboston.org/](http://www.ieeeboston.org/)  
  Section chair: Fausto Molinet
- **Maine:** [http://ewh.ieee.org/r1/maine/me_ieee.html](http://ewh.ieee.org/r1/maine/me_ieee.html)  
  Section chair: Richard "Dick" Wilkins
- **Providence:** [https://ewh.ieee.org/r1/providence/](https://ewh.ieee.org/r1/providence/)  
  Section chair: Cathy Ann Clark
- **Worcester County:** [http://users.rcn.com/ieeeworc/](http://users.rcn.com/ieeeworc/)  
  Section chair: Vern Gaw

### CENTRAL AREA (AREA CHAIR: BABAK IZADI, SENIOR MEMBER)

- **Green Mountain (Vermont):** [http://sites.ieee.org/gm/](http://sites.ieee.org/gm/)  
  Section chair: Jason Bates
- **Springfield:** [www.ieee.org/go/springfield](http://www.ieee.org/go/springfield)  
  Section chair: Neeraj Magotra
- **Berkshire:** [http://ewh.ieee.org/r1/berkshire/](http://ewh.ieee.org/r1/berkshire/)  
  Section chair: James McVeigh
- **Mohawk Valley:** [https://webinabox.vtools.ieee.org/wibp_home/index/R10021](https://webinabox.vtools.ieee.org/wibp_home/index/R10021)  
  Section chair: Guna Seetharaman
- **Mid-Hudson:** [https://webinabox.vtools.ieee.org/wibp_home/index/R10019](https://webinabox.vtools.ieee.org/wibp_home/index/R10019)  
  Section chair: Ron Geiger
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  Section chair: Greg Koch
- **Syracuse:** [https://ewh.ieee.org/r1/syracuse/](https://ewh.ieee.org/r1/syracuse/)  
  Section chair: Tim Horan
- **Binghamton:** [https://webinabox.vtools.ieee.org/wibp_home/index/R10003](https://webinabox.vtools.ieee.org/wibp_home/index/R10003)  
  Section chair: Dan Sniezek
- **Ithaca:** [http://www.ewh.ieee.org/r1/newsletter/IthacaHist.htm](http://www.ewh.ieee.org/r1/newsletter/IthacaHist.htm)  
  Section chair: Peter Doerschuk

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  Section chair: Neil Weisenfeld
- **Connecticut:** [http://www.ieeect.org/](http://www.ieeect.org/)  
  Section chair: Gary Felberbaum
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  Section chair: John F. Vodopa
- **New Jersey Coast:** [http://sites.ieee.org/r1/?s=New+Jersey+coast](http://sites.ieee.org/r1/?s=New+Jersey+coast)  
  Section chair: Ralph Wyndrum
  Section chair: Habib Ahson

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**THE END**