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NY SECTION EXECUTIVE COMMITTEE ELECTS 2008 BOARD

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The IEEE MONITOR is the official news publication of the New York Section of the IEEE. Reaching over 5,500 Electrical Engineers and Computer Engineers across New York City (Brooklyn, Bronx, Manhattan, Queens and Staten Island), Rockland and Westchester Counties. The publication reports on events and activities of interest to the general membership and carries the monthly IEEE society chapter calendar of events as a service to its readers.

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Marlen K. Waaijer
455 Beach 37 Street
Far Rockaway NY 11691
Phone: (718) 868-3219
E-mail: nymonitor@ieee.org

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The NY Monitor needs reporters and proof readers. You will get a chance to attend and report on meetings of IEEE Societies and interview masters in your field of study. Submit to nymonitor@ieee.org

Events submission checklist

- Contact person name, e-mail address & phone number
- Name of society or group(s) that sponsor the event
- Name of event
- Date of event (indicate tentative or firm)
- Time of event
- Location (FULL address)
- Location directions (subway, etc.)
- Presenter details (if applicable)
- Event abstract (if applicable)
- Registration/RSVP requirement and instructions
- Cost to attendees (if any)
- CEU/PDH credits & cost information (if applicable)
- Refreshments
- Society/group website location for further information
- E-mail information to: nymonitor@ieee.org

Submission deadlines

Issue	Deadline
January	November 19, 2007
February	December 19, 2007
March	January 19, 2008

Note: Announcements that are submitted too late for the print version, and last minute changes to events (please get them to us as soon as possible), will be included in the e-mail notice that is posted at the start of the month of publication.

On the cover: Top: Melvin I. Olken, Historian, Balvinder Blah, Secretary, David Weiss, Chair, Warner W. Johnston, Vice Chair Operations, Darlene Rivera, Treasurer, Ralph Tapino, Special Events, William Coyne, By-laws, David Horn, Vice Chair Section Activities, stands behind Darlene Rivera. **Middle**: Warner W. Johnston, David Weiss, David Horn, Marlen K. Waaijer, Managing Editor, Balvinder Blah, Darlene Rivera, Melvin I. Olken. **Bottom**: Wilson M. Milian, Chair NY Section Computer Society, Robert Pellegrino, Membership Development, Ralph Tapino, Bill Montgomery, Chairman Publicity IEEE PES& IAS Chapter NY & LI Sections, Stanley Karoly, 2007 Chair NY Section, Michael Miller, 2008 Secretary Life Members Board, William Coyne behind Bill Montgomery.

CALENDAR OF EVENTS

(Mark your calendar)

Tuesday, December 3, 2007, 6:30 pm – 8:00 pm
Collaborative Sponsorship: Society of American Value Engineers (SAVE) New York City Metropolitan Chapter, IEEE NY Section Professional Activities Committee for Engineers (PACE) and IEEE Consultants Network present:
Tareck Vahjet, **"Value RISK AS USED IN VALUE ENGINEERING STUDIES "**
Location: MTA Capital Construction Company Offices (MTACC) 469 7th Ave. 11th Floor, New York, NY 10018 (between West 35th—36th Street)
RSVP required: Matt Nissen, matt.nissen@ieee.org or Marty Izaak, mizaak@urbanengineers.com

Tuesday, December 4, 2007, 6:30 pm – 8:00 pm
(this meeting was rescheduled)
Broadcast Technology Society (BTS) presents: Chapter Chair Warner W. Johnston **"Captioning I Tutorial"**
Location: 47 West 66th St, New York, NY
RSVP required 24hrs in advance: Warner W. Johnston, wwjohnston@ieee.org or 845 659-9580
No walk-ins allowed for security reasons!
Please visit the IEEE NY Online community site https://www.ieeecommunities.org/ieee.ny for late minute changes.

Wednesday, December 12, 2007, 6:00 pm - 8:00 pm
WIE NY Section presents:
John Santamaria, P.E., Assistant Chief,
"MTA NYCT Central Electronics Shop Tour"
The tour is free but is limited to IEEE members
Location: 33-33 54th Street, Woodside, NY 11377
RSVP required: Alexandra Gagliotta,Alexandra-WIENY@ieee.org
No walk-ins allowed for security reasons!
For further updates go to: www.ieee.org/nywie

Wednesday, December 12, 2007, 12:00 pm – 2:00 pm
NY Section Executive Committee (ExCom) Meeting
Location: Con Edison, 4 Irving Place New York, NY 10003, Room 1549S
RSVP required: **Paul Sartori sartorip@coned.com**
No walk-ins allowed for security reasons!
If you are not an EXCOM member and wish to attend, contact: Stanley Karoly at stkar@ieee.org

Thursday, December 13, 2007 – 7:00 pm — 8:00 pm
(refreshments at 6:30pm)
Tappan Zee Subsection presents:
Dr. Grace Wang,
"Dependable Sensor Networks".
Location: Polytechnic University, Westchester Campus, 40 Saw Mill River Rd, Hawthorne, NY 10532
For updates go to: www.ewh.ieee.org/r1/new_york/tz

Tuesday, December 18, 2007 – 5:00 pm - 7:00 pm
PES/IAS meeting: "Sub-metering for Residential and Commercial Projects - GE"
Location: Con Edison, 4 Irving Place New York, NY 10003
RSVP required: **John Michelsen, JohnM@Graphalloy.com, 914-968-8400, Arnold D. Wong, WONGAR@coned.com, 212-460-4189** No walk-ins allowed for security reasons!

Please always go to the NY Community Online website to check for late announcements and last minute changes https://www.ieeecommunities.org/ieee.ny

Message from the Editor

As we go to press with the December issue, our NY Section Executive Committee elections have taken place. I was honored to be nominated for Managing Editor and gladly accept the responsibility for another year.

David Weiss, our 2008 Chair, jumped in with both feet and his first message appears on page four.

We are catching up with earlier submissions and request that you keep sending your articles and photographs to us for sharing with the NY community.

In this issue we reach out beyond the NY borders and bring you some announcements of upcoming 2008 conferences and symposiums. These announcements are hopefully an incentive for many of you to take that unfinished paper or that blossoming idea and complete it. The conferences mentioned in this issue are by no means the only ones around. I urge you to visit the IEEE website; go to conferences section and select the *Browse Call for Papers Deadlines* link on the left side of the page.

As the month of December has many holidays, the Calendar of Events is a bit short, but please visit the NY Section Online Community calendar for late entries. I thank you for reading the NY Monitor and look forward to an exciting year to come. Please send kudos and complaints to nymonitor@ieee.org.

Marlen K. Waaijer

TABLE OF CONTENTS

Masthead & Submission Guidelines - - - - - - - - - - - 2
Calendar of Events- 3
Message from the Editor- - - - - - - - - - - - 3
Table of Contents - 3
Message from the 2008 NY Section Chair - - - - - - - - - - 4
WIE MTA NYCT Central Electronics Shop Tour Poster - - 5
Control & Robotics Symposium call for papers - - - - - - 5
Society of American Value Engineers Poster- - - - - - - - 6
Polytechnic Announcement - - - - - - - - - - - - - - - - 6
Broadcast Technology Closed Captioning Lecture - - - 7
IEEE Region 1 Board of Governors & Leadership Training Workshop Summer Meeting by Mawmita Khan - - - - - 8
IEEE IPC Conference 2008 call for papers - - - - - - - - 9
PES/IAS meeting announcement- - - - - - - - - - - - - - - 10
NYCT R160 FIND by Sana Mushtaq- - - - - - - - - - - - - - 10
ICITA 2008 call for papers - - - - - - - - - - - - - - - - 11
Vehicle Technology Chapter(VTS) by Sana Mushtaq 12
PES Annual Awards Function by Michael Miller - - - - - - 12
2008 IEEE Sarnoff Symposium call for papers - - - - - 13
PERC review course announcement - - - - - - - - - 14
PERC review course schedule & registration form - - - - 15
2008 NY Section Awards Dinner form - - - - - - - - - 16

Chair's Column

by David Weiss, Chair, New York Section

Let me begin by thanking you for giving me this opportunity to serve. I've been an IEEE member for almost 40 years, and I've enjoyed many different roles. I've been an attendee and listener, author and presenter, Chair of the Vehicular Technology Society Chapter, Chair of the Student Activities Committee, and now Chair of the Section. Our Society is unusual in that it allows us to make contributions in so many areas, and now is a particularly opportune time for us.

First, there are important technical issues with national significance that engage all aspects of EE. Global Warming, Energy Independence, and Nanotechnology have instant recognition and importance to us and our country. In addition, aspects of our national security depend on our ability to detect and counteract terrorist threats. Who wouldn't be interested in solving those issues?

These fields involve all our chapters: broadcast technology, communications, computers, engineering management, instrumentation and measurement, medicine and biology, power and industry applications, and vehicular technology, as well as our affinity groups and committees. These are issues that provide the technical challenges we wanted when we became engineers and exciting programming for the IEEE, while attracting others to our banner.

Second, our Section is very fortunate to have leaders doing excellent work to promote engineering to others. We have strong appeal to students, recent graduates, and professionals. Our outreach and programs are better than ever. This is reflected in our student meetings, tie-ins with national and international conferences in New York, social gatherings, technical presentations, and life member activities. And of course, our Awards Dinner Dance. As a result of this our NY Section is unusual: membership is increasing!

How to keep the ball rolling? In the last few months I've met people from other groups that have common interests. These include outstanding institutions in our area like the New York Centers for Excellence (at Albany, Polytechnic, and Stony Brook), the City University Transportation Research Center, Brookhaven National Laboratories, and Columbia and Rockefeller Universities. They include nearby sections on Long Island and New Jersey with which we cooperate. And they include a wealth of world class commercial ventures in our backyard. All of these organizations can work with us to provide vibrant programs for our members.

In addition, we need to make clear to current and prospective members the benefits of membership. As I write, three important benefits are imminent. The IEEE International Ultrasonics Symposium will provide a networking session for student and GOLD members, the Brainstorm NY Conference will provide access for our members and another tour of the Indian Point Energy Center is in the planning, as our last one sold out.

Testimonies to the ongoing success of our Section are the many awards that our chapters, affinity groups, and committees have received in the past few years. These include Best–in–Class as well as many individual acknowledgements. It is indeed an honor for me to build on this tradition. In the coming months as I occupy this chair I will work with you to develop your activities and profiles, to help our community grow and thrive.

Let me close by talking about two things that have given me the greatest pleasure in the IEEE. First here is a picture of me at work chairing the June meeting where we were able to recognize the outstanding contributions of many of our members. Shown are representatives of some award winning groups: Women In Engineering; Student Activities Committee which was honored by the Future Cities Competition; GOLD, and Professional Activities.

Pictured are (left to right): Dr. Mary Lanzerotti of IBM, who received the WIE Engineer of the Year Award; me; Darlene Rivera, the Secretary of the NY Section and former Chair of WIE; Jignasa Ray,

the Vice Chair of WIE; Heba Elsayed, Treasurer of WIE; Amelie Gong, WIE Online Newsletter Editor; Marlen Waaijer, Monitor Editor; Balvinder Blah, Student Activities Chair; and Jean Redmond, Communications Society Executive Committee and member of WIE.

And finally, here is a picture of me and Stan Karoly, the outgoing 2007 Chair, presenting a Friend of the IEEE Award to Connie Crawford, Senior Vice President of NYC Transit at our 2007 Awards Dinner Dance.

IEEE Women in Engineering WIE

WIE NY SECTION PRESENTS

MTA NYCT CENTRAL ELECTRONICS SHOP TOUR

The tour will be led by Assistant Chief John Santamaria, P.E.

WEDNESDAY, DECEMBER 12, 2007
6:00 PM - 8:00 PM

THE TOUR IS FREE & **LIMITED TO IEEE MEMBERS**

33-33 54TH STREET, WOODSIDE, 11377

RSVP required, NO walk ins! **Contact** Alexandra Gagliotta by e-mail Alexandra-WIENY@ieee.org.
For late breaking information visit
www.ieee.org/nywie

CONTROL AND ROBOTICS SYMPOSIUM

IEEE Canadian Conference on Electrical and Computer Engineering (CCECE)
May 4 to 7, 2008 Niagara Falls, Ontario, Canada
www.ccece08.org

CALL FOR PAPERS

The 2008 IEEE Canadian Conference on Electrical and Computer Engineering (CCECE'08) will be held in Sheraton Fallsview in Niagara Falls, Ontario, Canada from May 4 through May 7, 2008. The venue, the city of Niagara Falls (www.city.niagarafalls.on.ca) with more than 15 million visitors annually, offers an abundance of activities that is bound to entertain people of all ages and walks of life. Niagara Falls is located 125 kms southeast of Toronto City and 27 kms north of Buffalo City, New York.

The conference, with about 90 technical sessions, will feature 8 technical symposia. The "Control and Robotics Symposium" will be a major forum for top international researchers interested in all areas of control and robotics and their applications. You are cordially invited to participate in the Control and Robotics Symposium of CCECE'08 by submitting full-length technical papers and/or organizing special sessions, workshops, tutorials and industrial exhibits. The symposium important deadlines are listed as follows:

- Full-length papers submission (12/7/2007)
- Special Sessions proposals submission (12/7/2007)
- Tutorials/Workshops proposals submission (12/7/2007)
- Notification of acceptance (1/18/2008)
- Final papers submission (3/7/2008)

For more information on the symposium scope and submission process, please consult the Control and Robotics Symposium Call For Papers (CFP) available at www.ewh.ieee.org/reg/7/ccece08/callfor.php.

Please note that the best student paper of the Control and Robotics Symposium, in expanded format and size, will be considered for inclusion in the IEEE Canadian Journal of Electrical and Computer Engineering. In addition, a select number of papers of the symposium, in expanded format and size, will be considered for inclusion in i) Intelligent Automation and Soft Computing, ii) IEEE Systems Journal, iii) Elsevier Computers and Electrical Engineering Journal, or iv) Inderscience Automation and Control Journal. A separate and detailed journal-style review process will be applied to all papers. We eagerly look forward to your enthusiastic participation in the symposium.

Keyvan Hashtrudi-Zaad *(Queen's Univ., Canada) Chair, Control and Robotics Symposium of CCECE'08.*

SOCIETY OF AMERICAN VALUE ENGINEERS (SAVE) NEW YORK CITY METROPOLITAN CHAPTER IN CONJUNCTION WITH

IEEE PROFESSIONAL ACTIVITIES COMMITTEE FOR ENGINEERS (PACE) – NY SECTION, AND THE IEEE CONSULTANTS NETWORK

RISK AS USED IN VALUE ENGINEERING STUDIES

by Tareck Vahjet of PMA Consultants, New York, NY

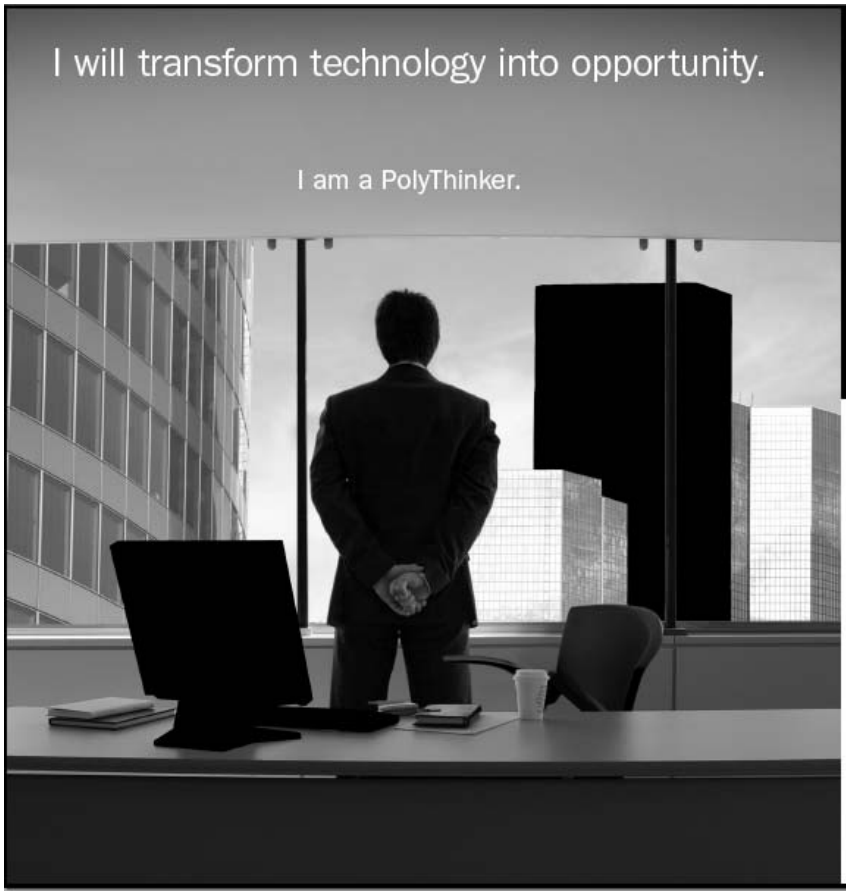
Monday December 3, 2007

6:00 PM - Sandwiches
6:30 PM – Talk
7:15 PM – Question and Answers

Location: MTA Capital Construction Company (**MTACC) Offices**

469 7th Ave. 11th Floor, New York, NY 10018 (between West 35th—36th Street)

RSVP required: Matt Nissen, matt.nissen@ieee.org or Marty Izaak, mizaak@urbanengineers.com



Join us for a graduate information session!

Thursday, December 6th 6-8p.m.

Westchester Graduate Center
40 Saw Mill River Road • Hawthorne, NY 10532

Brooklyn MetroTech Campus
Six MetroTech Center • Brooklyn, NY 11201

Long Island Graduate Center
105 Maxess Road • Melville, NY 11747

Graduate Programs in:
- engineering
- computer science
- financial engineering
- management
- tech writing & digital media
- biological & chemical science

Please RSVP:
phone: 1-800-polytech
e-mail: gradinfo@poly.edu
online: www.poly.edu/graduate

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Two Lectures by Warner W. Johnston

Sponsored by the New York Chapter for the Broadcast Technology

CLOSED CAPTIONING OF TV BROADCASTS

I. NTSC Standards
Tuesday, December 4, 2007
6:30 pm – 8:00 pm

II. ATSC Standard
To be announced

Closed Captioning is the method used in North America since the late 70's to bring to benefits of the television sound track to the deaf community. Where did it come from? How does it work? What are its limits? Initially Closed Captioning was developed for analog television transmission. However, the advent of Advanced Digital Television required the development of a new standard known as Advanced Closed Captioning. What are its improvements? The standards that document Closed Captioning, for which ABC, CEA and PBS shared a technical Emmy in 2005, will be explained. The differences implemented for Advance Closed Captioning and how it builds on Closed Captioning will be discussed. The technology will be presented in two parts, with the first lecture concentrating on Closed Captioning as documented in CEA-608-D for the NTSC standard analog television transmission. The second lecture will deal with Advanced Closed Captioning for the ATSC standard on digital transmission. Note that concepts embodied in Advanced Closed Captioning are based on those in Closed Captioning, so that a grasp of the material in first lecture is needed to fully appreciate the second lecture.

Warner W. Johnston - Manager Television Network Transmission, ABC Television - received the BA degree from Shimer College (now associated with the Illinois Institute of Technology -IIT) in 1973. He studied Electrical Engineering at IIT and has done graduate studies at New York University, Polytechnic University and George Washington University. Currently he represents ABC Television at the Consumer Electronics Association Standards Development Organization (ANSI) for the development of standards in the Consumer Electronics areas. He chairs several working groups within this SDO including those on Component Analog Television Interfaces, Regional Rating Tables, Document Maintenance and both Analog and Digital Closed Captioning.
Warner chaired the CEA committee, which In 2005 shared a technical Emmy for Standards Development of Closed Captioning with ABC and PBS. He has worked with ATIS T1, SMPTE, SCTE - all ANSI accredited SDOs, and with ATSC S8 and S13 on the development of A53, A65 and the A90 series of standards. Previously he was with RKO General (WGMS - Washington DC, WXLO - New York City, chief WAXY- Fort Lauderdale) 1972-73, and with Automatic Electric Labs 1973-1974.

COST: This talk is free to the public. IEEE Members, Students and Non-Members are welcome! No walk-ins for security reasons!
CEU credits are available, a fee of $15 per lecture is payable at the door.
To attend the talks, contact the speaker at wwjohnston@ieee.org or by phone: 845 659-9580.

IEEE is an Authorized CEU Provider of the International Association for Continuing Education and Training. IACET Provider #1255

LOCATION: ABC Building at 47 West 66th St., New York, NY. (ABC has many buildings on 66th St., be certain you enter at 47 West.) Getting there by Subway: Lincoln Center stop on the #1 IRT (66th St.)

This series was rescheduled from a previous date. Visit https://www.ieeecommunities.org/ieee.ny for late minute changes.

IEEE Region 1 Board of Governors and Section Officers Leadership Training Workshop Meeting - A Well-Organized Conference

By Mawmita Khan

Leadership is the most crucial aspect of any organization. In the presence of an effective leader, good team players rise to greatness, and average team players can surprise everyone with contributions that may be above and beyond their normal productivity. So quite naturally, the question becomes, "Who is an effective leader and how can we develop effective leadership qualities?" Contrary to popular belief leaders are not born, but real leadership is having or acquiring certain qualities that will make others follow you; not because they need to, but because they confidently believe in you. As qualities that make a leader are not always inherent; most of the time, they are developed and further improved in order to bring out the best leadership skills in a person. Leadership workshops are a very important means of carrying out that task. IEEE offers various leadership and technical workshops throughout the year. I was fortunate enough to be able to attend the IEEE Region 1 Board of Governors and Section Officers Leadership Training Workshop Meeting in Burlington Vermont this summer.

NY Section 2007 Chair, Stanley Karoly, flanked by Balvinder Blah, Student Activities Chair and Mohammad Hossain, Student Activities Chair, Power Engineering Society on the left and Devanand Deonarine, Student Activities Treasurer, Mawmita Khan, Student Activities Secretary and Kim Smith, Student Activities Chair, Communication Society on the right.

Recently, I was selected as a Student Activities Secretary of the IEEE Communications Society, and as a new ExCom member, I was looking forward to attending this event to improve my leadership and networking skills. It turned out to be an amazing experience as this was the first time I witnessed an event of this magnitude.

The Conference began on Friday, August 10, with a presentation by Dr. Grasso, Dean and Professor of the College of Engineering and Mathematical Sciences, University of Vermont. The enchanting speech of Dr. Grasso held the attention of the audience the whole time, although he was often interrupted by intelligent and amusing questions.

The 3-day conference was full of activities with successive workshops and intervals of delicious breakfast, lunch, and dinner, not to mention the after-dinner networking. The conference offered workshops on both technical and soft skills development. Some of the soft-skill workshops I truly enjoyed were, "Career & Life Management Skills for Success", "Effective Communication Skills", and "How to Run a Meeting". There were a number of presentations on IEEE operations as well. I have learned the basics of the regional IEEE operations from some well-organized presentations including "Section Operations", "E-Resources/Tools Proposed Website & TV", and "IEEE Operations Center and Staff". The Student Activities presentation by Babak Beheshti was a great way to learn about different student activities and some useful tools and resources. His

Nick Nonis IEEE-GOLD presentation

presentation also provided insight on how to get funding for organizing events at schools. The IEEE-GOLD presentation by Nick Nonis was interesting and well organized. Nick distributed souvenirs among the members to encourage participation. This technique may also be used in other conferences and meetings to attract and recruit new members.

Overall the conference was a great learning and networking experience. I feel confident sharing the information and resources that I have learned and I look forward to contributing more in the years to come.

Mawmita Kahn received her Bachelors of Engineering degree in Electrical Engineering from The City College of New York. She is currently pursuing a Masters of Electrical Engineering degree at CCNY. During her junior and senior years, she served as the lead student researcher on Device Fabrication and Optical Characterization of II-VI Semiconductor Nanowires at CCNY Semiconductor Device Development Lab. Besides working at Con Edison since 2006, she has been involved with the Student Activities Committee of IEEE. She is a mentor for the Future City program to promote technological literacy and engineering to middle school students.

IEEE

Tappan Zee Subsection

presents

Dependable Sensor Networks
By Dr. Grace (Guiling) Wang
Assistant Professor
Computer Science Department - NJIT

Thursday, December 13, 2007 — 7:00PM

Polytechnic University, Westchester Campus
40 Saw Mill River Road — Hawthorne, NY 10532

RSVP: contact Henry Bertoni at hbetoni@poly.edu

0.1 Continuing Education Units (CEU) through the IEEE. The processing fee for recording the CEU is $15 payable by check made out to IEEE NY Section at the time of the event.

Information: www.ewh.ieee.org/r1/new_york/tz/

IEEE International Professional Communication Conference 2008, Concordia University, Montréal, Canada

Montréal 2008 — Opening the Information Economy — IPCC — July 13-16, 2008

Call for Panel and Paper Proposals

This conference seeks to "open" this economic model by examining the connections between communication practices and the products, practices, and services that constitute the information economy. The objective of such an examination will be to help attendees better understand and participate in the information economy as both contributors and consumers.

The conference will take place on the campus of Concordia University in Montréal, Canada, and will consist of paper presentations and panel discussions that focus on various communication, design, social, and cultural aspects of the information economy.

Suggested topic areas include but are not limited to the following:

- Establishing and assessing the value of knowledge work and knowledge products
- Information design, usability, and accessibility
- Virtual teams, online collaboration, and distributed models of work
- Cross-cultural communication, globalization, outsourcing, translation, and localization
- Legal policies and social issues related to the information economy
- Media selection and multimodality
- The role of and perspectives on teaching and training within the information economy
- Content management, open source software, single sourcing, and XML

Proposal Submission Process and Submission Dates: Send 1-2 page (250-500 word) proposals to IPCC2008@gmail.com by 15 December 2007.

In your proposal, please be sure to do the following:

1. State the focus/main topic of the presentation.
2. Provide an overview of the main points or ideas that will be covered in the presentation.
3. Discuss how the presentation enhances attendees' understanding of the information economy
4. For each presenter, include a 50-100 word biosketch and a contact email address

For conference or proposal related questions contact: IPCC2008@gmail.com

YOU ARE INVITED TO A JOINT MEETING
POWER ENGINEERING SOCIETY AND INDUSTRIAL APPLICATIONS SOCIETY NEW YORK & LONG ISLAND CHAPTER

TUESDAY, DECEMBER 18, 2007
Refreshments: 5:15 pm — Program: Starting at 5:45 pm

Integrated Sub Metering Panels/Switchboards
Presented by Lou Mane

Direct versus master metering for multi-tenant buildings

- The sub-metered building
- Advantages of sub-metering
- Sub-metering technology
- The integrated solution package – UL factory assembled sub metering equipment
- System benefits to developer/installing contractor
- Tenant billing cost allocations

Lou Mane is sales development manager at General Electric Company serving the residential property and commercial markets. Lou has worked at GE for the past eleven years in sales and marketing for energy and power management technology. Lou launched commercialization of GE Sub Metering equipment in Panel boards and Switchboards, in 2005.

All activities are posted on the PES & IAS Chapter Web Site: http://ewh.ieee.org/soc/pes/newyork/
Location: Con Edison 19th floor Management Dining Room, 4 Irving Place, NY, NY 10003
Nearest Subway: 4, 5, 6, L, Union Square Station

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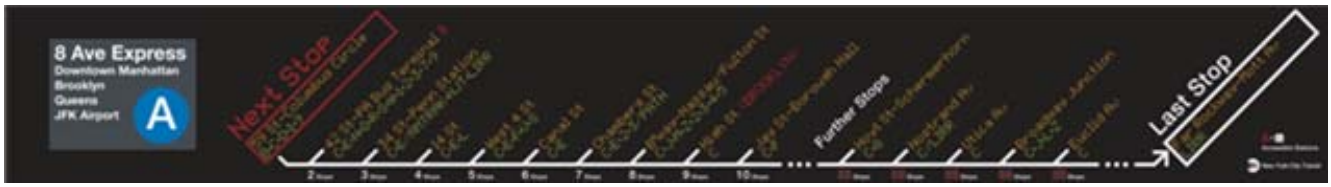

NYCT R160 FLEXIBLE INFORMATION & NOTICE DISPLAY

By Sana Mushtaq

The Metropolitan Transportation Authority - New York City Transit is the largest subway fleet operator and runs one of the most extensive and complex public transportation systems in the world. Each day more than five million people ride the NYCT subways annually about two billion.

The R160 New Technology trains are the latest and greatest addition to NYCT's fleet. The trains are equipped with several hi-tech customer amenities, including state-of-the-art air conditioning, three-phase a.c. propulsion, a regenerative braking system that returns power to the third rail, LonWorks-based train-line communications, automated passenger announcements, and most remarkably, from the rider's perspective, a real-time electronic strip map known as the Flexible Information and Notice Display or simply the FIND.

The FIND is a hybrid electronic display that incorporates a video screen (LCD Unit) and an adjoining LED strip which scrolls station names as the train progresses along the route. It also displays route maps that can be changed if a train switches routes. The outstanding feature about the FIND is that if a train switches routes (anywhere on the B division), the conductor can reprogram the FIND to show updated station and route information, unlike the current trains on the

R142 (2, 3, 4, 5, 6) and R143 (L) which are stuck with a single overlay map with bulbs no matter where the train runs.

The FIND displays route information and animated media messages received from a FIND-Controller (FIND-C for short) by using an LED unit and an LCD unit.

The Automated Announcement in the train and the FIND display are synchronized to provide consistent and unambiguous information to the riders.

The FIND LED display shows “This Stop” in a flashing box which transitions to the “Next Stop”. The display also includes the subsequent nine stops (beyond the Next Stop), and five additional "further stops", which vary along the line. The “Last Stop” is displayed at all times. Below the name of each station, the display indicates the number of stops to the station, transfers to other lines, if any, and whether the station is handicap accessible.

The LCD displays three types of media files. *Route Information* which provides the Route icon or identifier, the route name, borough information, and destination. The *Animated Media Information*, which is stored in MPEG2 TS file format, displays short advertisements of a maximum of 60 seconds. *Service Information* provides information on the disabling of the Public Address Announcement System as well as Emergency Messages.

The display change on the LCD is triggered by a number of actions, including the closing and opening of doors, the Public System Announcement for station arrival and next stop information, emergency announcements, load shedding (when the train is operating below capacity due to a limited power supply) and resetting of the train route.

The FIND-C sends display data to the FIND. There is only one FIND-C per unit (each unit in a train consists of either four or five cars). Route information is transmitted to each FIND-C device from the Communication Control Unit (CMC) via the E1 protocol network when changes are made to the settings for routes and/or stopping stations. After receiving this information, the FIND-C starts to prepare the display data for the new route. The CMC Unit transmits the FIND Automatic Announcement System Data Files to FIND-C before the train starts running, and both keep this information. Because this communication is carried out in advance, it is not necessary to transmit and receive large volumes of data over the low-speed Sign Network while the train is running and it is possible through this method to improve the FIND response. The CMC transmits route information to the FIND-C when the route settings are performed and transmits Service Event messages according to the train’s running status when the train is in motion. FIND-C updates the display information of FIND according to the received Service Event message. The Service Event message, containing the operating status of the train, is transmitted from the CMC via the E1 network to each FIND-C. The FIND-C updates the FIND Display according to the status information it receives. All master CMCs on the other unit(s) of the train transmit the same information to their respective FIND-Cs.

The FIND, with its full color LCD screen and comprehensive route information LED strip, will revolutionize the subway ride experience in terms of information completeness and clarity. All in all, the introduction of FIND is a quantum leap and breaks through the information barrier that has plagued the NYCT Subway system. The R160 (currently the N line) subway rider can expect complete and dependable route information on board the train at all times.

Sana Mushtaq was awarded the American Public Transportation Foundation's Louis T. Klauder (LTK) Scholarship Award in 2004. She earned her Bachelors in Electrical Engineering at Stony Brook University in 2005. She was the recipient of the H. Lee Dennison Valedictorian Award and the Award for Academic Excellence in Electrical Engineering at Stony Brook University in 2005. She was an intern with LTK Engineering while in school and was retained by them as a Project Consultant after graduation.

5TH INTERNATIONAL CONFERENCE ON INFORMATION TECHNOLOGY AND APPLICATIONS (ICITA 2008)

The ICITA secretariat would like to make this early announcement to IEEE and ACM members to inform that the **5th International Conference on Information Technology and Applications (ICITA 2008)** will be held in **Cairns,** Queensland**, Australia from 23 to 26 June 2008.**

The conference is an annual event and is recognized as one of the major series of conferences in Information Technology (IT). ICITA continues to retain its tradition of presenting a high quality conference. It will open up an opportunity for academics and industrial professionals worldwide to exchange their knowledge of the state-of-the-art research and development in information technology and applications, and to establish and extend professional networks. This conference addresses the fact that it is important that IT professionals reach out across narrowly defined subject areas and constantly acquire a global technical and social perspective. ICITA 2008 offers such an opportunity by facilitating cross-disciplinary and social gatherings.

For the conference call for papers and other details, please view the official web page at http://www.icita.org

NY IEEE Vehicle Technology Chapter (VTS)

By Sana Mushtaq

On the 3rd of October, 2007 the NY chapter of the IEEE VTS organized a dynamic presentation on Electromagnetic Interference (EMI) and Elec-

tromagnetic Compatibility (EMC). The event was conducted at the MTA Offices at 2 Broadway and saw a significant turn-out given the short notice at which the event was organized. The event presenter was Frank M. Grabowski, a senior consultant at Louis T. Klauder and Associates (LTK), one of the nation's premier consulting firms in railway procurement and engineering. Frank has more than three decades of experience working in the transit industry and is a leading authority in the field of vehicle propulsion and EMI and EMC as it ties into railways. The audience initiated a keen Q&A session at the end of the presentation. The session was also endorsed for one Professional Development Hour that P.E holder-attendees greatly benefited from. At the

Christopher Pacher presents Frank Grabowski with a certificate of appreciation after the presentation

close of the event, VTS Chair, Mr. Christopher Pacher, announced future activities of the society including its Future Technology forum, to be held at the same venue on November 7 which will feature high profile technologists like Peter leComte, CEO of *e-Traction Worldwide* and George Haikalis, President of *Rational Urban Mobility* expounding on enhancing hybrid technology and accelerated walkways amongst other topics of interest for the mobile-world enthusiasts.

PES Annual Awards Function

By Michael Miller

Every year the PES honors candidates both for Outstanding Engineer and those who have given unstintingly of their time without compensation to the Chapter in the form of ten-, twenty-, and thirty-year service awards. The purpose of the Outstanding Engineer Award Program is to publicly recognize professional and technical excellence and major accomplishments and contributions made by PES/IAS members. There are five categories for the Outstanding Engineer Award:

1. Outstanding technical contributions to the power engineering profession.
2. Outstanding professional and leadership contributions to the power engineering profession.
3. Significant contributions to the local community representing the power engineering profession.
4. Outstanding contributions in the area of power engineering education.
5. Service to the PES/IAS and/or IEEE.

John A. Michelson, chair of NY/LI PES/IAS Chapter (l) and Ajoy Das, P.E., Chairman of Awards and Secretary present Balvinder Blah with the Engineer of the Year Award (2006)

This year's Award Dinner was held on July 10, 2007, at which Balvinder Blah received the Outstanding Engineer Award for the year 2006.

This year, similar to last year, the Chapter added another function to this event, the awarding of a schol-

arship of $1,000 to promote power engineering. We hope to make this an annual occurrence. The Chapter noted the lack of Power Engineering Courses currently being given in the Colleges within our area. For the first time in 2006, to promote Power Engineering Courses, the Chapter initiated a scholarship to someone in the NY Metropolitan Area taking a credited Power Engineering Course with the recommendation of the Dean and/or their advisor.

Patricia Murphy receives her award from John Michelsen and Ajoy Das

Our first recipient was Patricia Murphy, from Brooklyn Polytechnic. Her sponsor was Professor Zivan Zabar. Patricia presented her paper on DC converters with an arranged slide show. She discussed the converter circuit arrangement and the firing circuits that were part of her project. She explained that DC converters are important in portable electronic devices such as cellular phones and laptop computers, which are supplied with power from batteries, because these electronic devices often contain several sub-circuits requiring a unique voltage level different than that supplied by the battery. Bob Dent, who was the PES Executive Director for many years, was the keynote speaker, and he spoke eloquently on the Present and Future of PES. He outlined changes in the organization brought about by the changing engineering climate and the discontinuation of the Winter Power Meetings, which are replaced by regional events scheduled according to the climate and interests of the industry. He forecast a resurgence of the Power Industry and a growth in membership of the Power Engineering Society mandated by new and expanded generating facilities that use alternate fuels aided by the growth of electric or hybrid vehicles. It was a most informative session and enjoyed by all who attended.

IEEE Senior Member Rob Dent

2008 IEEE SARNOFF SYMPOSIUM

April 28 - 30, 2008, Nassau Inn in Princeton, NJ

Since 1978 the IEEE Sarnoff Symposium has been bringing together a tremendous and rich diversity of telecom experts from industry, universities, and government. The popularity of the Sarnoff Symposium, again being held in the historic Nassau Inn located in the heart of downtown Princeton, continues to grow as the premier forum for researchers, engineers, and business executives in the North East drawing an attendance from all over the world. Beside the technical paper presentations the Symposium will include tutorials, student paper poster presentations, executive panels, and exhibitions. The Symposium is soliciting state-of-the-art research papers and tutorial proposals in the following areas of interest:

Communication Systems — Military Communications — Multimedia Applications & Networking — Optical Communications & Networking — Communications Theory — RF & Microwave Techniques — Wireless Communications — MIMO/Beamforming

Prospective authors are encouraged to submit a full paper for review. Only original papers that have not been published or submitted for publication elsewhere will be considered. The submission process is carried out through the EDAS conference management system (http://edas.info/) by December 21, 2008, in pdf format. The manuscripts must follow the IEEE two-column format with single-spaced, 10-point font in the text. The maximum paper length is five (5) pages. A sixth page may be accepted for an additional fee. Submission of a regular paper implies that at least one of the authors will have a full registration to the Conference and present the paper upon the acceptance of submission. All accepted papers (after review by experts in the field) will be presented in oral sessions, will be included in the 2008 IEEE Sarnoff Symposium proceedings and will be published through IEEEXplore. Student papers should be submitted to the Student Papers Chair [cwang@devry.edu]. Prospective tutorial presenters should contact the Tutorials Chair [mstriki@research.telcordia.com].

IMPORTANT DATES

Papers Due:	December 21, 2007
Tutorial Proposals Due:	December 21, 2007
Student Papers Due	January 28, 2008
Notification Tutorials Acceptance:	January 11, 2008
Notification Papers Acceptance:	February 15, 2008
Final Version Due:	March 14, 2008

THE NEW YORK SECTION & THE LONG ISLAND PES / IAS CHAPTERS OF THE IEEE ARE PLEASED TO ANNOUNCE REVIEW COURSES FOR FE AND PE EXAMS

Become a Licensed Professional Engineer and Secure Your Future

Beginning in Jan 2008, PERC (Professional Engineering Review Course) will be giving classes for the Fundamentals of Engineering exam (4/12) and, the Professional Engineering exam (4/11) to be held in April 2008.

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The decision to get your PE License is an easy one. PE'S earn 15% more over the course of their careers because of expanded business opportunities. In addition, promotional opportunities are available to Licensed PE's that are not available to others. It is also an excellent credential in the ever changing job market.

PERC Inc's review classes are designed to fully equip you to pass the Fundamentals and Professional Engineer Licensing Exams. Our courses teach problem solving methods, strategy and a strict adherence to NCEES exam specs.

All classes are taught by Professional Engineers who are practitioners in their fields. Enough theory is presented for background; then the focus is problem solving. Comprehensive course materials are distributed for each class.

STRATEGY SESSIONS

We talk about the reasons why candidates do not pass and build a plan to overcome these issues. This matters. **Please get a copy of the 7th Edition of the NCEES Reference Handbook prior to the first FE class. You can buy one from or download one from www.ncees.org.**

FUNDAMENTALS OF ENGINEERING EXAM

The Fundamentals of Engineering exam is 100% multiple choice and covers 10 major subjects. It covers what you learned in your first 2 years in college.

It is a limited reference exam where you use the NCEES Reference Handbook, and no other reference material of any kind. Please seriously consider getting one before classes begin. Purchase or download from www.ncees.org.

PRINCIPLES AND PRACTICES EXAM

The Principles and Practices Exam, or PE exam, as it is commonly called, is similar to what you studied in your final two years of undergraduate study.

Whereas the FE exam was straight forward, the questions on the PE exams will often require some judgment to establish a starting point for their solution.

The PE exams for the review courses offered (Civil, Electrical, and Mechanical) are eighty multiple choice questions. These exams offer a breadth exam in the morning session and a depth exam in the afternoon session. The breadth exam is the same for all examinees. The depth exam is selected by the examinee. More detail and discussion concerning this during the strategy sessions. Please do not miss them.

The year 2008 marks 32 years of service to the Engineering Profession by PERC Inc.

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Professional Engineer Review Course

Review Course for the FE Examination

Statics	2 classes	Electrical Circuits	3 classes
Mechanics of Materials	2 classes	Thermodynamics	2 classes
Fluid Mechanics	2 classes	Chemistry	1 class
Dynamics	2 classes	Economics	2classes
Mathematics	2 classes	Material Sciences	1 class
Probability & Statistics	1 class		

	Location & Day	Strategy	Last Class
On Long Island	Residence Inn by Marriott, Plainview NY (Tue & Thu)	1/17/2008	3/27/2008
In NYC	Con Edison Building, 14th Street and Irving Place, NYC Room 1425 (Mon & Thu)	1/14/2008	3/31/2008
Westchester	33 West Main, Room 305 Elmsford, NY (Tue & Thu)	1/15/2008	3/25/2008

The Fundamentals Course is for the General exam and uses the 7th Edition of the NCEES Reference Handbook. Please get one from ncees.org, prior to the strategy session.
Strategy Classes are from 6:00 to 7:30pm, all others from 6:00 to 9:00pm
Due to security requirements at the Con Ed building registration must be completed by 1/12/2008

Review Course for the PE Examination
Electrical Engineering

All multiple choice, no choice, breadth / depth

Power	6 Classes	Electronics	2 Classes
Automatic Controls	1 Class	Digital	1 Class
RF Transmissions	1 Class	Computers	2 Classes
Power Electronics	1 Class	Data Communications	1 Class

	Location & Day	Strategy *	Last Class
NYC	Parsons Brinckerhoff, 1 Penn Plaza, 2nd Fl, (8th Ave. & 33rd St.) (Thu & 2 Tue in March)	1/3/08	4/3/08

* Strategy Classes, 6:00 to 7:30 pm, All other classes are from 6:00 to 9:00 pm

Due to security requirements at 1 Penn Plaza

registration must be completed by 1/2/08 by 4:00 pm

Late registration will not be admitted until the 2nd class session.

Review Course for the PE Examination
Civil Engineering

All multiple choice, no choice, breadth / depth

Structures	3 classes	Hydraulics	2 classes
Soils	2 classes	Waste Water Treat-ment	1 class
Concrete	2 classes	Water Treatment	1 class
Transportation	2 classes	Surveying	1 class

	Location & Day	Strategy	Last Class
In NYC	Con Ed Bldg. 14th St. & Irving Pl. NYC Room 1425 (Tue)(3 Thu in Mar)	1/08/08	4/3/08
West-chester	33 West Main 4th Floor Conference Room Elmsford, NY (Wed) (2 Mon in April)	1/2/08	4/2/08
On Long Island	Residence Inn by Marriott, Plainview NY (Thu) (2 Sat in Feb)	1/10/08	4/3/08

Strategy Classes, 6:00 to 7:30 pm All other classes are from 6:00 to 9:00 pm

Due to security requirements at Con Ed building,

registration must be completed by 1/08/07

Review Course for the PE Examination
Mechanical Engineering

All multiple choice, no choice, breadth / depth

HVAC, Combustion	1 Class	Stress Analysis	1 Class
Heat Transfer, Steam	1 Class	Machine Design	1 Class
Gas Dynamics	1 Class	Vibrations	1 Class
Fluid Mechanics	2 Classes	Kinematics and Dynamics	1 Class
Economics	1 Class		

	Location & Day	Strategy *	Last Class
NYC	Parsons Brinckerhoff, 1 Penn Plaza, 2nd Fl, (8th Ave. & 33rd St.) (Wed)	1/23/08	4/9/08

* Strategy Classes, 6:00 to 7:30 pm, All other classes are from 6:00 to 9:00 pm

Due to security requirements at 1 Penn Plaza, registration must be completed by 1/2/08 by 4:00 pm

Late registration will not be admitted until the 2nd class session.

Course Location (please circle one)
Long Island, NYC, Westchester

Tuition (Includes non-refundable $30 registration fee)
Fundamentals of Engineering Review…….$725
PE Review for Civil Engineering…….. $625
PE Review for Mechanical Engineering……..$595
PE Review for Electrical Engineering……..$625

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2008 NY Section Awards Dinner Dance

HONORING THE SECTION'S AWARDEES

WILL BE HELD ON

SATURDAY EVENING, FEBRUARY 9, 2008

This year, our dinner dance (black tie optional) will be held in the beautiful Trianon Ballroom, located on the third level (coat check is on the second) of the New York Hilton Hotel and Towers at Rockefeller Center, 1335 Avenue of the Americas (between 53rd and 54th Streets).

Festivities will begin at 6:30 P.M. with crudités and cocktails in the Petite Trianon. Here we will have a chance to relax, get acquainted and reacquainted.

You will have the opportunity to pamper your palate with a choice of either a succulent meat or a delicious fresh fish steak. Each gourmet entree will be accompanied by an appetizer, salad and dessert. There will be a brief awards ceremony after dinner and dancing to the sounds of the Dance Fever Orchestra.

For those wishing to spend the night, hotel reservations may be made on-line at various web service providers or directly with the hotel at 212-586-7000. There are no special arrangements made for parking.

Reservations for the affair may be made by completing the coupon below and forwarding it to William Perlman at the address indicated before January 28, 2008. Corporate supporters: Table of 10 at $1850.00

A special non-transferable rate of $100 for each ticket is available to IEEE members.
Note that this rate is for the attending IEEE member and a guest only.

Organizations wishing to be Industry Supporters or non-IEEE members may obtain additional information and cost by contacting: Ralph Tapino (718) 761-5104 / raltap@aol.com or William Perlman (973) 763-9392 w.perlman@ieee.org

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South Orange, NJ 07079

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No. Of Tickets @ $100.00 _____

No. Of Tables @ $1850.00_____

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