‘Science is not only a disciple of reason but, also, of romance and passion’

Stephen Hawking, British physicist
8th January 1942 – 14th March 2018
Principal officers of the
IEEE New York Section
2018

Chair: David K Horn
Vice Chair, Chapter operations: Robert M Pellegrino
Vice Chair, Section Activities: Wilson M Milian
Treasurer: Thomas Villani
Secretary: Amy Batallones

Editor NY Monitor: Dr. Amitava Dutta-Roy

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

The following Affinity Groups as defined by IEEE

• Consultants’ Network
• Life Members Affinity Group (LMAG)
• Women in Engineering
• Young Professionals
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<td>Upcoming event in the NYC and vicinity and of interest to IEEE members (see the flyers at the end)</td>
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<td>• April 27, Friday, 6~ 8:00 PM at LIU-Brooklyn Center for Entrepreneurship &amp; Innovation, Pratt Building Room 110: FinTech, Financial Engineering and Machine Learning: Dr. Peter C. L. Lin, Stevens Institute of Technology, Hoboken, NJ</td>
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<td>• 5 May, Saturday: NY Section, Award Dance &amp; Dinner: Hilton Midtown Towers, at 53rd Street and Av. of the Americas, New York, the ticket order form may be found at the end of this edition.</td>
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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

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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.

*PLEASE BE ADVISED THAT THE SECTION CHAIR AND THE NY SECTION EXECUTIVE COMMITTEE HAVE DECIDED TO HOLD A MEETING ON WEDNESDAY,

5 MAY, 2018 AT 12.30 PM AT ConEd BUILDING
Ah, the spring is almost here showcasing New York at its best. In the city you cannot fail to notice the absence of thick woolen garb on people still running from one place to another as if seconds matter. And in the suburbs you can hear the birds chirping and fill your eyes with the sight of green foliage covering the trees. The winter is gone like a nightmare. Want to see the cherries blossoming? I welcome you to the Queens Botanical Gardens. A riot of colors. Soon we will have four seasons. In the city you can still fail to notice the absence of thick woolen garb, only to hear the chirping that’s the beauty of having four seasons. The red priest Antonio Vivaldi was right. Anyhow, while we wait for the Section’s chapters to gear up full speed it might be a good idea to take stock of what recently happened in our Section and to look forward to the programs already scheduled so that you don’t miss any of them.

Three presentations organized by the NY Section’s chapters and an affinity group since our last edition were reported to the Monitor.

- 30 March, 2018, Friday: A SMC/Education Committee presentation on “Integrating Data Science with Science of Care for Precision HealthCare: Applications of Computational Behavior Science in an Interpretable AI Fashion for Minimally Disruptive Medicine;” Speaker: Dr. Pei-Yun S. Hsueh, Member and Research Scientist, The Center for Computational Health, IBM Academy of Technology at IBM T.J. Watson Research Center, Yorktown Heights, NY
- 12 April, 2018, Thursday:” Presented by: PES/IAS/LMAG as sponsors, ConSoc chapter and the IEEE History Center as cosponsors and with support from CS, CIS and Spectrum magazine: “The Origins of Silicon Valley: Why and How it Happened Here” by IEEE Distinguished Lecturer Paul Wesling, IEEE Life Fellow. (A fuller report is included later in this edition.)

Our 2018 annual Award Dinner & Dance event will be held on 5 May at Hilton Midtown Towers, Av. of the Americas and 53rd Street, Manhattan, New York. The recipients of 2018 IEEE awards and 2018 class of IEEE Fellows will be introduced and honored at this event. You will no doubt encounter old colleagues and also meet the new generation of IEEE members at this event. From the past experience I can tell you that the cocktails, main edibles and the victuals are indeed delicious. Confirm your space by sending ASAP the form attached at the end of this newsletter to David Horn, our 2018 NY Section chair and the MC of the ADD event.
The mere mention of Silicon Valley conjures an image of gleeful nerds test riding their Google AI powered vehicles or speeding along California highways in their luxurious chariots — sporting brand names such as Mercedes Benz, BMW, Porcshe and Lamborghini, not to mention the Ferrari. All SV nouveau riches live in sprawling mansions like the owned by Mark Zuckerberg, the Facebook billionaire. Yes, that is the image most people around the world have of the Silicon Valley. It is a dream of plain tinkerers or engineers and scientists with highly acclaimed graduate degrees from all over the world to land with a cushy job in SV. We, most of the old timers, on the other hand know about the creation of Hewlett and Packard in the SV and about Professor Fred Terman who was instrumental to the realization of the concept of the valley that has become a role model of entrepreneurship in the electronic and computer industry.

We invited Paul Wesling, an IEEE Life Fellow who spent decades in the electronics industry and became an expert in electronics packaging has an intimate knowledge of the history and culture of the SV to tell us more about it. Wesling has been closely involved with the IEEE Electronics Packaging Society and has edited several journals and newsletters related to the Society. Wesling is an IEEE Distinguished Lecturer. For a more detailed bio of Wesling please visit our March edition.

At our event Wesling was witty, informative and articulate. He took us back to late 19th century when Silicon Valley was still a pasture land. He traced how innovation and entrepreneurship were cherished even in those days, long before the SV gave birth to HP. I am sure that even many of our Life Members did not know that. Wesling has provided links to his slide presentation and a YouTube rendering of his talk at Stanford Historical Society.

The links:

Slides of the 12th April presentation:  http://www.pwesling.com/docs/1804a-wesling.pdf


Video: https://goo.gl/cSdSUH
Photographs taken at the Wesling event
ABSTRACT:
Machine learning (AI) and Quantitative capital management have been a big headline among various articles. A Recent survey from Wall Street Journal also unveils more secrets in the area. We hope to provide a discussion about the current themes in asset management development and the research opportunity from academic perspectives. This research examines the innovation in asset management from both the computer technology and financial services angles and provides examples to integrate machine-learning techniques into financial modeling and to connect data analytics to customer-facing applications. By finishing a loop to include financial instrument creation, we then show a complete scope of technology-based service chain of asset management. The presentation will

Dr. Peter C. L. Lin is the youngest Industry Professor at Stevens Institute of Technology NJ and he serves as the Director of Financial Analytics MS program. Passionate about quantitative investing, Peter funded Gamma Paradigm, a quantitative investment advisor with a FinTech arm in Asia focusing on AI and data-driven models. Peter began his career as a quantitative analyst at Ryan Labs Asset Management, with $4B asset under management, and as a researcher in quantitative portfolio theories, term-structure models, and alternative investments. Peter received his BS in Computer Science and Information Engineering from National Taiwan University, his MS in Computer Science from Columbia University, and his Ph.D. in Applied Mathematics and Statistics from Johns Hopkins University.

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

Long Island University, Brooklyn Campus, Center for Entrepreneurship & Innovation, Pratt Building Room 110

Refreshments: Refreshments will be offered at 6:00 PM, presentation starts at 6:30 PM.

Event Agenda: 6:00 ~6:30PM - Refreshments, 6:30 ~ 7:30PM - Presentation, 7:30 ~ 8:00PM - Q/A.

ALL ARE INVITED
2018 ANNUAL AWARDS DINNER-DANCE

TICKET ORDER FORM

Please respond to:  Mr. David Horn
129 Rosemont Avenue
Farmingville, NY 11738

Please check:  
_____ I will attend  _____ I will not attend

_____ I will have a guest  _____ I will not have a guest

Forward tickets to:

Name ________________________________________________
Title ________________________________________________
Company ________________________________________________
Address ________________________________________________
City, State, Zip Code _______________________________________
Telephone Number (_____) _______ - ____________
E-Mail ________________________________________________

IEEE Member Number ________________________________

Please state any dietary restrictions: ________________________________

My Check:  _____ is enclosed  _____ will follow

Please make check of $150.00 (for IEEE members) and $275 (for non-IEEE members), payable to: New York Section, IEEE. (Members of the IEEE please write your membership No. Thank you!)

Black tie optional.

This year's main course selections are: Filet Mignon, Salmon, or Vegetarian. Please indicate how many meals in each category are needed: Filet Mignon_____  Salmon_____  Vegetarian_____

For questions or further info contact:  David Horn at nysectionadd@yahoo.com or (631) 560-2309