



# IEEE New York Monitor

**Advancing Technology for Humanity**

**December 2018, Vol. 65, No. 10**



**Ken Vought, Life Senior member of IEEE and former (2006) chair of the New York Section left us on 16 December 2018**

**“Beware of little expenses; a small  
leak will sink a great ship”**

**Benjamin Franklin**

**American statesman, author, scientist,  
diplomat, humorist . . .**

**1706 - 1790**

# **Principal officers of the IEEE New York Section 2018**

**Chair: David K. Horn**

**Vice Chair: Chapter Operations: Robert Pellegrino**

**Vice Chair: Section Activities: Wilson Milian**

**Treasurer: Thomas Villani**

**Secretary: Amy Battalones**



**Editor, NY Monitor: Dr. Amitava Dutta-Roy**

Currently, the New York Section of IEEE comprises of the following

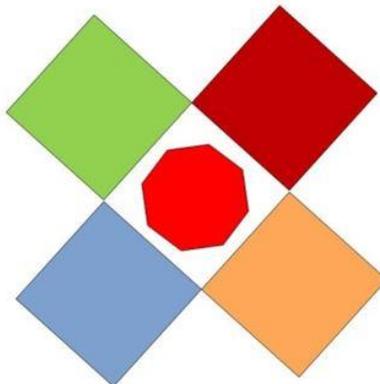
**Active Chapters of the IEEE Societies:**

- **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**
- **Broadcast Technology Society**

**&**

**The following Affinity Groups as defined by IEEE**

- **Consultants' Network**
- **Life Members Affinity Group (LMAG)**
- **Women in Engineering**
- **Young Professionals**





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# QUICK DATE CHECKS FOR NY SECTION EXCOMM MEETINGS

The following are the 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)

~~10 January~~

~~14 February~~

~~21 March~~

~~11 April~~

~~9 May\*~~

~~13 June~~

**No meetings during the months of July and August**

~~12 September~~

~~10 October~~

~~14 November~~

**12 December**

**4 pm at ConEd Building**

**Election of the Section officers**

**5.30 pm sharp at ConEd Building**

**RSVP to Paul Sartori ([sartorip@coned.com](mailto:sartorip@coned.com)) ASAP**

\*\*\*\*\*

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 venue, all members desirous of attending any ExComm meeting must notify the Section chair. Thank you for your understanding

## From the keyboard of the Editor

This is the slimmest edition of the NY Monitor of the entire year of 2018. Most of our volunteer tasks for the IEEE ear-marked for the year are over by now. The academics among us are busy grading their students or thinking of the next thesis topic; the engineers gainfully employed at commercial companies are checking their year-end reports; and independent consultants are wondering where their next contracts will come from. And *all* are busy contemplating on what gifts to purchase for their loved ones!! Who would then have the time to read the Monitor? That is why we decided to keep this edition slim.

In this issue, as the contents page indicates, you will find the results of the 2018 election at the NY Section. David Horn has been elected to continue with a second term. We congratulate him and the entire team of Executive Committee members. One year of hard work successfully completed and we now look forward to the execution of one more year's work.

In November 2018 IEEE published the list of our members who have been uplifted to the grade of Fellows. There are six of them from NY Section and Tappan Zee Subsection.

I wonder how many of our members know about the wonderful work initiated and sustained by the funds provided by the IEEE Foundation. These philanthropic efforts span the globe. The IEEE Foundation also sustains the IEEE History Center. All these are reported in a newsletter published by the IEEE Foundation. I do not know how many of you receive copies of this newsletter. We therefore decided to include a pdf copy of the latest issue.



# IEEE NEW YORK ELECTION

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The annual election of the principal office bearers of IEEE New York Section was held on 14 December 2018 at ConEd Building, 4 Irving Place, New York, NY 100 at 5 pm. According to the election slate provided by the Section nomination committee chaired by Wilson Milian, only one position, that of the chair of the NY Section, was contested. The two contestants were: Robert Pellegrino and the incumbent David Horn. After a secret voting process Horn was declared the winner. The other positions were uncontested.

## Principal officers of the New Section for 2019

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### Section Officer Positions:

Section Chair: **David Horn**

Section Vice Chair – Chapter Operations: **Vacant**

Section Vice Chair – Section Activities: **Chamara Johnson**

Section Treasurer: **Thomas Villani**

Section Secretary: **Amy Batallones**

### Elected Committee Chair Positions:

Chapter Organization Committee Chair: **Paul Sartori**

Historian: **Amitava Dutta-Roy**

Long Range Planning Committee Chair: **Vacant**

Operations & Procedures Manual Committee Chair: **Vacant**

Publications Committee Chair: **Vacant**

Webmaster: **Harold Ruchelman**

**Please note that the chairs of chapters and affinity groups are elected by the respective entities**

After the election the members of the ExComm got together and celebrated the end of a successful year at nearby Paul & Jimmy's on 18<sup>th</sup> E Street. Below are some photos.



Wilson Milian and Mohammad Farzad Haghi



Sarah Chung, David Horn and Wilson Milian



Amitava Dutta-Roy and Frank Hsu



Frank Hsu, Tom Villani, Robert Pellegrino, Mary Izaac, David Weiss, and Chamara Johnson



David Horn, Wilson Milian, Mahammad F. Haghi, Peter Mauzey, Frank Hsu and Tom Villani



David Weiss, Chamara Johnson, Sarah Chung, Ping-Tsai Chung and David Horn



Sarah Chung, Ping-Tsai Chung, David Horn and Wilson Milian



Chamara Johnson, Sarah Chung, Ping-Tsai Chung and David Horn

## Ken Vought leaves us



**Ken Vought at the PES Outing of 2012**

Yes, we celebrated a successful end of the year but three days later our hearts sank with the news (reported by our colleague Robert Pellegrino) that our dear friend, Life Senior Member and a past Chair (2006) of the NY Section **Ken Vought** passed away on early 16 December 2018 at the Yorktown Rehabilitation Center (formerly known as the Field Home). Ken was active in the Vehicular Technology Society Chapter. When I joined the NY Section in 2006 Ken was the chair and I found him a most compassionate chair. He had kind words for everybody and always tried to reach a consensus of opinions at the ExComm meetings. He was also interested in cultural activities. I fondly remember our long chats over coffee at Au Bon Pain on top of the Union Square subway station. We convey our heartfelt condolence to **Inge Vought**, Ken's widow.

Pellegrino who lives near the Vought residence in Westchester informed us that **Ms. Vought** had told him that he would be cremated. She was planning on having a memorial service for him sometime in January 2019.

In the meantime, sympathy cards and condolences may be sent to:

Inge Vought  
 30 Woodlake Drive  
 Croton-on-Hudson, NY 10520

Pellegrino later e-mailed us that there would be a Masonic Service for **Brother Ken** on Saturday, 19 January. **Ms. Vought** welcomed spouses and significant others (guests) and encouraged all members of the NY Section to attend especially if they knew **Ken**. She also extended an open invitation to any person who knew **Ken** to say something about him, his Masonic work with the Brotherhood Fund and his interest in the IEEE and Vehicular Technology.

\*\*\*\*\*  
 We were able to retrieve some photos from our archive. There they are dedicated to the memory of **Ken Vought**  
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Ken playing bocce ball at PES Outing of 2012



Ken with the IEEE NY Section group at PES Outing at the bar of Krucker's



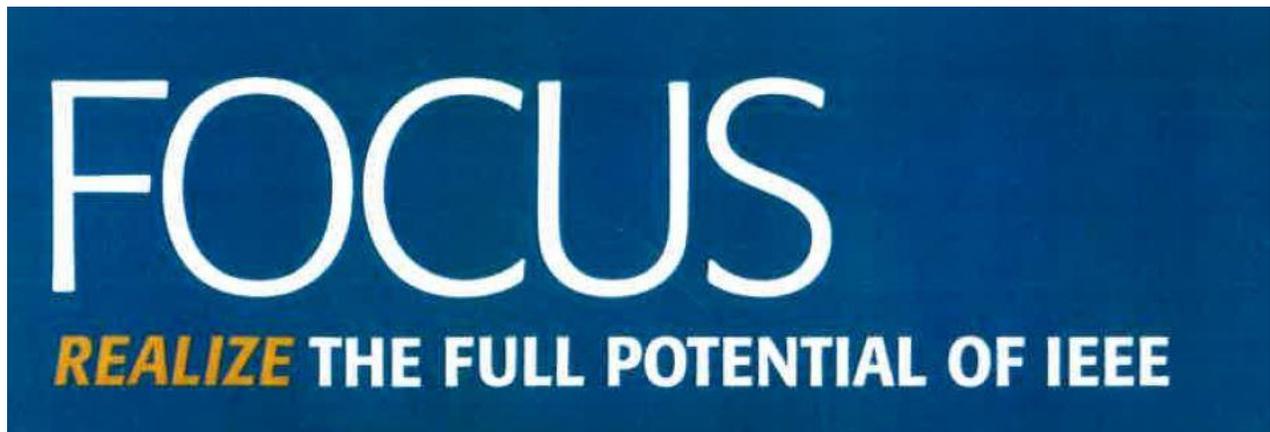
Ken at the NY Section's annual Award Dinner Dance 2013



We all must sail for the great unknown one day or the other



Annual ADD: Ken Vought, Amitava Dutta-Roy, Robert Pellegrino, William Perlman and Harold Ruchelman



## Sitting

on your cushy chair in a climate-controlled room and clicking your computer mouse you may not realize how lucky you are and how much work the IEEE volunteers in EPICS or Smart Village projects are putting in for

bringing the fruits of modern technology to the reach of the remote corners of the world. These parts have, for example, been devoid of electricity or pure drinking water until now. Thanks to the local communities and the philanthropic generosity of the IEEE Foundation EPICS (short for Engineering Projects in Community Service) programs are now able to introduce “telecommunications services to rural communities in the Amazon rainforest in Brazil. The IEEE Centro-Norte Brazil Section and the IEEE Student Branch at Federal University of Para (UFPA) erected a cellular base station and tower in the small agricultural community of Itabocal, Brazil. The base station can run mobile services including voice calls, SMS and the Internet.

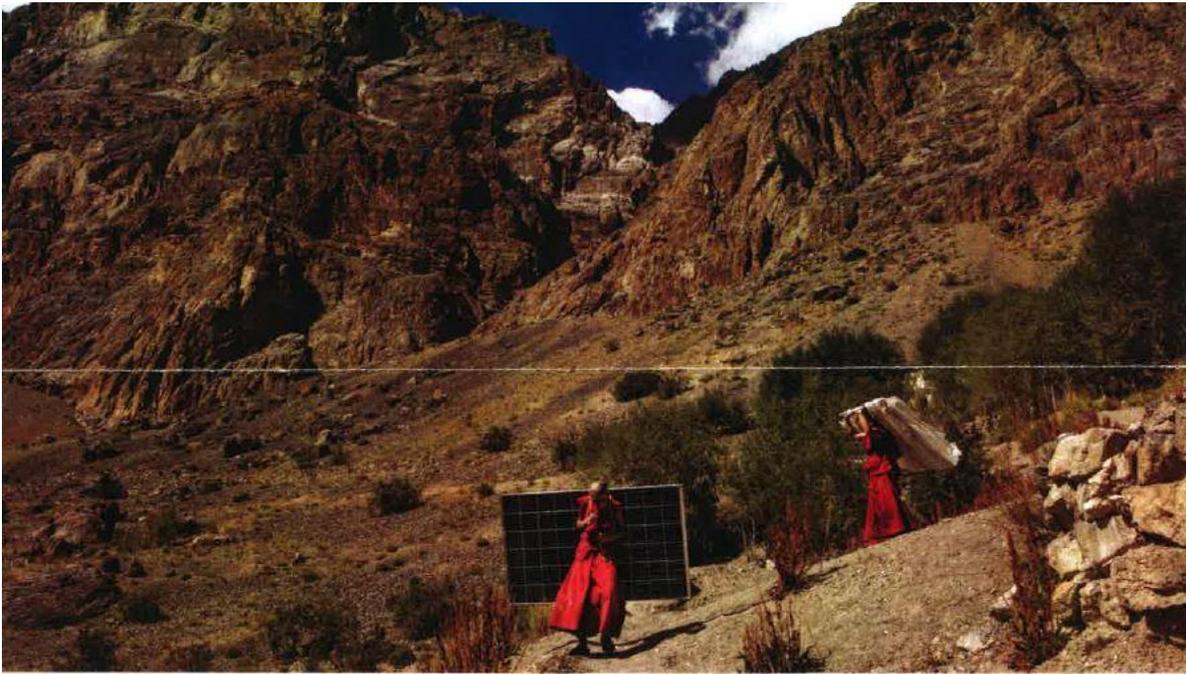
“The project was designed with community impact in the Amazon in mind, and the reaction within the community has been really positive. From the start, [local] community members asked what they could do to help and have been [our] true partners.

“In addition to organizing university and high-school students to work on an engineering-related project for a local humanitarian organization, this EPICS project had additional impacts: enhanced health, education, socialization, safety, the facilitation of small business development and sharing more about their culture with the rest of the world.” >>Read more about this project in FOCUS (IEEE Foundation), October 2018, No. 26: <http://sites.ieee.org/ny-monitor/files/2019/01/IEEE-Foundation-Newsletter-Oct-2018.pdf>.



The communications tower and base station enable cellular Connectivity resulting in enhanced health services, education and safety as well as the facilitation of small business development

**TAKE** another example: that of “Lights for the Enlightened: An Engineering Trek in the Himalayas: How a band of techie volunteers electrified Lingshed monastery and school” by Jean Kumagai of IEEE Spectrum magazine. **Lingshed Gompa**, is a Buddhist monastery perched high in the Indian Himalayas. The article describes the local conditions existing before the deployment of solar-powered microgrids and what it is after the installation. Fascinating reading! Read all about it in <https://spectrum.ieee.org/green-tech/solar/lights-for-the-enlightened-an-engineering-trek-in-the-himalayas> .



Buddhist monks have carried solar panels along difficult stretches high up in the Himalayas. But their efforts paid off

**WE** urge you to read the FOCUS and you will be able to get an idea how much is happening behind the scene. Perhaps, that will encourage you to join one of the IEEE volunteer groups.

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## Upcoming meetings at the NY Section



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

### Cable and Pipe Seals for Water and Fire Tuesday, December 18, 2018

#### THE PRESENTATION:

Roxtec is the manufacturer of a mechanical sealing system for cables and pipes from water, fire, gas and pests in infrastructure environments. We have been sealing many applications Post Hurricane Sandy as our seals are watertight to 4 bar (*or a depth of 133ft*) and they also serve as a UL1479 Fire Stop. Roxtec's multi-diameter technology makes it ideal for both retrofit and new construction.

We will review this technology and several Transit and Utility projects in New York including: *South Ferry Station-New York City Transit, PSEG GIS Substation, Long Island Hillside Substation etc.* This presentation takes an in-depth look at the Roxtec sealing system and how it can be adapted and deployed to protect critical infrastructure.

**THE SPEAKER:** Jason Hood, Global Segment Manager – Infrastructure, Roxtec, USA



Jason has 17 years of experience in the application of cable and pipe penetration seals in multiple industries including power, oil & gas, rail and industrial construction. Previously, he was the VP Business Development in the US, focusing on engineering and end-user education and consulting on through-penetration firestop and cable and pipe penetrations for protection against environmental demands and hazardous locations. His experience as a Global Manager has led to consulting on international projects and applications for data centers, life sciences and high-demand applications. Through his experience, he has seen the impact of improperly planned cable and pipe penetrations resulting in the need to implement a best practices approach to ensure safety and operational reliability.

**ALL ARE INVITED – PLEASE POST**

RSVP: <https://meetings.vtools.ieee.org/m/183321>  
Chair Programs: Arnold Wong  
[wongar@coned.com](mailto:wongar@coned.com) or (212) 460-4189  
Chair Technical Committee: Sukumar Alampur, PE  
[salampur100@hotmail.com](mailto:salampur100@hotmail.com) or (917) 522-2844

**FOR SECURITY REASONS: NO WALK-INS!**

**When:** 5:00 pm — Starts-Refreshments & Program

7:00 pm — Program Ends

**Where:** Con Edison  
Edison Room, 19<sup>th</sup> Floor  
4 Irving Place, New York, NY 10003  
Nearest Subway: 14<sup>th</sup> St/Union Sq.

**This program will be awarded Continuing Education Units.**

THE INSTITUTE OF ELECTRICAL AND ELECTRONICS ENGINEERS, INC.





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

**Bioinformatics in Cancer Diagnostics and Treatment**

Tuesday, January 29, 2019

**THE PRESENTATION:**

The battle against cancer requires the integration of multidisciplinary domains of knowledge, based on physical, engineering and clinical principles, and computational modeling, aimed at exploring the physical, metabolic, biochemical, molecular mechanisms of cancer, identifying and validating novel generation mechanism trends, apoptotic and proliferation trends, biomarkers, and individualized medicine in cancer. Indeed, one the most challenging issues in cancer diagnosis and treatment, is the wide variation in types of cancer cells from one patient to another, even within the same stage or grade of tissue pathology; addressing this problem it would pave the way towards the development of individualized cancer treatment and drugs. Cancer bioinformatics is a multidisciplinary field emerged through the convergence of genomics, biotechnology and information technology, and encompasses data analysis, extraction, classification, and interpretation, through development of data and algorithmic models, namely, statistics and machine learning, respectively. Experimental results acquired, through a novel near infrared (NIR) label-free, polarimetric imaging system, analyzed, and processed, demonstrate that that both high sensitivity and specificity to detect, identify, and discriminate among different tissue pathologies, is possible. This is appealing to the further development and dissemination of efficient digital microscopy techniques, as well as to the development of individualized treatment and medicines.

**THE SPEAKER: Professor G. C. Giakos, Manhattan College**



Professor G.C. Giakos is Professor and Chairman in the Department of Electrical and Computer Engineering, at Manhattan College, NY. Director of the Laboratory for Cognitive Imaging and Neuromorphic Engineering (CINE), Bioinspired Vision and Autonomous Systems Research, at Manhattan College, NYC. His research is articulated in imaging technology innovation, through the integration of physics and engineering, cognitive machine vision, Industry 4, artificial intelligence, intelligent sensors, target classification and pattern recognition, machine learning, cancer detection, bioinformatics. He has been recognized for "his leadership efforts in advancing the professional goals of IEEE" by receiving the 2014 IEEE-USA Professional Achievement Award" in "recognition of his efforts in strengthening links between industry, government and academia". He has been elected Fellow of the IEEE and he is a Distinguished Fellow of the ONR. His team is the first in the world to explore polarimetric imaging using laser illumination at NIR for unstained lung cancer tissues and cells characterization; his

team is the first in the US to pioneer the introduction and characterization of CZT semiconductors for flat panel radiography. His Dissertation was on the "Detection of Longitudinal EM Waves in Air". He contributed to funding in excess of \$6,500,000, as well as he has been awarded with 20 patents and authored more than 250 peer-review papers.

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| <b>ALL ARE INVITED – PLEASE POST</b>   |  |
| RSVP: <a href="https://meetings.vtools.ieee.org/m/187117">https://meetings.vtools.ieee.org/m/187117</a><br>Chair Programs: Arnold Wong<br><a href="mailto:wongar@coned.com">wongar@coned.com</a> or (212) 460-4189<br>Chair Technical Committee: Sukumar Alampur, PE<br><a href="mailto:salampur100@hotmail.com">salampur100@hotmail.com</a> or (917) 522-2844 | <b>When:</b> 5:00 pm — Starts-Refreshments & Program<br><br>7:00 pm — Program Ends<br><br><b>Where:</b> Con Edison<br>Edison Room, 19 <sup>th</sup> Floor<br>4 Irving Place, New York, NY 10003<br>Nearest Subway: 14 <sup>th</sup> St/Union Sq. |
| <b>FOR SECURITY REASONS: NO WALK-INS!</b>  |  |
| <b>This program will be awarded Continuing Education Units.</b>  |  |

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## **Important URL links**

**[www.ieee.org](http://www.ieee.org)**

**Region 1: [http://www.ewh.ieee.org/r1/new\\_york/](http://www.ewh.ieee.org/r1/new_york/)**

**SMC NY Chapter: <https://ny-ieee-smc.weebly.com/>**

**Request to chairs of all NY Section Chapters and Affinity Groups:**

**If you happen to have a web site, please let us know the URL and we'll give links to those sites. Thank you.**