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New York Section Special Announcements

Congratulations to Charles Rubenstein for receiving the IEEE-USA’s Robert S. Walleigh Award!

We would also like to congratulate student Eyal Novotny on becoming the newest addition to the GOLD team!

IEEE Mentoring Program Pilot Invitation

IEEE is offering its members the opportunity to participate in an online program designed to match IEEE members for the purpose of facilitating a mentoring partnership. We value your involvement in IEEE activities and ask that you use your career and life experiences to help other IEEE members in their professional development through a mentoring partnership.

IEEE is partnering with The Training Connection, a vendor that has developed a web-based mentoring program to facilitate the matching process. Participation in the Region 1 (Northeast U.S.) pilot program is voluntary and has now been extended to include IEEE members residing in Regions 2 and 3 (Eastern and Southeastern U.S.) above the grade of Student Member. If you are interested in participating, or would be interested in additional information on the program, go to http://www.ieee.org/mentoring. This IEEE site also provides the information necessary for access to enter the program’s web site by offering the Group ID.

We hope that you have the interest and time to participate! If you have any questions, please contact Cathy Downer, IEEE Mentoring Program Coordinator at c.downer@ieee.org.
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Greeting New York Section Members!

I hope your summer has been an enjoyable one. This past summer has been kept active by the many groups that make up the IEEE. The Monitor has started up again, and there’s a lot to report about! Societies and Affinity Groups are evolving as time goes on and volunteers devote their time to a very worthy cause.

Additionally, there are many important happenings taking place within the next few months. PACE, GOLD, and WIE are working together to bring a “Careers in Engineering” Open House to Polytechnic University in Brooklyn. This event is especially beneficial to those seeking continuing education in the field of engineering. It will provide engineering career experiences from real people and with Carl Selinger’s legendary seminar on “Stuff you don’t learn in Engineering School” will provide valuable details to help your engineering career. This seems to be the first in a series of open houses around the metro area.

Hope you enjoy the issue!

Victor Butler

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http://ewh.ieee.org/r1/new_york/monitor

NY Monitor, Editor
Calendar of Events

Tuesday, September 13
6:30 pm : BTS - Tutorial on Closed Captioning Part 1 (see page 12)

Tuesday, September 27
5:30 pm : EMS - Transportation Discussion (see page 13)
6:00 pm : PACE - Careers in Engineering Open House (see page 14)

Thursday, October 6
6:00 pm : IEEE FAP Awareness (see page 15)

Wednesday, October 12
Computer Society - Computer Communication Architectures by Dr. Morris Schwartz, Chief Communication Engineer from NYCT

Tuesday, November 15
6:30 pm : BTS - Tutorial on Closed Captioning Part 2 (see page 12)

Tuesday, January 10
6:30 pm : BTS - To Be Determined

Wednesday, January 25
6:00 pm : Joint Meeting WIE/Computer Society - Speaker: Mary Y Wisniewski IBM TJ Watson Research Center

Please visit our web site for updates throughout the months:
http://ewh.ieee.org/r1/new_york/monitor
I would like to extend warm greetings to the New York Section, and my best wishes to Peter Greco upon his departure. While I will miss Peter’s professionalism, wisdom, and friendliness, I hope to contribute some positive energy and ideas to the Professional Activities Program.

Here’s some information about myself; I am a BSEE ’03 from Polytechnic University, currently working as a design and consulting engineer for EME Group in NYC. I received my NYS-EIT certification and since graduation have worked for Parsons Brinckerhoff Power, FramatomeANP, and my current firm. In addition I had a significant amount of experience from internships with EJ Electric, NYCTA, and Power Concepts. I admit that I am young, but having already been through two layoffs, and being successful in quickly rebounding both instances, I think I have some experience and ideas that would benefit our membership. I was featured in a brochure for Polytechnic’s office of career services in my junior year and won a business plan competition the following summer.

I became a volunteer with the IEEE in early 2005 as the Professional Activities Chairman for G.O.L.D. and have since been working with and assisting recent graduates on issues like resume writing and job hunting. You may have seen me at the GOLD ‘Signals’ Networking Events (see May 2005 Monitor, pg. 6 – top-right picture) or at other local WIE, PES, or Green Building events in NYC. My experience is largely in design of electrical systems (nearly all types) for small buildings, institutional facility assessment and energy related assessments and studies.

Let me begin my Career Guidance with some fundamentals, regardless of the industry you work in:

☑ Your college Career Services office is usually the best place to start if you are a student or recent graduate; networking is more valuable than you think.

☑ Your Professional Portfolio is your personal marketing kit that will represent you when people are looking for new employment, and this consists primarily of your:
  1. Professional Resume
  2. Project Experience
  3. Bio-sketch

The IEEE is your most powerful career resource in terms of job hunting, networking, resources, and technical knowledge.

IEEE-USA’s and IEEE Job Site:
http://careers.ieee.org/

Entry-Level Employment Assistance:
http://www.ieeeusa.org/careers/entrylevel.html

Important PE/EIT dates:
http://www.els-examreg.org/

I plan on posting more information on a website. If you have suggestions or questions on areas of professional activities that interest you please contact me.

I hope to meet many of you at the ‘Careers In Engineering Open House’ to be held at Polytechnic University on Tuesday, September 27, 2005.

Matt Nissen, PACE Chairman
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Engineering Management Society June 23rd Meeting:
Redevelopment of the World Trade Center Site

On June 23, 2005, the New York Section of the IEEE Engineering Management Society hosted a very successful presentation by Mr. Anthony Cracchiolo, P.E., Director of Priority Capital Programs for the Port Authority of New York and New Jersey on the challenges of managing the redevelopment of the World Trade Center (WTC) site. The presentation was held in Con Edison headquarters at 4 Irving Place.

Mr. Cracchiolo began the presentation with an overview of the initial activities that have taken place at the World Trade Center site since 9/11, including the construction of the temporary WTC PATH station. He then proceeded to discuss the comprehensive planning efforts that went into developing the Master Plan for the site and the schedule for redevelopment. Mr. Cracchiolo discussed the myriad challenges involved in managing the planning, design and construction activities among the various stakeholders involved in rebuilding the site.

The presentation concluded with an animated architectural rendering of the new World Trade Center Transportation Hub that will replace the temporary PATH station and connect with the new Fulton Transit Center currently under design by New York City Transit.

After the presentation, Mr. Cracchiolo answered questions from the audience and was presented with an award from Marty Izaak and Victor Simuoli, Chairman and Vice Chairman of the New York Section of the Engineering Management Society.
IEEE NY SECTION DELEGATES ATTEND
National Latino Technology Achievers Awards Gala Banquet

By Matt Nissen

The National Latino Technology Achievers Awards Gala Banquet was hosted by L.I.S.T.A. (Latinos in Information Sciences and Technology Association) and was held at the Jacob K. Javits Center’s River Pavilion on June 29th 2005. The event promised an all-star line-up of officials and industry leaders, with hosts Jose Marquez-Len, L.I.S.T.A. President & CEO; Kaleil Tuzueman, L.I.S.T.A. National Chair; Natalia Cruz, Anchor for Noticero 47 Telemundo; and Monica Morales, Reporter for WNBC 4 News.

Representing the NY Section were Paul Sartori, NYS Chairman; Ken Vought, NYS Vice Chair of Operations; Nick Nonis, G.O.L.D. Chair; Darlene Rivera, W.I.E. Chair; Wilson Milian, Computer Society Chair; and Matt Nissen, P.A.C.E. Chair. Thanks to Nick’s impressive network, he arranged for all IEEE attendees to receive complimentary admission to the Banquet and Dinner as a recognized Not-for-Profit.

The food was a delicious Chicken and vegetables in cream sauce. The Samba and Tango played by Alfredo De la Fé All-Stars was a real treat. There were also plenty of promotional items and cocktails offered for free by sponsors like Dewars, WNBC and Staples. Among the many awards given by L.I.S.T.A. over the course of the evening, the Corporate Citizen Award was received by Magda Yrizarry, VP of Diversity for Verizon. Magda stood out because her speech was emotional, and clearly indicated her success was due in large part to organizations like ASPIRA; that supported her through her youth, and Verizon, who is the largest employer of Latinos in the NY Metropolitan Area.
On Thursday, August 17, the New York City IEEE G.O.L.D. and W.I.E. chapters hosted this year’s third “Signals Mixer” event. The purpose of this event was to allow new and upcoming engineers the chance to meet with other people with similar interests. It was a great turnout! Our guest speaker was Warner W. Johnston, manager of Network Transmission Systems and Advanced Planning at our local ABC television station. Mr. Johnston’s most recent passion (beginning in 1973) is the closed captioning system that you see on your home television set or at a local bar. Mr. Johnston was kind enough to invite everyone to the upcoming BTS Society technical discussion on this topic. If you find the closed caption system fascinating this is the event for you. If you are interested in seeing ABC television’s resources Mr. Johnston also offered a brief tour of their facilities. If you have any questions regarding any of the aforementioned events, please contact him at (212) 456 - 2547 or e-mail address: Warner.W.Johnston@abc.com.

At the “Signals Mixer” we had an activity where we spent five minutes discussing ourselves and getting to know the participants both professionally and on a slightly more personal level.

At the end, the person with the most business cards (twelve) won a PDA case, which he kindly donated back to the raffle that was held at the end of the mixer. It was a very friendly environment. On behalf of the IEEE GOLD and WIE chapters I would like to extend an invitation to all who are interested no matter what study or industry, to join us at our next event!
Electrical Engineering Education and Charles P. Steinmetz

by Melvin I. Olken, PE

During the Renaissance, universities had faculties of theology, medicine, law and philosophy. What we would regard today as physics was considered as part of natural philosophy, and until Isaac Newton’s time, hardly involved mathematics.

The distinction between engineering education and physics goes back to the founding in France in 1747 of the Ecole des Ponts et Chaussees (School of Bridges and Roads). The scientific basis of material designs was clearly recognized with Napoleon’s establishment in 1797 of the Ecole Polytechnique, which came to have Fourier, Ampere and other leading mathematicians and physicists as teachers.

In the US, engineering education began with the establishment of the military academy at West Point in 1802. The first US school of civil engineering (in contrast to military engineering), Rensselaer Polytechnic Institute, was founded in 1824 and awarded its first degree in civil engineering in 1835. Union College followed in 1845, Polytechnic Institute of Brooklyn in 1854, Cooper Union in 1859, and Massachusetts Institute of Technology in 1861. Some universities organized colleges of engineering, which they called “Scientific Schools”: Sheffield at Yale and Lawrence at Harvard, both in 1847. In 1862 (in the midst of the Civil War) Congress passed the Morrill Act “donating public lands to the states which may provide colleges for the benefit of Agriculture and the Mechanic Arts (A&M)” and this led to the creation of the land grant colleges in each state. Partly as a result of this law, the number of engineering colleges increased to more than 80 by 1880. It is of note that Cornell University, which today is an Ivy League school, was one of the institutions created as a result of the Morrill Act.

A classic example of how A&M institutions have evolved and grown is that of Texas A&M. The accompanying photo has difficulty in conveying that the school occupies a 5,200 acre campus valued in excess of $1 billion dollars with more than 100 buildings and a 324 acre research park, and is among the largest in the nation. Since its inception, the school has awarded more than 284,000 academic degrees including approximately 61,000 graduate and professional degrees.

The establishment of the Ecole Polytechnique in Paris apparently stimulated the creation in Germany of Technische Hochschulen (today called technical universities). The first, in Karlsruhe, was established in 1825 and was followed by those created in a number of other German cities, as well as in Zurich and Vienna. However, in England,
the first polytechnic institute was not established until 1882. The first chair of engineering in any British university was created in Glasgow, Scotland in 1840 and it was not until 1875 that Cambridge University had an engineering chair. Until the latter part of the nineteenth century, the science and application of electricity were almost everywhere taught as a sub-set of physics. In 1882 and 1883, upon the urging of Werner Von Siemens, a number of the German technical universities created electrical engineering departments.

In the US, the first option of electrical engineering within a physics department occurred in 1882 at MIT (then Boston Technical College) and two years later electrical engineering became its own and distinct course. Electrical engineering departments were then established at Cornell and Lehigh in 1883, at Brooklyn Poly in 1886 (the first BSEE degree was granted in 1891), at Wisconsin in 1891, and Stanford in 1892.

Along with the new courses in electrical engineering came the publication of textbooks. One of the first texts published was Electric Transmission of Energy and its Transformation, Subdivision and Distribution by Gisbert Kapp in 1883. In this book he included a history of machinery and electrical units, at a time when the AC versus DC battle was raging. In 1890 Kennelly and Williamson wrote Practical Notes for Electrical Students that used phasor graphs for the study of alternating currents.

However the most important contributor to alternating current understanding was Charles Proteus Steinmetz. He had received a doctorate in electrical engineering from the University of Breslau but left Germany for the US for political reasons. He was an avowed Socialist who had written inflammatory letters opposing the policies of Chancellor Otto Bismarck. (He remained a staunch Socialist for the rest of his life in the US and actually ran as a Socialist and was elected to a public office in Schenectady, NY). In 1892, he wrote a seminal paper on magnetic hysteresis which was a remarkable piece of work and led to his choice as General Electric’s chief scientist. Steinmetz served as the AIEE President in 1901 and was the chief architect in making Union College in Schenectady one of the leading electrical engineering schools of its day.

Steinmetz was a prolific writer and was easily the outstanding exponent of electrical engineering theory and practice in the United States, if not the world. In 1897 he published Theory and Calculation of Alternating Current Phenomena, a book consisting of 30 chapters on 401 pages, with two appendices totaling another 91 pages. In the preface he states “….I have endeavored to make it as elementary as
excluding calculus, except for the section on the power aspects of transmission lines...”

Steinmetz followed this book by another, *Theoretical Elements of Electrical Engineering*, published in 1901. In addition, he produced 30 major papers and received some 200 patents. Steinmetz also played a major role in the creation of the General Electric Research Laboratory, which was organized in 1900.

For further reading: The Evolution of Electrical Engineering by Ernst Weber, with Frederik Nebeker, IEEE Press

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Broadcast Technology Society
Tutorial on Closed Captioning

Warner W. Johnston, appointed chair of the New York City chapter of IEEE Broadcast Technology Society, will be presenting a pair of tutorials on Closed Captioning on Sept. 13 and Nov. 15 at 6:30 PM. Mr. Johnston is currently chair of CEA R4.3 WG 8, which is the body responsible for CEA-608 the ANSI standard on NTSC Closed Captioning and is a member of CEA R4.3 WG 1, which handles the ATSC closed captioning standard CEA 708. He has been broadcasting for more than 30 years and has been involved in Closed Captioning since the mid 1970s. For the last 12 years he has represented ABC-TV at Standards Bodies involved in Closed Captioning.

While the NTSC standard will in theory be going out of use in the next few years, because the ATSC standard includes a method for carriage of NTSC captions, it will likely remain important for years past the end of NTSC transmission. While the ATSC document deals only with captions and being partitioned so that it only deals with the receiver portion of the existing specification (SMPTE and ATSC are in a similar and coordinated fashion partitioning their documents on Captioning), in the NTSC universe Captioning includes not only captions, but text displays, URL carriage, and information on the show rating, or TV Parental Guidelines. A brief look at CEA 766, the document concerning TV Parental Guidelines for ATSC will be included.

While the standards under discussion are not IEEE documents, they are concerned with an area of broadcasting which is not well known and allows an increase in potential audience of 10% or more.

As all good broadcasters know time and place are subject to change depending on breaking news and unexpected job shifts. At this time the location will be at ABC-TV 47 West 66th St. New York, NY. You must RSVP to either wwjohnston@ieee.org or to warner.w.johnston@abc.com for security reasons, and because if there is a change I need to be able to reach you. Phone is 212 456 2547 however this is not as reliable as e-mail. Details will be posted in the near future at http://www.atsc.ws and note that this is not the web site of ATSC, which is http://www.atsc.org.
Joel P. Ettinger, the Executive Director of the New York Metropolitan Transportation Council (NYMTC), the metropolitan planning organization for the New York area. He will discuss the complex challenges of planning and programming transportation projects in the area.

Prior to joining NYMTC, he was Regional Administrator for the Federal Transit Administration in Chicago.

Joel is a native New Yorker. He received his Bachelor of Civil Engineering degree from the City College of New York and a Master of Science in Transportation Planning from Northwestern University.

Refreshments will be served

Location: Con Edison Building, located at 4 Irving Place, NY 10003, and 14th Street, in the Executive Dining Room on 19th Floor The nearest subways at the Union Square station

No Walk-ins Due to Building Security
Limited Space, please RSVP by September 20, 2005 to:
Victor Simuoli, EMS Vice Chair, NY Section 212-736-9100 x2237
vrsimuoli@urbanengineers.com

All Invited !!!
Please Post
INSTITUTE OF ELECTRICAL AND ELECTRONICS ENGINEERS
NEW YORK SECTION
G.O.L.D Graduates of the Last Decade
W.I.E. Women In Engineering
P.A.C.E Professional Activities Committee for Engineers

Present the first in a series of Joint IEEE & University Open House Events:

Careers in Engineering
Open House

Location: Polytechnic University, Dibner Library Executive Dining Room, LC400
Date: Tuesday, September 27, 2005 Time: 6:00 – 8:00 PM

6:00 PM Appetizers & Networking
6:30 PM Guest Speakers:

Ken Vought, P.E., RT&T Consultants – As a veteran engineer and consultant in the fields of power systems and infrastructure, Ken’s experiences will take you around the world and are full of insight into building the world’s electrical and urban infrastructure. Ken is also the Vice Chair of Operations for the IEEE NY Section.

Carl Selinger, “Stuff you Don’t learn in Engineering School” – Carl’s career spans aviation, transportation planning and strategic business planning, mainly during his 31-year career with PANY & NJ. He is a frequent guest speaker, and facilitates strategic planning sessions, focus groups and "Synectics" brainstorming sessions. His unique seminar, "Stuff You Don't Learn in Engineering School," has helped over 1,000 young engineers over the past decade learn non-technical soft skills. Carl is also a contributing editor for Spectrum.

7:00 PM Networking Session / Snack break Don’t Forget Those Business Cards!
7:15 PM Information about Polytechnic’s Graduate Programs
7:30 PM Announcements & Closing

Directions:
Bern Dibner Library of Science and Technology, Executive Dining Room LC400,
4th Floor 5 MetroTech Center, Brooklyn, NY 11201-9818
http://www.poly.edu/brooklyn/directions.cfm

All are welcome!! Please RSVP by September 20, 2005, space is limited.

Matt Nissen, PACE - Matt.Nissen@ieee.org 212-529-5969 x316
Nick Nonis, GOLD - N.Nonis@ieee.org Darlene Rivera, WIE - Drivera938@ieee.org
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FEATURING LARRY GROGAN, FINANCIAL PLANNER

Date: Thursday, October 6, 2005
Time: 6:00 p.m. – 8:00 p.m.
Where: IEEE 3 Park Ave. NYC
17th floor conference room
Light refreshments
Admission: FREE

Reservations Suggested; life partners welcome.
R.S.V. P. via email gold-nyc@ieee.org

Paying off student loans?
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Where are you taking your life?

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* Seminar attendees receive an additional 10% off planning services
The goals of the WISE 2005 Industry Program are to foster exchanges between practitioners and the academics, to promote novel solutions to today's business challenges, to provide practitioners in the field an early opportunity to evaluate leading-edge research, and to identify new issues and directions for future research and development work. We invite submissions on all topics related to web engineering including technologies, methodologies, and applications. Papers can take the form of detailed case studies, technical white papers, new methodologies, new standard specifications, benchmarking models, or any other contributions demonstrating innovative web engineering technologies, methods, and applications.

Topics of particular interest include but are not limited to those identified in the conference CFP, as well as those listed below:

**Technologies**
- Development of new web services standards
- Use of business process automation technologies
- Use of semantic web and grid computing
- Innovative solutions for performance optimization
- Benchmarking of leading runtime environments

**Methodologies**
- Web engineering with a Model Driven Architecture
- Requirements engineering for web applications
- Software design reusing legacy systems and data
- Quality focus and use of Test Driven Development
- Benchmarking of leading web engineering tools

**Applications**
- Case studies of major web engineering projects
- Implementation of a Service Oriented Architecture
- Outsourcing and use of Business Services Networks
- Analysis of industry-specific trends and challenges
- Benchmarking models in selecting web IT vendors

**IMPORTANT DATES**

**Industrial Paper Deadlines**
Abstracts due ................... June 10, 2005
Papers due ........................ June 17, 2005
Decision notification ............ Aug. 12, 2005
Camera-ready copies due ...... Sept. 12, 2005

**Guidelines and Submission:**
All industrial papers will be peer-reviewed and published in the regular conference proceedings.

For easy identification, industrial papers should have as their title "Industry Track: rest of title". Please follow the guidelines of Lecture Notes in Computer Science (LNCS) published by Springer:
http://www.springerlink.com/content/l9747m7g67237g67/fulltext.pdf.

Please submit your paper online in PDF format:
http://elab.njit.edu/wisesubmit

For more information, please contact the Industrial Program Chair.

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TBA

For information about the conference: http://www.cs.txstate.edu/wise05.
For details on the WISE '05 Industrial Program: http://elab.njit.edu/wise.