



New York Monitor

Advancing Technology for Humanity

A PUBLICATION OF THE IEEE NEW YORK SECTION

Published monthly except in July and August

September, 2016: vol. 63, No. 7



**2016 Outstanding Section Membership
Recruitment Performance**

New York Section

Congratulations to all volunteers of the NY Section

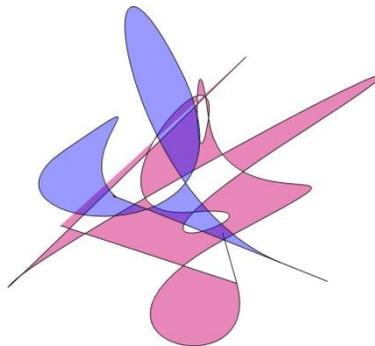
IEEE NY MONITOR

A PUBLICATION OF THE IEEE NEW YORK SECTION

EDITOR: AMITAVA DUTTA-ROY

PRINCIPAL OFFICERS OF THE IEEE NEW YORK SECTION FOR 2016:

Chair: Wilson Milian	Chair	
	VP: Chapter operations	Neil Weisenfeld
Charles Rubenstein	Vice chair, Section activities	
	Treasurer	Simon Odie
Sharene Williams	Secretary	



IEEE NY MONITOR, JUNE 2016

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Contribute to the Monitor

PARTICIPATE IN THE ACTIVITIES OF THE IEEE

QUICK DATE CHECKS FOR YOUR CALENDAR

Dates for the 2016 Executive Committee meetings at IEEE NY Section

~~10~~ January

~~10~~ February

~~9~~ March

~~13~~ April

~~11~~ May

~~8~~ June

No meetings during the months of July and August

~~14~~ September

12 October

9 November

14 December

Unless otherwise notified all ExComm meetings are scheduled for 12:30 pm at the ConEd Building, 4 Irving Place, New York. All members of the New York Section are invited to participate in the ExComm meetings.

However, for reasons of security, to attend such meetings you must give advance notice to the Section chair.

Upcoming TECHNICAL MEETINGS OF our INTEREST

(For further details on each event please see the individual notices at the end of this posting)

- **1-2 October, Saturday and Sunday, 10 am – 6pm:** MakerFaire DIY show at Queens Science Museum, Corona Park, New York. This is the largest show in the world organized by the organization. See flier at the end of the newsletter
- **4 October, Tuesday, IEEE Day, 4 pm :** at New York Institute of Technology (NYIT), Room 401, 21 61st Street Xing with Broadway), New York, NY 10023. Program starts at 4 pm with speakers from IEEE and NYIT staff. It ends at 7 pm with a session of networking and food at 6 pm. All are welcome. At the entrance you may ask for Jaideep Singh, Students' Advisor / Events Coordinator. **Please join us at NYIT and keep the spirit of IEEE Day going**
- **4 October, Tuesday, 6.30 pm – 7.30 pm :** Leo Engineering: Building, William Scala Room: Manhattan College, 4513 Manhattan College Pkwy, Riverdale, NY 10471: A presentation of the Broadcast Technology Society, NY Chapter: Broadcasting Embedded System Software Configuration by Dr Waleed Mohamed, software architect at IBM. For more information please see the flier at the end.
- **28 October, Friday, 5.30 pm – 7.45 pm** S-PAC/iSTEP Students' Conference at Room HS 119, Health Sciences Building, Long Island University Brooklyn Campus, 1 University Plaza, Brooklyn, NY 11201. Please see the flier at the end of this newsletter.

LOOKING FAR AHEAD

- **1-3 December, Thursday through Saturday:** Women in Engineering (WIE) Forum **on Inspiring and Empowering Women in Technology**, Boston, MA. For more information please write to 44griffin@comcast.net

IEEE Conferences of our interest in October, 2016

New York City area

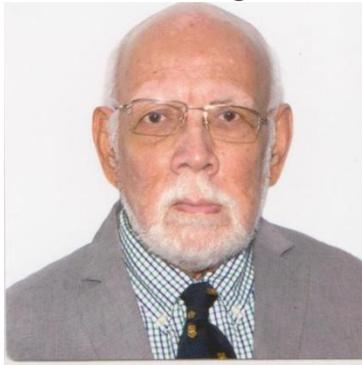
17 - 19 Oct 2016 [IEEE 12th International Conference on Wireless and Mobile Computing, Networking and Communications \(WiMob\)](#) Lebanese American University in New York (211 E 46th St); New York, NY, USA, IEEE Sponsor(s): Computer Society

20 - 22 Oct 2016: [IEEE 7th Annual Ubiquitous Computing, Electronics & Mobile Communication Conference \(UEMCON\)](#) Hotel near New York Area Airport (LGA, JFK or EWR), IEEE Sponsor(s): IEEE-USA, Region 1, NY Section

Bye, bye, summer! We begin this edition of the NY Monitor by congratulating our Section officers and all volunteers for their efforts to achieve our goals for enrolling new members and also for maintaining a high rate of retention of membership. This was judged from a global perspective. So, we must be doing things right! The cover image reveals our pride.

We are happy that during the summer months we could do much for disseminating information and creating ambiance for networking. We had diverse presentations organized by different chapters of New York Section and its Tappan Zee Subsection that were well attended by both IEEE members, professionals and the community around us. We also took part in the Region 1 Students' Conference held in April at Central Connecticut State University, New Britain, Conn. and the very first IEEE Future Leaders' Forum held in July at Tulane University, New Orleans, LA.

We now have good news to share. Several members of our Section have come forward to offer their volunteer services. The Section chair Wilson Milian has appointed Dr Cathy Chan as the chair of the Young Professionals (YP). She is with the firm of Exponent Failure Analysis in New York. Dr Ahmad Refaey Hussain of Manhattan College of Riverdale, NY is now the chair of the New York chapter of the IEEE Broadcast Technology Society (BTS). Chamara Johnson of Parsons Brinkerhoff, New York is interested in



volunteering for Women in Engineering (WIE) and Vehicular Technology Society's NY chapter. Zumma Khan of City College, New York is interested in volunteering for Power and Energy Society. Please let us give a warm welcome to the new faces in our Section.

Inside you will find an "eye witness" account of the Future Leaders Forum by Cathy Chen. You will also find a detailed report on the Students' Conference mentioned above. The report was submitted by Dr Charles Rubenstein, the coordinator of confer-

ences at the New York Section and the Region 1. We hope you will enjoy reading those reports.

In the coming weeks you will receive results of the IEEE elections. Notwithstanding those results, we have a lot to do here. Let's keep up with the momentum.

Next month we will post an article by Dr Vincenzo Piuri, the 2016 past VP of IEEE TAB, an IEEE Fellow and professor of CS at University of Milan, Italy.

Piuri is promoting some good ideas on global collaboration between different groups in IEEE for the benefit of the mankind. You will find those ideas sort of eye openers. You will also find a report on MakerFaire show in which we are taking part.

Good reading!

Amitava Dutta-Roy, PhD, IEEE Life Fellow.

INSPIRE. LEAD. CONNECT. ADAPT. SOLVE. EMPOWER.
An Inside Look at the Inaugural IEEE USA
Future Leaders Forum

As seen through the eyes of a Young Professional

Cathy Chen*



**Dr Vincent Cerf delivering the keynote address at the IEEE Future Leaders Forum
(me on the bottom left back to the camera)**

New Orleans, LA – From July 28-30, 2016, more than 285 of the IEEE-USA’s rising stars, young professionals (like me), industry leaders, one (co-) inventor of the internet, and student members gathered for the first ever IEEE USA’s Future Leaders Forum, hosted at Tulane University. The main themes of the conference, held as a series of TED-style talks, panel discussions, and labs over the course of two and a half days, were to inspire, solve, empower, adapt, lead, and connect. I experi-

enced all the prevailing themes of the conference during my three days in New Orleans, and in this report, I’d like to share with you some of those experiences, lessons learned, and thoughts on the future of the forum for future leaders.

After moving into my Tulane dorm room that was to be our accommodations for the following three nights led to some flashbacks to my

college years and we were all off to the French quarter for an opening reception.

Adapt and Connect

The forum kicked off with a cruise on the historic steam boat Natchez, which has been sailing the mighty Mississippi since 1975, with an engine built in 1925.

On the boat, in addition to being treated to amazing views of the Mississippi, the French quarter, and greater New Orleans, we were all split into groups for a little friendly competition. Named after famous engineers and scientists, groups were assigned to different video challenges.



The task assigned to the George Washington Gale Ferris Jr. (inventor of the Ferris wheel) group, that was ours, was to create a one-minute trailer for the next Marvel superhero, that would appeal to a new demographic. Luckily for us, we had a Disney Imagineer on our team, who happens to travel everywhere with video editing software and a computer! Three hours later, what started as a superhero dude who would appeal to farmers and a world experiencing severe crop shortages (to borrow part of the Interstellar storyline) became a movie trailer for the new Marvel superhero “Bluegrass girl!” complete with testimony, doubters, and a brilliant disguise.

We didn’t win, but the whole experience was a great exercise in adapting a motif we all knew (superhero movies) and twisting it to solve the assignment at hand. And, making her a girl, yea that was my idea...Girl Power!

Midway through the second day of the forum, the group was broken into smaller labs for some hands-on practice in, among other things, creativity, imagination, and leadership. I chose to attend the Creative Lab, led by Disney Imagineering. In a timeline-based Prezi presentation, which was already in and of itself one of the most creative things I’ve seen, the presenters talked about creativity and how best to harness it.

During the workshop, we were asked to talk with our neighbors about where they are most creative, and after, a quick exercise was performed, in which a Mickey Mouse beach ball was tossed around the room. When the ball was tossed to you, you were to shout out where you were most creative (my answer: lab, at 3 a.m., the day of a paper deadline), and passed the ball on.

In an effort to either confuse us or speed up the process (jury’s still out on that one), Mickey was soon joined by a Frozen and Goofy beach ball. After some initial confusion in which only one beach ball was being tossed at a time, I asked loudly, if we were to now move into a parallel execution of the task at hand. Evidently, this resonated with the participants, and pretty soon, all the beach balls were being thrown around concurrently, as designed.

Inspire and Solve

The opening speaker on Friday morning was Dr Vinton Cerf, who is credited as a co-inventor of the Internet; now a Google vice president, Chief Internet evangelist, and the 2004 Turing Award winner. Being able to

hear the advice of a principal Internet architect and an IEEE Fellow certainly caught the attention of this engineer, who spent the better part of the grad school working with optical interconnects.

In a talk entitled “Risk and Innovation,” Dr Cerf, in his signature three-piece suit, spoke of the early days of the “interwebs” as we have now come to call it. He emphasized the importance of youth, stating that we, as young professionals and students, were too young to know that “you can’t do that” and thus would and could achieve the impossible.

Dr Cerf also shared how Eric Schmidt (former CEO of Google and current Executive Chairman of Alphabet, Inc.) told him his work isn’t done yet. That only half the world is online, and therefore, Cerf could never retire.

I found it refreshing and inspiring to hear

“I’ve been told I can’t retire, because [I’m] only half done. Only 50 percent of the world is online. [I] have another 50 percent to go.”
- Dr. Vinton Cerf, co-inventor of the internet Chief Internet Evangelist and VP, Google

that even after all he has ac-

complished, Vint Cerf feels his work is still not done, and has the drive and motivation to get the other 50 percent of the world online as well. Dr Cerf certainly kicked off the conference and sent the audience into a buzz. His overall message was one of taking risks, failing, success, and above all else, patience!

Another speaker that resonated with the audience was John Werner, Vice President of Meta, and Founding Managing Director for Emerging Worlds SIG at MIT Media

Lab. His talk was centered on the rise and current culture of the MIT media lab, including collaborative spaces and cross-disciplinary research.

His keynote speech caused palpable excitement in the auditorium. As he was speaking to a roomful of millennials, he came with an interesting fact for the audience. During his talk, entitled “Millennials and Selfies” we learned that millennials, on average, spend approximately 54 hours a year creating selfies, which will amount to about 25,700 selfies in a lifetime.

He encouraged us to turn the camera around every so often, and he shared a number of his photographs from throughout the years, stating that he always photographs everything, because you’ll never know when inspiration will hit. As an avid amateur photographer, I loved that he actually did things with his photos, like framing them for his office, and using them in his talks, and was taken aback by how stunning some of them were. Though, truth be told, I probably average closer to 2 selfies a day.

Empower and Lead

The speaker of the next session that spoke to



The steam boat Natchez (left), the author and Dr. Charles Rubenstein, IEEE NY Section Vice-Chair (right)

me on a personal level was self-described “re-

covering perfectionist” Nancy Martin, a Manager in Technology Leadership Development at GE Global Research. Ms. Martin’s message was that it is *okay* to fail, saying that in the absence of permission to make mistakes, we leave ourselves with only one option: to be perfect.

She then identified herself as a recovering perfectionist, a term that I profoundly related to. So often in our lives we try to be so perfect that we forget that it is alright to fail, she said, and in that regard, it is necessary, to be allowed to fail, and to make mistakes.

Ms. Martin’s personal anecdotes about missteps in her speaking and management career and practicing to be happy and practicing to

“I’d like to see a resume of failures rather than one of achievement; we learn a lot more by failing than by succeeding.”

- Dr. Chris Washburne, trombonist, educator

Associate Professor, Columbia University

be present really enthralled me. It was refreshing to be told from someone that has “made it” that she still fails, and moreover, that it is okay. Success is not about getting it right the first time; it is about getting it right, period.

Her message was echoed in the last talk of the forum, which as I tweeted, “was a new one.” The keynote speech was offered by Dr Chris Washburne, an associate professor of music, and the founding director of the Louis Armstrong Jazz Performance Program at my alma mater, Columbia University, in New York City. As a former practice-everyday-until-you-get-it-right-pianist, I found it particularly interesting Dr Washburne’s statement that his jazz band doesn’t practice. Jazz originated in the United States from the creative minds and

souls of freed slaves, and, as a result, jazz performances are completely original, the band feeds off the audience (and the other band members) and adjusts the music accordingly. Most important, a note can never be wrong, because you can adapt the next note you play to make it right.

Dr. Washburne brought along one of his bands, SYOTOS (an acronym for See You On The Other Side), and through a performance that involved some talking, some jazz performance, and no slides, delivered a message also touching upon the importance of learning from failures. He told the audience that he’d actually like to see a resume of failures.

We learn more from our failures, he said, often more than from our successes. It turns out that jazz musicians have a few things to teach

us, the engineers. Later that evening, I attended my first New Orleans jazz concert, when SYOTOS made their Frenchmen Street, New Orleans debut, at Snug Harbor Jazz Bistro.

Next Steps

IEEE USA will likely follow up this year’s Future Leaders Forum with a workshop in 2017



The author taking a selfie on Bourbon Street

(do you know where? and a second forum in 2018 (I’d like to formally propose Hawaii as

the location). I hope to be involved in the planning, and I hope to see you there!

*Cathy Chen is with Exponent Failure Analysis Associates, multidisciplinary engineering and scientific consulting firm specialized in solving engineering, regulatory and business issues for its clients. Dr Chen earned a BS in electrical and computer engineering from Cornell University and MS, MPhil and PhD degrees from Columbia University. Dr.



Chen has just been appointed the chair of Young Professionals (YP) at the IEEE New York Section. Chen thanks the IEEE for its generous financial support for attending the the Forum

She can be contacted at:



2016·IEEE·Region·1·Student·Conference·¶

Region 1 Student Activities Chair Report – June 2016

Charles Rubenstein* with photographs by Soon Wan**

1. 2016 Region 1 Student Conference (StuCon2016)

The 2016 Region 1 Student Conference, held at the Central Connecticut State University (CCSU) 16-17 April was a grand success! This largest gathering of students from Region 1 Student Branches featured:

- 214 Registrants (168 Students from 29 R1 Schools; 30 Volunteers and Speakers, and 16 No Shows)
- 64 MicroMouse Participants (20 MicroMouse Teams from 11 colleges)
- 6 Student Paper Contest Entries
- 7 Ethics Competition Entries
- 6 T-Shirt Design Participants

Thanks go out to the *tremendous* efforts of Soon Wan who coordinated all of our student competitions in three tracks on the morning of Saturday, 16 April. The food and facilities and the rest of the local arrangements at Central Connecticut State University were made by StuCon2016 Co-Chair Dr Haoyu Wang who made sure that everything behaved seamlessly and effortlessly, under control at all times such that every participant had a great experience.

We were honored to have many IEEE leaders at the event including IEEE-USA President Peter Eckstein, Region 1 Director Ron Tabroff and Region 1 Director-Elect Dr Babak Beheshti, as well as Region 2 Director-Elect Dr Kate Duncan and many of our own Region 1 Board members as judges and coordinators. The IEEE Connecticut Section, under the leadership of its chair Peter Kootsookos, helped with the participation of volunteers from the local Student Branch and also with financial support.

We are indebted to our donors and patrons for making StuCon2016 so successful. They included IEEE-USA, CCSU SEST Dean Dr. Faris Malhas, Smokie Robotics, Inc., IEEE CT Section & RAS Chapter, IEEE Membership Development, IEEE MGA Student Activities, IEEE Standards Association, IEEE University Partnership Program (UPP), and IEEE WIE (Women in Engineering) who also provided

funds for meals and breaks, the Robotics Workshops, and materials for giveaways.

In addition to StuCon2016 co-chair Haoyu Wang and our competitions coordinators (Soon Wan of MicroMouse Competition, Rob Vice of Student Prize Paper Contest, and Bruce Hecht of Ethics Competition), Student Volunteers Chair David Broderick (CCSU), Industry Chair Biao Zhang (ABB), CCSU Venue Co-chairs Ravindra Thamma and Hassan Shibly (CCSU), and SAC Website Webmaster Abdelrahman Honsy (UConn) all contributed to making the event successful in so many ‘invisible’ ways. We are delighted that ten students from local Connecticut colleges: Zacaria Daignault, Paul Blanchet, Benjamin Midyette, Dylan Marinelli, Adrian Felczak, Kyle Carissimi, Joey Martell, Shiblee Rahman, Mariam Avagyan and Mieyshayla Shonnae volunteered to assist us in StuCon.

StuCon2016 began on Friday evening with a pre-conference meeting of the key volunteers and speakers while the Region’s Young Professional (YP) Representative Aisha Yousuf conducted a Resume Workshop assisted by several of the next day’s judges and senior Region leadership. As has been the tradition over the past few years, there was also a YP-sponsored Ice Cream Party! (*It has been suggested that Soon “will work for Ice Cream” – and he does, he does!*)

The Saturday morning 16 April StuCon program included student competitions in three tracks. These were our Student Prize Paper Contest (Rob Vice, Coordinator), our Ethics Competition (Bruce Hecht, Coordinator) and - of course - our MicroMouse Competition (Soon 'MicroMouse' Wan – Coordinator).

This year's Ethics Competition had seven (7) student teams from five colleges - Fairleigh Dickinson University; New Jersey Institute of Technology; Stevens Institute of Technology; Stony Brook University (SUNY) and the University of Maine, under the watchful eyes of Judges Bruce Hecht, Pete Eckstein and Charles Robinson, presented and defended a case analysis on "Ethical Concerns on Genetically Modified Food" using the IEEE Code of Ethics .

Second place in the Ethics Competition went to Stevens Institute of Technology and first place went to Fairleigh Dickinson University.

The Region 1 Student Paper Contest judges reviewed written papers and oral presentations related to engineering, technology, management, or societal aspects of subjects relevant to the IEEE. Our judges were Rob Vice (Chair), Aisha Yousuf, Daniel Snizek and Ronald Brown reviewed six (6) Student Paper Contest entries from Massachusetts Institute of Technology (MIT), New Jersey Institute of Technology (NJIT), Fairleigh

Dickinson University (FDU) and Western New England University (WNEU) before awarding three prizes.

Third place went to Paul Rose of Western New England University (WNEU) for his paper on "Next Generation Digital Airfield Lighting System" with second place going to Khizar Qureshi and Robert Lagner of Massachusetts Institute of Technology (MIT) for their paper "On an Empirical Analysis of the Kidney Allocation System" and first place was earned by Francis Goffredo of Fairleigh Dickinson University (FDU) for his paper on "Electronic Countermeasures: Radio Signal Jammer Design."

Taking up the largest space during StuCon and with the largest number of participants (*other than for meals ☺*) was the Region 1 MicroMouse Competition. The more than 64 Participants in 20 MicroMouse Teams from 11 colleges built independently controlled robots that tried to travel through a maze in the shortest possible time. These devices that melded software and hardware and used complex mathematical routing algorithms were as impressive as they were exciting. They kept our Judges: Soon Wan (Chair), Anthony Wan, Bob Pellegrino, Mariam Avagyan, Laszlo Pap and assistants including Kate Duncan (Region 2 Director-Elect) busy all morning.

The eleven colleges and their MicroMice teams were: DeVry University North Brunswick (*Onycho and PacRat*), Stevens Institute of Technology (*Attila*), New Jersey Institute of Technology (*Centaurus Megazord and Micromouse*), Union College (*Dutchbot*), Central Connecticut State University (*George and LoadingÖ and Toast*), University of Buffalo (*Ladybugs and Megamouse II and Otis and RatPack*), Northeastern University (*Micromouse and Winslow*), Fairleigh Dickinson University Metropolitan (*Noodle*), Roger Williams University (*Swiss*), SUNY New Paltz (*Unpredictable Algorithms*) and Stony Brook University (*WolfieMouse*).

There were two Honorable Mentions, one to the University of Buffalo *RatPack* for the *Compact Mouse Closest to the Center*, and the other to the Fairleigh Dickinson University Metropolitan *Noodle* for the *Largest Mouse*. Fourth place, *Second Closest to the Goal*, went to the DeVry University North Brunswick *PacRat*. Third place *Closest to the Goal*, went to the University of Buffalo *RatPack*. Second place went to the Union College *Dutchbot* for a time of 2 minutes and 53 seconds. The First Place winner was the University of Buffalo *Megamouse II* for a maze solving time of merely 52 seconds!

The T-Shirt Contest was held during the day under the coordination of local student vol-

unteers Mariam Avagyan and Mieyshayla Shonnae. Attendees reviewed the work of Student Branches from DeVry University - New Brunswick, NJ; Fairleigh Dickenson University, NJ; Roger Williams University, RI; New Jersey Institute of Technology, NJ; Stevens Institute, NJ; and the University of Maine, Maine before selecting DeVry University - New Brunswick, NJ as the first prize T-Shirt for StuCon 2016.

Saturday afternoon attendees were in for a special treat as there were three tracks available for their participation. Connecticut Section Robotics and Automation Chapter Chair Biao Zhang and CCSU faculty and StuCon Co-Chair Haoyu Wang coordinated a special Robotics Panel Session entitled "*Open Robot Software and Hardware: Collaborate, Connect and Advance*" featuring guest speakers Grayson Randall and Minas Liarokapis.

Track 2 was coordinated by Director-Elect Babak Beheshti and dedicated to Student Branch Leadership Training. Part 1 included "*IEEE Builds Better Young Professionals*" featuring guest speakers Kristen MacCartney and Shareyna Scott, while Part 2 featured two presentations, "*Essentials of Branch Leadership*" by Babak Beheshti and "*An Overview of SPAC/SPAx*" by Bala Prasanna.

The third track, Soon Wan's "iTryRobotics Workshop" was attended by children in

grades 3 to 7 who were accompanied by their parents and were treated to hands-on robotics software and hardware activities. On Sunday Soon conducted a Robotics Workshop for those interested in honing their MicroMouse skills.

Saturday night was the Awards Banquet where all the aforementioned awards were made in the Auditorium before going to a peaceful winner's dinner.

Some of the conference photos have been dropped at the DropBox by Soon:
<https://www.dropbox.com/sh/ofh3v256vbotioj/AACvN87gsxoLem7RTdBJA0gea?dl=0>

So was StuCon 2016 successful you ask? You bet it was! We had THREE (3) Student Branches that expressed interest in hosting future Student Conference! The request for proposals went out and it is hoped that a decision on the StuCon 2017 dates and venue will be announced at the Region 1 Board of Governors Meeting in August.

2. MGA Student Branch Program 2016 Quarter 1 Newsletter

The IEEE Student Branch Program Quarter 1 Newsletter "Student Branch Spotlight" highlighted the efforts of our own Region 1 Northeastern University Student Branch.

3. Updates to Section Student Activities Chair listings

Please let RSAC Charles Rubenstein <c.rubenstein@ieee.org> know who your current Section Student Activities Chair is. And please ask your Section SAC Chair to keep me aware of changes in any of the Student Branch Counselors or leadership.

4. Region 1 Student Representative (RSR)

We have been fortunate this past year to have the services of Nikhil Shenoy of Rutgers University as our RSR. Nikhil was instrumental in making it possible for IEEE to provide nearly 25 volunteers for the World Maker Faire New York 2015 "Learn to Solder" Booth as well as for the IEEE Booth at the Faire – our fourth annual participation! Congratulations and Good Luck goes out to him as he graduated and will be taking employment in the greater NY area. Kayla Lo of NYIT is our acting RSR this summer and will represent the region at the MGA Student Activities committee Meetings in Chicago this July when I will be on vacation. She will present a report on the MGA meeting to Director Tabroff at the Annual Region 1 Board of Governors Meeting on August 6.

5. Public Visibility Project: IEEE Booth at World Maker Faire New York – NY Hall of Science

Region 1 has annually coordinated an IEEE Booth at the World Maker Faire New York since 2012. This year, our fifth, we will feature the new IEEE-USA Booth and are working again with the Educational Activities Board, IEEE Membership, and others to bring a greater awareness IEEE to the tens of thousands of Maker Faire attendees. As we did last year, we are expecting to not only provide enough volunteers to man the Booth over the 1-2 October weekend, but we also will be looking for volunteers to work with children at the 'Learn to Solder' booth where they will solder blinking LED Badges.

6. S-PAC and iSTEP Presentations

Where an S-PAC is a student member organized event, we have been working to provide the best of an S-PAC – but run by local section volunteers – to student branches in Region 1 through the iSTEP program since 2010. Bob Pellegrino has been the most active

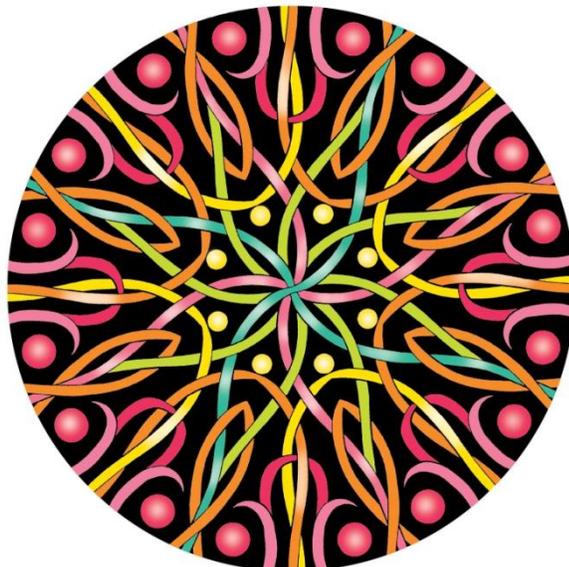
recently in bringing iSTEP programs to student branches in the New York section. If you are interested in having either an S-PAC or an iSTEP, please contact me.

If you have suggestions for improving the activities or benefits for our Student Members please don't hesitate to reach out to me.

=====

*Dr Charles Rubenstein is the is the chair of Students' Activities at IEEE Region 1 His email address: <c.rubenstein@ieee.org>

**Dr SoonWan, the chair of Membership Development at R 1 has kindly given us the permission to post the photographs he took of the Micromouse competition. The Monitor thanks both Charles and Soon for their cooperation.





2016 IEEE Region 1 Student Conference

Re-



Region 1 Micromouse Competition Participants and Mices (20 Teams from 11 Schools)



Children 8 to 12 years old learnt the world of robotics by building and program a robot using Lego Mindstorm Education Kit (Workshop sponsored by IEEE-USA)



Micromouse Workshop: To learn about designing and building a micromouse for next year competition



Maker Faire



Call for Volunteers

IEEE Booth

Sponsored by IEEE-USA, IEEE Region 1, EAB and the IET



World Maker Faire New York 2016

1 – 2 October 2016

at the New York Hall of Science – Queens, NY

<http://www.nysci.org>

You provide: *four hours of volunteering*

You get: *A one-day pass to the Faire + Parking*

(Two @ four hour shifts give you a Weekend pass + Parking!)

Volunteer! - contact Charles Rubenstein

<c.rubenstein@ieee.org>

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MakerFaire Map

IEEE 2016 DAY



IEEE Day - 4 October 2016

Join us in celebrating the 7th anniversary of IEEE Day, a day commemorating the first time IEEE members gathered to share their technical ideas in 1884.

Engaging Our Members Worldwide

For more details, visit ieeeday.org

Join our IEEE Day Community



Broadcasting Embedded Systems Software Configuration

Industrial Speaker:

Abstract Embedded Systems Devices have become more common in our day to day living routines, it varies from smart phones to a control panel of a nuclear planet. The technological race has been advancing at an increasing rate- Moore's Law states that the number of computer hardware able to fit within a device, will double every two years. This acceleration allows introducing a world that is full of Embedded Systems devices that have different usages and types. The computing devices allow homes, schools, hospitals, and businesses to flourish using the ability to store and organize information as well as having them do certain tasks such as managing bills and attendance. The Control panels control building systems such as electricity, HVAC, CCTV as well as doors and light controls. These devices are making life for the human race more comfortable, create easier means of communication, and allows automation of multiple tasks in human life. This lecture will cover the different approaches to configure these Embedded Systems devices and Broadcasting this Software Configuration over a communication networks.

Bio Waleed Mohamed, Ph.D is a Software Telecommunications professional with more than 10 years of industry experience. Currently, Dr. Mohamed is a SW Architect at IBM - Watson Health, where he focuses on health Imaging and he is leading the software development in order to help the enhancement of image capturing and processing for ophthalmologists. Prior to his current role at IBM, Dr Mohamed has worked at the Research and Development department at Mircom Group of companies as a Team Lead and SR. Software Architect, where he lead the development of multiple nesh technology projects in the areas of 3D Monitoring, Fire Alarm Systems, Security systems, Mass notification systems, IOT and home automation. In 2013, his pioneer monitoring software (OpenGN) won the first place Addison Award for smart system. His research interests span Smart System, 3D graphics and animation, Medical images, and IOT (internet of things). Much of his work has been on improving the understanding, design, and performance of smart systems, monitoring and automation systems, mainly through the application of 3D graphics, algorithms, and visualization. Dr. Mohamed graduated from the Cairo University, with a bachelor's and Master degree in Information Technology, in 2001 and 2004, respectively. He finished his Ph.D. studies at Concordia University, Montreal, Canada in 2011 and he is the author and co-author in a large number of journal and conference papers. In addition to his activities as a reviewer in a number of IEEE conferences and journals.



When October 4th, 2016 at 6:30pm – 7:30pm

Where Manhattan College, Leo Engineering Building, William Scala Room

Organizer: IEEE Broadcast Technology Society Chapter, New York Section.

For more information please contact: Dr. Ahmed Refaev Hussein, Ahmed.hussein@manhattan.edu



IEEE

Leveraging Technology

For a Better Tomorrow

2016 IEEE NY Section S-PAC/iSTEP

Stay Current with Technology

Grow Personally and Professionally

Enable and Empower Your Career

Benefit from the World's Leading Technical Professional Organization

S-PAC/iSTEP Student-Conference

Student-Young Professional-IEEE Mentorship
Connecting Students with Industry Professionals and IEEE Leaders

The poster features a group photo of professionals, a photo of graduates, and a small S-PAC/iSTEP logo with an arrow pointing to the group photo.

Co-sponsors: IEEE Region 1, IEEE New York Section, The IEEE Student Branch at LIU-Brooklyn, The IEEE Student Branch at City Tech

Friday, October 28, 2016

Time: 5:30pm – 7:45pm

Location: Long Island University, Brooklyn Campus, NY, Health Sciences Building, Room: HS 119

1 University Plaza, Brooklyn, NY 11201-5372

Directions: <http://www.liu.edu/Brooklyn/About/Visit/Directions.aspx>

Whether it is global networking, professional development, or access to the world's most advanced technical innovations, IEEE offers a wide spectrum of benefits.

The **Student Professional Awareness Conference (S-PAC)** provides students, industry professionals, and IEEE leaders the opportunity to share career experiences at one venue.

- ❖ Learn how IEEE can shape your future, and provide career development tools to help you succeed.
- ❖ Attend the IEEE Region 1 and NY Section co-sponsored S-PAC event and glean wisdom from local industry and IEEE leaders from presentations and an industry panel session where they can help you navigate through the professional world to realize your aspirations.

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THIS IS THE END OF THIS MONTH'S NY MONITOR

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