New York Monitor

Advancing Technology for Humanity

A PUBLICATION OF THE IEEE NEW YORK SECTION

Published monthly except in July and August

FEBRUARY 2017 VOL. 63 NO. 2

Trinity Regional School, East Northport, Long Island, NY
Winner of 2017 NY Regional Future City competition
Jackson Kobylarcz, Little Smutny and Andrew McCollum

IEEE NEW YORK SECTION

Principal Officers 2017

Chair: Wilson Milian

Vice chair (Chapter Operations: Robert Pellegrino

Vice chair (Section Activities): Charles Rubenstein

Treasurer: Mohammad Farzad Haghi

Secretary : Thomas Villani

Editor: Amitava Dutta-Roy

We strive to advance technology for the benefit of humanity

Currently, the New York Section of IEEE comprises of the following active Chapters of the IEEE Societies:

- Broadcast Technology Society
- Computational Intelligence Society
- Computer Society
- Communications Society
- Technology Management Society
- Engineering in Medicine and Biology Society
- Instrumentation and Measurement Society
- Power and Energy Society
- Industrial Applications Society
- Solid State Circuits/Electron Devices Societies
- Systems, Man and Cybernetics Society
- Vehicular Technology Society

AND

The following Affinity Groups as defined by IEEE

- Consultants' Network
- Life Members
- Women in Engineering
- Young Professionals

FROM THE KEYBOARD OF THE EDITOR

This edition if the newsletter has been very tardy to be posted online. There are two reasons for this: the firs is my own health issues that slowed me down considerably. The second is that we did not get the critical mass of information that would be worthy our newsletter. However, now that we have reached that critical mass we publish the news and views and the calendar of the technical events in NYC and vicinity without any qualms. You will find an extensive report on Engineers Week celebrated by the Metropolitan Engineering Societies Council (New York City) and the Future City competition that has become a traditional even during the Engineers week. We hope that you will enjoy reading this eiditon of the NY Monitor.

CONTENTS

Contribute to the Monitor

QUICK DATE CHECKS FOR YOUR CALENDAR

Presumed dates for the 2017 Executive Committee meetings at IEEE NY Section (unless otherwise notified in advance, always held on the second Wednesday of the month)

~~11 January~~

~~8 February~~

8 March

12 April

No meeting in May due to Award Dinner Dance event

14 June

No meetings during the months of July and August

13 September

11 October

8 November

13 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 controlled by ConEd, the owner of the vanue, all members desirous of attending any ExComm meeting must notify the Section chair. Thank you for your understanding

TECHNICAL MEETINGS OF OUR INTEREST IN NYC

28 March, 2017, Tuesday: 5pm (refreshment and networking) & 5.30pm-7pm (presentation): IEEE Power &Energy Society, Industrial Applications Society, and Life Members' Affinity Group: **Power Quality Metering Basics** by Matthew Strong (Siemens: Coned Building, 4 Irving Place (X with E 14 Street, one block east of Union Square), New York. (Please see flier at the end and contact Arnold Wong.)

31 March, 2017, Friday: 6pm-8pm, a presentation of the IEEE Systems, Man and Cybernetics Society, and Education Society: **Net Neutrality** by Dr. Vishal Misra, Professor of Electrical Engineering and Computer Science at Columbia University, New York, Long Island University's Long Island Campus, Room HS 119. (Please see flier at the end and contact Ping-Tsai Chung: pchung@liu.edu). Directions: http://www.liu.edu/Brooklyn/About/Visit/Directions.aspx

31 March, 2017, Friday: 2pm-3pm: Columbia University, Electrical Engineering and Computer Science Department will host Dr. Dimitrios Sounas of the University of Texas at Austin to speak on Electromagnetics for Modern Communications Systems, CEPSR Room 1012 at the university, Morningside Campus. For more information please contact Mingoo Seok, 212 854 1701. (Flier is attached at the end.)

2 April, 2017, Saturday, whole day: Hudson Valley Engineering Expo. The Expo is sponsored by the Westchester County Joint Engineering Societies Council and is supported by a host of colleges, universities, technical societies and engineering companies. The Expo provides a means of encouraging middle & high school students to learn and explore engineering careers. For more information please contact Robert Pellegrino of the IEEE NY Section and its Tappan Zee Subsection: robert.m.pellegrino@gmail.com.

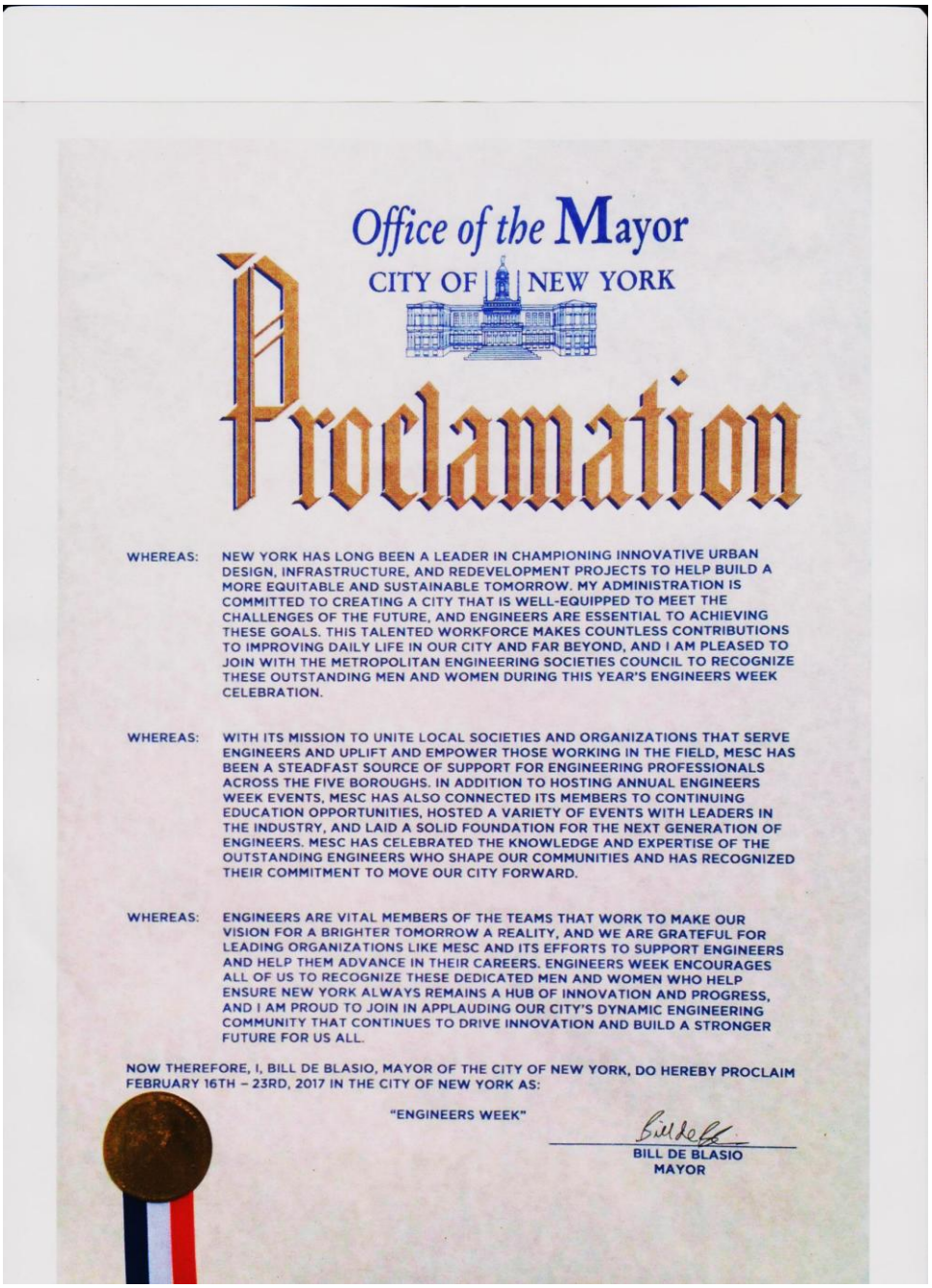
7-9 April, 2017, Friday through Sunday: Annual IEEE Region 1 Students' Conference at University of Buffalo (SUNY), 208 Davis Hall, Buffalo, NY 14260. For more information: Charles Rubenstein at c.rubenstein@ieee.org

6 May, 2017, Saturday: 6pm at Midtown Hilton Hotel, Avenue of the Americas (x53rd Street), New York: Annual Award Dance & Dinner (ADD) of the New York Section where the new IEEE Fellows and awardees will be honored. Please see the invitation letter and the RSVP form toward the end of this newsletter p. 17). We look forward to your company (and of your guests) at the annual event of camaraderie.

7-9 April, 2017, Friday through Sunday: Annual IEEE Region 1 Students' Conference at University of Buffalo (SUNY), 208 Davis Hall, Buffalo, NY 14260. For more information: Charles Rubenstein at c.rubenstein@ieee.org

9 May 2017, Tuesday through 3 November ,2017, Friday: "Drones: Is the Sky the Limit?" exhibition at the Intrepid Sea, Air & Space Museum, New York Please see our insert below. Mor information will be available in the next edition of the NY Monitor.

12 May, 2017, Friday: 6pm-8pm, a presentation of the IEEE Systems, Man and Cybernetics Society, and Education Society: From Machine Learning to Deep Learning: How Artificial Intelligence is Changing the World by Dr. Rensheng Wang New York, Long Island University's Long Island Campus, Room HS 119. (Please see flier at the end and contact Ping-Tsai Chung: pchung@liu.edu). Directions: http://www.liu.edu/Brooklyn/About/Visit/Directions.aspx



Office of the Mayor

CITY OF NEW YORK

Proclamation

WHEREAS: NEW YORK HAS LONG BEEN A LEADER IN CHAMPIONING INNOVATIVE URBAN DESIGN, INFRASTRUCTURE, AND REDEVELOPMENT PROJECTS TO HELP BUILD A MORE EQUITABLE AND SUSTAINABLE TOMORROW. MY ADMINISTRATION IS COMMITTED TO CREATING A CITY THAT IS WELL-EQUIPPED TO MEET THE CHALLENGES OF THE FUTURE, AND ENGINEERS ARE ESSENTIAL TO ACHIEVING THESE GOALS. THIS TALENTED WORKFORCE MAKES COUNTLESS CONTRIBUTIONS TO IMPROVING DAILY LIFE IN OUR CITY AND FAR BEYOND, AND I AM PLEASED TO JOIN WITH THE METROPOLITAN ENGINEERING SOCIETIES COUNCIL TO RECOGNIZE THESE OUTSTANDING MEN AND WOMEN DURING THIS YEAR'S ENGINEERS WEEK CELEBRATION.

WHEREAS: WITH ITS MISSION TO UNITE LOCAL SOCIETIES AND ORGANIZATIONS THAT SERVE ENGINEERS AND UPLIFT AND EMPOWER THOSE WORKING IN THE FIELD, MESC HAS BEEN A STEADFAST SOURCE OF SUPPORT FOR ENGINEERING PROFESSIONALS ACROSS THE FIVE BOROUGHS. IN ADDITION TO HOSTING ANNUAL ENGINEERS WEEK EVENTS, MESC HAS ALSO CONNECTED ITS MEMBERS TO CONTINUING EDUCATION OPPORTUNITIES, HOSTED A VARIETY OF EVENTS WITH LEADERS IN THE INDUSTRY, AND LAID A SOLID FOUNDATION FOR THE NEXT GENERATION OF ENGINEERS. MESC HAS CELEBRATED THE KNOWLEDGE AND EXPERTISE OF THE OUTSTANDING ENGINEERS WHO SHAPE OUR COMMUNITIES AND HAS RECOGNIZED THEIR COMMITMENT TO MOVE OUR CITY FORWARD.

WHEREAS: ENGINEERS ARE VITAL MEMBERS OF THE TEAMS THAT WORK TO MAKE OUR VISION FOR A BRIGHTER TOMORROW A REALITY, AND WE ARE GRATEFUL FOR LEADING ORGANIZATIONS LIKE MESC AND ITS EFFORTS TO SUPPORT ENGINEERS AND HELP THEM ADVANCE IN THEIR CAREERS. ENGINEERS WEEK ENCOURAGES ALL OF US TO RECOGNIZE THESE DEDICATED MEN AND WOMEN WHO HELP ENSURE NEW YORK ALWAYS REMAINS A HUB OF INNOVATION AND PROGRESS, AND I AM PROUD TO JOIN IN APPLAUDING OUR CITY'S DYNAMIC ENGINEERING COMMUNITY THAT CONTINUES TO DRIVE INNOVATION AND BUILD A STRONGER FUTURE FOR US ALL.

NOW THEREFORE, I, BILL DE BLASIO, MAYOR OF THE CITY OF NEW YORK, DO HEREBY PROCLAIM FEBRUARY 16TH – 23RD, 2017 IN THE CITY OF NEW YORK AS:

"ENGINEERS WEEK"

BILL DE BLASIO
MAYOR

Proclamation signed by New York City Mayor Bill Blasio and sent to the NYC MESC to honor the Engineers Week

ENGINEERS WEEK AT NY MESC

- American Engineering Alliance
- American Institute of Aeronautics and Astronautics
- American Institute of Chemical Engineering
- American Institute Nuclear Society
- American Society of Civil Engineers
- American Society of Energy Engineers
- American Society of Heating, Refrigeration and Air Conditioning Engineering
- American Society of Mechanical Engineers
- American Society of Plumbing Engineers
- American Society of Safety Engineers
- Association of Facilities Engineering
- Association for the Advancement of Cost Engineering
- Association of Energy Engineers
- Illuminating Engineering Society
- Institute of Civil Engineers
- Institute of Electrical and Electronics Engineers
- Institute of Industrial Engineers
- Municipal Engineers of the City of New York
- National Association of Corrosion Engineers
- New York Academy of Sciences
- New York State Society of Professional Engineers
- Society of American Military Engineers
- Society of Automotive Engineers
- Society of Indo-American Engineering and Architects
- Society of Women Engineers

Members of the New York City's Metropolitan Engineering Societies Council

SIXTY

six years ago National Society of Professional Engineers of this country declared that one week during the month of February would be observed as Engineers Week. The purpose of this proclamation was to honor the engineering profession and to raise the public awareness of the invaluable services the engineers rendered to this nation. Since then the Eweek, as it is known now, has been observed every year by the engineering societies all over the country. This year the EWeek was celebrated in New York on 16 February by the city's Metropolitan Engineering Societies Council (MESC) in the offices of District Council 37 (AFSCME AFL-CIO) HQ at 125 Barclay Street, New York. The 2017 MESC chairman Wasyl Kinach, PE opened the ceremony with a welcome speech with a brief survey of the (joint) council that comprises of 26 professional associations of engineers in New York City that cover of almost all conceivable professionals in engineering and technology. Chairman Kinach called for more cooperation between the engineers and their associations, and more mentoring for the younger generations of engineers. He said that only with such cooperation we can uphold the prestige the engineers deserve from the society and assert our collective professional rights. Please see http://www.mescnyc.org/ for more info on MESC. It is now a tradition that every year the MESC receives a certificate of proclamation on the EWeek. This year has not been an exception and the MESC received the well sought proclamation signed by mayor Bill Blasio (see the picture above).

The keynote speaker Timothy Gianfrancesco, PE, vice president & deputy program executive of MTA Capital Construction Company was introduced by Gregory Homatos, PE, an official of the MESC. Mr. Gianfrancesco has been closely involved with the construction of the Second Avenue line of NYC's subway system. Thus, we heard about the "Engineering Challenges of the Second Avenue Subway Construction" straight from the horse's mouth. As to myself, a lay person in the world of *subway engineering*, I much appreciated some of the figures the speaker mentioned. For example, I did not

know (how many of the NYC subway users know?) that New York's transit system (subway and buses) carries approximately 2.4 billion passengers (more than 7 million every weekday)? Did we know that the MTA's capital investment program (2015-2019) has a budget that is significant when compared even with the US GDP (2016)? It was not only the money and engineering that had to be considered but also the impact of the subway extension had on the local business, traffic, landscaping, appearance (both inside and outside the stations), aesthetics and customer satisfaction. It is a huge project and during the construction period thousands of residents along the Second Avenue have been upset with road closures, noise and dust. There are yet cost run-ups and political infighting. The engineering team must have the skill to navigate through the maze of these problems besides knowing only good engineering. Public engineering is not a simple act of translating a design into reality. It means much more. So far, the Second Avenue line has successfully completed only its first phase. The work will continue to extend the line to 125th Street. We congratulate the MTA engineers for achieving this extraordinary feat.

It is tempting to compare some figures on London Underground or Tube, as it is known popularly. Opened in 1863, the Tube comprises of approximately 414 miles of track (NYC figure: 562) and it carries 1.34 billion passengers annually (NYC figure: 2.4 billion). While a student in London in the nineteen fifties, I remember the rush we used to be after our Saturday parties to catch a Tube that closed at midnight (it still does). Thanks to MTA, we don't have similar problems here ☺

Salvatore Galletta, Peter Kontogiannis and Wasyl Kinach (Chair, MESC)

Gregory Homatas

Timothy Gianfrancesco, the Keynote speaker

The photographs and the names provided by Jagtar S. Khinda and Gregory Homatas respectively

L to R: Costas Lymberis, Garry Hillenbrand, April Berkol, Salvatore Galletta, Timothy Gian Francesco, Gregory Homatas, Wasyl Kinach, David Weiss (NY Section rep) * and Peter Kontogiannis

MTA New York City Transit at a glance: Subways in four boroughs, buses and paratransit in five boroughs	
2016 Operating budget	$10. billion
Annual ridership	2,426,577,685
Average weekday passengers	7,763,805
Subway lines	24
Bus routes	233
Subway cars	6,407
Buses	4,451
Track miles	662
Bus route miles	2,057
Subway stations	469
Employees	47,880
Source: MTA, based on data available on 31 December, 2016	

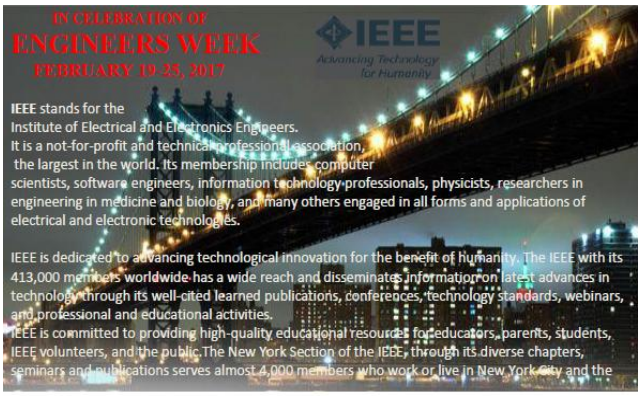
More information on MTA operations are available from:

http://web.mta.info/capital/pdf/MTA_15-19_Capital_Plan_Board_WEB_Approved_v2.pdf and http://web.mta.info/mta/network.htm

---

ENGINEERS WEEK SPONSORED BY IEEE NY SECTION

We placed the following advertisement in the Web site Spectator of Columbia University



FUTURE CITY COMPETITION (2017)

FOR THE YOUNG DURING THE ENGINEERS WEEK

The Future City competition, held annually, is designed to motivate 6th, 7th and 8th grade school students to read and ponder over sustainability of big cities: how were they designed and how they are being managed. The student competitors are encouraged to contemplate on designing a city that they think is ideally sustainable. They consider issues such as stormwater management, urban agriculture and green energy. The specific topic for the competition varies from year to year. That for any given year is published around 15 July of that year. In preparation for the competition, groups of students in schools located in different regions of the country begin to study and work on the topic under an experienced mentor designated by the school.

Using the SimCity software program each group of competing students proposes the design of an ideal city and write about it in a 1,500-word essay. Then they proceed further to design a scale model of their imagined city and prepare a detailed project plan. Additionally, they work on a presentation for a face-to-face encounter with the judges at Regional championships held on a Saturday, usually in mid-January of the following year. The winners of the Regional competitions from all over the country compete nationally in February. The national competition is held in Washington, DC. The 2018 competition is scheduled for 20 February. A fuller description of the entire competition process is given at http://futurecity.org/about.

This year (2016-2017) the Regional New York City competition was held on 21 January, Saturday at PS 126 Manhattan Academy of Technology. The event was sponsored by 15 entitties including the IEEE.-USA. Karen Armfeld, PE of AECOM Transportation, once again, graciously agreed to act as the coordinator for the NYC event. Thank you, Ms. Armfeld. David Horn and Kim Smith represented the NY Section of the IEEE and acted as judges. And the winner was:

Trinity Regional School, East Northport, Long Island, NY

Please see the cover picture of the winners!!

You can read a published report on the event at: **https://goo.gl/BIFkFT**. We have also made a PowerPoint presentation (in pdf format) of the event

that can be accessed at **https://goo.gl/3Wn1sR**. Many more pictures are available at **https://goo.gl/photos/7wnJa99fZrzx3xXf9** .

The national final of the Future City competition, its 25 th edition, was held at Capital Hilton hotel, Washington, DC on 21 February. This time the national champion was West Ridge Middle School, Austin, Texas. The (IEEE) Institute published a nice report on it. In case you missed it the article is available at http://insight.ieeeusa.org/insight/content/627763. Congratulations to WRMS. Keep up the spirit.

If you are a resident in New York City and vicinity and you would like to have more info on Regional competition please log in to http://futurecity.org/region/contact-15

David Horn of the NY Section interviews a group of competitors

Kim Smith (second from right) of NY Section was also a judge at the Regional competition

POWER & ENERGY SOCIETY
INDUSTRY APPLICATIONS SOCIETY
LIFE MEMBERS AFFINITY GROUP
NEW YORK SECTION

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

Power Quality Metering Basics

Tuesday, March 28th, 2017

THE PRESENTATION:

This presentation will discuss metering power quality:

- Power quality definitions sags, swells, transients — What is Power Quality
- Poor Power Quality – what is it to you? — Key measurement points
- Power quality terms used in the power industry — Power Quality terms to avoid
- Power quality facts and trends — What are voltage disturbances
- Common Power Quality Waveform Signatures such as Voltage Sags, Momentary Interruptions, Voltage Swells
- PQ Parameters and PQ disturbances — PQ Parameters to be recorded
- PQ Disturbances briefly defined — PQ Disturbances – Causes
- What are Harmonics — Where to Harmonics come from?
- Available power quality technology for the commercial and industrial building industry

THE SPEAKER: Matthew Strong, Siemens

Consulting Electrical Engineering Companies in San Diego (2 years) and Newport Beach Calif – (12 years) 14 years total. Square D Company Industrial Sales for the Petrochemical Industry – West Coast - 5 years. PowerLogic (Square D Company Sales and Business Development - 4 years Siemens Business Developer Power Distribution Solutions Group Presently with Siemens. Education: San Diego State University BS degree. Past Chairman of the Orange County (Calif) IEEE

ALL ARE INVITED – PLEASE POST

RSVP: https://meetings.vtools.ieee.org/m/44562
Chair Programs: Arnold Wong
wongar@coned.com or (212) 460-4189
Chair Technical Committee: Sukumar Alampur
salampur100@hotmail.com or (917) 522-2844

FOR SECURITY REASONS: NO WALK-INS!

When: 5:00 pm — Starts-Refreshments & Program
5:30 pm — Program Starts
7:00 pm — Program Ends

Where:
Con Edison
The Annex
4 Irving Place, New York, NY 10003
Nearest Subway: 14th St/Union Sq.

This program will be awarded IEEE Continuing Education Units (Fee required)

THE INSTITUTE OF ELECTRICAL AND ELECTRONICS ENGINEERS, INC.

Leveraging Technology for a Better Tomorrow

NY IEEE Education Committee

& New York Chapter of IEEE Systems, Man, Cybernetics (SMC) Society

March 31, Friday, 6~ 8:00 PM at LIU-Brooklyn, Room: HS 119

Net Neutrality:
Cooperation and Competition

Vishal Misra, IEEE Fellow
Professor of Electrical Engineering and Computer Science
Columbia University

ABSTRACT:
The issue of Network Neutrality has ignited considerable public debate recently. While the term and much of the discussion originated in the legal community, we started looking at it from an engineering and networking perspective a few years ago. We employed the lens of cooperative game theory and a careful modeling of the Internet including the topology, peering relationships and protocols used on the Internet. Our primary conclusion is that Network Neutrality should be expressed in terms of how you treat competition, not in how you treat packets and we proposed a definition of Network Neutrality that expresses that. We present some of our results including our prediction back in 2008 of a rise in paid peering (last year Netflix signed paid peering arrangements with all 4 of the top broadband providers in the US), the inadequacies of the Network Neutrality regulation in the US and the recent regulations in India, where the regulations are consistent with our definition of Network Neutrality.

Distinguished Lecture Speaker Bio:
Vishal Misra is a Professor Electrical Engineering and Computer Science with Columbia University. He is a Founder & Chief Scientist, Infinio, a market leader in storage acceleration. In 2011 he founded Infinio. After raising $24 million from top-tier venture capital firms and hiring a professional executive team, he transitioned to the role of Chief Scientist for the company. Prof. Misra is also an avid cricket fan and one of the founders of Cricinfo. He has received an NSF CAREER Award, a DoE CAREER Award, and Google and IBM Faculty Awards. He is an IEEE Fellow, an Associate Editor, Journal of the ACM and Chair, ACM SIGMETRICS, special interest group on performance evaluation.

Location:
Directions: http://www.liu.edu/Brooklyn/About/Visit/Directions.aspx
Refreshments: Refreshments will be offered at 6:00 PM, presentation starts at 6:30 PM.
ALL ARE INVITED

Active Electromagnetics for Modern Communication Systems
Prof. Dimitrios Sounas (UT Austin)
Date: Friday, Mar. 31st, 2:00pm-3:00pm
Location: CEPSR 414
Host: Prof. Harish Krishnaswamy

Abstract:
Modern communication systems are characterized by increasing demands in terms of various metrics, including low loss, power efficiency, compact size and integrability. Many of these requirements can hardly be achieved through conventional technology and require the development of new techniques. In this talk, I will show how it is possible to address these problems and design electromagnetic devices with unprecedented characteristics by using time modulation, nonlinear effects and gain. I will begin my talk by discussing how time modulation can be used to achieve magnetless nonreciprocity in various frequency ranges, with applications in the design of circulators for full-duplex communication systems, isolators for protection of sources, nonreciprocal metasurfaces for advanced wave manipulation, and topological insulators that are immune to disorder. Next, I will show how by combining electromagnetic resonances with nonlinear effects, it is possible to design interesting optical functionalities, such as isolators without any form of biasing, and power limiters. I will also present the unique characteristics of structures with balanced gain and loss, focusing on the unprecedented functionalities that such structures can provide, including broadband cloaking and negative refraction without using resonant metamaterials. I will show how all these concepts are aligned with the recent advances in the fabrication of efficient nanodevices at microwave, THz and optical frequencies, and provide a general vision for a new generation of electromagnetic devices.

Biography:
Dimitrios L. Sounas received the Ph.D. degree in Electrical and Computer Engineering with the highest honors from the Aristotle University of Thessaloniki, Greece, in 2009. Between 2010 and 2015, he was a Post-Doctoral Fellow, first at Polytechnique Montreal and later in The University of Texas at Austin. Since 2015, he has been a Research Scientist in The University of Texas at Austin. His research interests span over a broad range of areas, including electromagnetics, plasmonics, optics and acoustics, with a particular emphasis on the design of nonreciprocal, nonlinear and active devices. He has been the author or the co-author of 48 journal papers, 90 conference papers, 2 book chapters and 4 patents, among which papers in highly selective journals, including Science, Nature Physics, Nature Communications, Physical Review Letters, and IEEE Transactions. He has made major contributions in the area of magnetless nonreciprocal components, which have attracted significant interest from the industry and the military for inclusion in the next-generation wireless communication systems. His work has been covered by the general media and resulted in the foundation of a startup company in Austin, specializing in the design of angular-momentum circulators for RF and acoustical systems.

Thanks!
(t) 212-854-1701, (c) 734-709-6368
Mingoo Seok

IEEE
Advancing Technology for Humanity

2017 IEEE Region 1 Annual Student Conference

April 7-9, 2017 – University at Buffalo (SUNY)

Connecting Students with Professionals and IEEE Leaders

Date:
April 7-9, 2017

Location:
University at Buffalo
(SUNY)
208 Davis Hall
Buffalo, NY 14260

Organizing Committee:
Conference Chair:
Dr. Charles Rubenstein, Pratt Institute
(c.rubenstein@ieee.org)
Conference Co-Chair:
Dr. Jennifer Zirnheld, UB
(zirnheld@buffalo.edu)

Program/Technical Activities:
Margaret Donnelly, UB
(mcd9@buffalo.edu)
Student Leadership Session Chair *and* Treasurer:
Bala Prasanna, AT&T/ IBM (retd)
(bprasanna@ieee.org)
Competitions and Judges:
Kyle Thompson, UB
(kt49@buffalo.edu)
MicroMouse Competition Chair:
Soon Wan, VICR
(qimsoon@ieee.org)
Student Paper Contest Co-Chairs:
Dr. Ali Abedi, U Maine
(ali.abedi@maine.edu)
Dr. Jason Hui, BAE Systems
(jason.k.hui@ieee.org)
Ethics Competition Chair:
Bruce Hecht, Analog Devices
(bruce.hecht@analog.com)

Student Volunteers Chair:
Dr. Kevin Burke, UB
(kmburke@buffalo.edu)
Young Professionals/WIE:
Chun-Shao (Andy) Chen, UB
(chunshao@buffalo.edu)
Accommodations:
Livio Forte III, UB
(liviofor@buffalo.edu)
Secretary:
Brandon Austin, UB
(bjaustin@buffalo.edu)
Webmaster:
Jordan Hoeber, UB
(jrhoeber@buffalo.edu)

Region 1 Director:
Ron Tabroff
(r.tabroff@ieee.org)
R1 Student Representative:
Kayla Ho, NYIT
(kayla.ho.us@ieee.org)

Version 7: 03/04/2017

The IEEE Region 1 Student Conference is the premier annual event where all student branches from IEEE Region 1 (Northeastern United States) meet to discuss mutual challenges and compete in regional competitions.

The conference objective is to encourage lively student engagement and provide an opportunity for the students to network and learn from other students from across the Region 1, while applying practical engineering knowledge in the various competitions.

It also provides the great opportunity for the student members to network with the Industry Professionals and the IEEE Leaders.

Conference Highlights:

- *Undergraduate Student Paper Contest*
- *MicroMouse Workshop for Newbies and Pros*
- *Regional MicroMouse Competition*
- *Student Ethics Competition*
- *Award Ceremony and Dinner*
- *Networking Opportunity*
- *Meet IEEE Leaders and Industry Professionals*

To submit a paper for the Student Paper Contest or register for other Competitions, follow the directions on the Hotel and Conference Registration Page at:
https://meetings.vtools.ieee.org/m/44086

Hotel Registration Deadline: March 16, 2017
Conference Registration Deadline: March 31, 2017

About the Hotel Accommodations:
DoubleTree by Hilton Buffalo-Amherst (10 Flint Road, Amherst, New York 14226) Hotel accommodations will be provided (via a rooming list – do NOT book directly with the hotel) on a first come first serve basis for those traveling more than 100 miles each way. Teams will be required to share a room (4 students per room). Hotel accommodations will not be provided for local participants but meals will be provided during the conference. Those non-students wanting a room should contact Dr. Rubenstein at c.rubenstein@ieee.org to obtain one within our block at $120/night.

The 2017 Region 1 MicroMouse Competition & Workshop is proudly sponsored by:

IEEE★USA
http://ieeeusa.org

University at Buffalo The State University of New York

THE NEW YORK SECTION'S 2017 AWARDS DINNER DANCE

The 2017 IEEE NY Section Awards Dinner Dance honoring the Section's Awardees will be held on Saturday evening, May 6.,2017

This year, once again, our Annual Awards Dinner Dance (black tie optional) will be held in the beautiful Mercury Ballroom, located on the third level of the New York Hilton Midtown Hotel, 1335 Avenue of the Americas (between 53rd and 54th Streets). This year's awardees include individuals from MTA's New York City Transit and individuals upgraded to the grade of Fellow in the IEEE - three from IBM, one from New York University, and two from Columbia University.

The Dinner Dance will begin at 6:00 pm with hot and cold hors d'oeuvres and cocktails in the Rotunda and Mezzanine area on the third floor. Here we will have a chance to relax, get acquainted, and reacquainted. The dinner, a choice of either a succulent filet mignon, delicious salmon, or vegetarian entrée will begin at 7:00 pm. Each entrée will be accompanied by a soup, salad, and dessert course. The presentation of the awards will take place after dinner and dance music will be provided between dinner and after the presentation of the awards, until 11:00 pm.

While valet parking is available at the hotel, there is no discount from the hotel's standard parking rate. Additionally, the Hilton was unable to provide a discounted room rate for this event; so, its standard room rates apply.

Tickets for the affair may be obtained by completing the reservation form below and forwarding it to Mr. Horn at the address listed below before April 10, 2017. The NY Section is offering a free 1/2 page advertisement in its monthly publication - The Monitor - for supporters purchasing a full-price table of ten tickets at $2,750. Individual tickets are also available at $275 for non-IEEE members. **A special non-transferrable rate of $150 for each ticket is available to IEEE members in good standing.** ***Note that this special rate is for the attending IEEE member and one guest only and an IEEE Member name and number must be provided below.***

If you have any questions or need additional information, please contact:
Mr. David Horn at (631) 560-2309 or at nysectionadd@yahoo.com

TICKET RESERVATION FORM

Send form to: Mr. David Horn
129 Rosemont Avenue
Farmingville, NY 11738

Please indicate # of entrée selections:
Filet Mignon _____
Salmon _____
Vegetarian _____

Please identify any special dietary restrictions (Kosher, Shellfish, etc.) below:

_____

Send tickets to:

Name: _____
Company: _____
Address: _____
City: _____ **State** _____ **Zip** _____
Telephone: _____ **E-Mail:** _____

IEEE Member Name(s) and #(s): _____
_____

No. of IEEE Member Tickets @ $150 per ticket: _____

Other Tickets:

No. of Tables @ $2,750 per table: _____
No. of Tickets @ $275 per ticket: _____

Total Amount Enclosed: $ _____

Make Check Payable to: New York Section, IEEE

Drones: "Is Sky the Limit?" exhibition opens May 9th 2017 at the Intrepid Sea, Air & Space Museum, New York and runs through 3 November 2017. IEEE Foundation and the IEEE New York Chapter are supporters of the exhibition and related programs. The IEEE History section is a partner in Teacher professional development at the Museum. During the duration of the exhibition, IEEE members who live outside of New York are extended a 20% admission discount to the Museum with proof of membership at the box office. IEEE members who live in New York City are welcome to come to the Museum at the New York City resident price which is up to 40% off the regular admission price during the exhibition.

Editor's note: Cooperation between the USS Intrepid berthed at NYC harbor and the IEEE is not new. We have visited the wartime ship (now a museum) on various occasions, on the IEEE Day, 2015 and then on the 25th anniversary of the Hubble telescope. We recommend a trip to the Intrepid with family and friends. You will enjoy, especially if you like the technologies behind drones.

A report on the IEEE Day celebrated on Intrepid is available at https://goo.gl/BZc3Bb

Our photographs may be seen at https://goo.gl/iEYBe7

This picture gives an idea how big the ship was (for those days)

THE END