

The IEEE



# MONITOR

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*Prosperous,  
Happy & Healthy  
New Year*

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# The IEEE Monitor

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You can always find the Monitor online in PDF format at:

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The NY Monitor needs reporters and proof readers. You will have a chance to attend and report on interesting meetings of IEEE Societies and interview masters in your field of study. [nymonitor@ieee.org](mailto: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](mailto:NYMonitor@ieee.org)

**Submission deadlines**

Issue	Deadline
February	December 19, 2006
March	January 19, 2007
April	February 19, 2007
May	March 19, 2007

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.



**Message from  
Stanley Karoly**

**O**n Thursday November 9, 2006 I attended the WIE/GOLD/PACE "Signals" Networking Mixer held at the Village Pourhouse. First, I would like to thank Darlene Rivera, Nick Nonis and Matt Nissen for their hard work arranging this excellent function and for inviting me as 2007 NY Section Chair.

During the evening I met many people; including some who are not engineers but who are interested in either what engineers do, how they do it, or they just wanted to attend this function and meet/network with technically minded people. I believe there were at least thirty people in attendance.

At some point during the evening I was asked to say a few words, which I did; I spoke mainly

about how honored and grateful I am to hold the Chair of the IEEE New York Section for 2007 and why I believe that all Electrical Engineers should belong to the IEEE. I pointed out the professional benefits of participating in New York Section and other IEEE activities.

To be brief, Electrical Engineers and non EE's who are IEEE members have no greater venue for sharing experiences and learning about others' professional experiences than through IEEE functions and activities. I am a strong believer in "face to face" meetings as the best way to share and communicate. I want to encourage all IEEE and especially New York Section members to attend our New York Section Chapter, Affinity Group and Section Activities meetings and functions.

As the year 2007 is upon us I would like to take this opportunity to wish everyone a Prosperous, Happy and Healthy New Year.

I look forward to hearing your comments, positive or negative, about New York section functions, especially about ways to improve them and make them more attractive and interesting. You may e-mail me directly at [stkar@ieee.org](mailto:stkar@ieee.org) or send them to the editor at: [nymonitor@ieee.org](mailto:nymonitor@ieee.org). Thank you for listening. ■

**Calendar of Events** (mark your calendar)

**Wednesday, January 10, 2007 – 12:00pm – 2:00pm**  
NY Section ExCom Meeting

**Location:** Con Edison, 4 Irving Place New York, NY 10003, Room 1549S

**RSVP required:** Paul Sarinaltori [sartorip@coned.com](mailto:sartorip@coned.com) No walk-ins allowed for security reasons!

**Saturday, January 20, 2007 10:00 AM — 4:30 PM**  
Future City 2007 Regional Competition

**Location:** Polytechnic University, 6 Metrotech Center, Brooklyn

Volunteers wanted for team registrations, setup, model and presentation judges etc.

**Contact:** Karen Armfield if interested e-mail: [karen.armfield@dmjmharris.com](mailto:karen.armfield@dmjmharris.com)

**Tuesday, January 23, 2007 6:00pm – 8:00pm**  
Women in Engineering (WIE)

**Dr. Mary Lanzerotti:** "Professional Development for Engineers and Scientists"

**Location:** MTA, 2 Broadway, New York, NY 10004

**RSVP required:** By Thursday, January 18, 2007, Darlene Rivera at [drivera938@ieee.org](mailto:drivera938@ieee.org)

**No walk-ins allowed for security reasons!**

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## M PAC – WIE Conference 2006

Reported by Amelie Gong

On October 14 and 15, 2006, the IEEE Baltimore Section hosted the first annual Member Professional Awareness Conference (M-PAC) – Women In Engineering (WIE) Conference at the Embassy Suites in Baltimore, Maryland. The two-day conference - sponsored by IEEE-USA, IEEE Region 2, IEEE Philadelphia Section, IEEE WIE Committee, IEEE Southern New Jersey Section and IEEE WIE Affinity Groups — was packed with informational, educational and interactive presentations, panel discussions, workshops and networking events. Carole Carey, IEEE Region 2 WIE coordinator, PACE Baltimore Section Chair, and Marc Apter,



Group photo after the conference on the 2nd day: Carole C. Carey, Chair of the 2007 Regional MPAC-WIE Conference, standing in center back (dark long hair), flanked by officers, speakers and attendees. The young people are students from various universities such as: Temple University, University of Cincinnati, Vanderbilt, Citadel in Charleston.

Past Vice President of IEEE Regional Activities, IEEE Region 2 Past Director opened the conference.

Celia Desmond from IEEE Canada was the Keynote Speaker. She is the president of World Class Telecommunications, Vice President of IEEE Technical Activities, and Vice President of Member Relations of the IEEE Engineering Management Society. The title of her speech was “Skills for Working in Today’s Competitive World in the Telecomm Environment”. Desmond first showed the history of the Telecommunication industry and its changes in recent years. She then talked about the skills that are essential to survive in the modern telecomm environment. According to

Desmond, future telecomm engineers have to be mentally flexible so they can easily adapt to new technologies. In addition they should be equipped with managerial, interpersonal and communication skills.

The next speaker, Wendy Y. Carter, Ph.D., introduced the “*Practical Steps to Completing a Master’s Thesis or Dissertation*”. Dr. Carter received a B.A. and a M.A. from Stanford University, a M.S. from Carnegie Mellon University and a M.S. and a Ph.D. degree from University of Wisconsin-Madison. She developed a cd-rom called: TADA – Thesis and Dissertation Accomplished.

Research shows that many graduate students do not graduate because they don’t finish the required thesis or dissertation by the deadline. Dr. Carter discussed methods and ideas that can help to keep graduate students focused on finishing their thesis or dissertation. Her basic building block to success is planning. Set a realistic deadline and count backward to see how many days you have available, then make a plan with a time table and stick with it. Moreover, Dr. Carter reminded the audience that there are many resources free or for a fee that can help them to succeed.

During a break, I talked to Lisa Huff, a Technical Manager with Nexans Inc., who remarked that both Desmond and Carter emphasized managerial and other non technical skills that many students lack when they graduate. Huff mentioned that, while many companies don’t expect these skills from employees with Bachelor degrees, they do expect an engineer with a graduate degree to have them.

The conference resumed with a presentation from Carole Carey. Carey discussed the role of WIE and explained how to start a WIE affinity group. She also shared a personal story about how she helped Japanese women engineers to start a WIE Affinity Group while she was in Japan as a Mike Mansfield Fellow. When Carey arrived in Tokyo, there were no women engineers in the IEEE Japan section, and the majority of IEEE members there did little to help her locate female engineers. Despite the numerous obstacles she faced during the process, Carey succeeded in helping the Japanese women engineers to form an organization to support each other. Currently the Japanese WIE Affinity Group is one of the most active IEEE WIE Affinity groups in the world.

Following Carey's presentation was a panel discussion with title "What Do You Want From a Local WIE Group?" The panel included Holly



Exhibit table from the Baltimore Section on the Robot Challenge Project. Left to right: Brian Sequeira, Past Chair Baltimore (2005) Neville Jacobs, the Education Chair for Baltimore, with unidentified participant.

Cyrus, Southern New Jersey WIE Chair, Dana Whicker, former Southern New Jersey WIE Chair, Mary Ellen Randall, IEEE WIE Committee Chair, Danielle Obuchon, Past NoVA/Wash WIE Chair, and Tina Kohler, Baltimore WIE Chair. The discussion answered questions that had been collected earlier from participants. The panel also shared methods that different WIE Affinity groups in Region 2 use to reach out to current and potential members. For example, the Southern New Jersey WIE works with local Girl Scout groups to introduce engineering to the young girls.

The first day of conference concluded with a Networking reception and dinner where the discussions continued. Among others I met Neville Jacobs, who is the Baltimore Section Education Activities Director. After retiring from the Linthicum aerospace plant of Westinghouse Electric Corporation, Jacobs introduced a statewide work-study Robotics Program to local high school seniors. The program simulates real engineering projects. Participating students have to prepare a written project proposal; build and demonstrate the capabilities of the robot they designed; give an oral presentation to explain the whole process, and answer questions from a panel of judges. This program gives high school seniors, many of them girls according to Jacobs, an inside view of the career of an electrical engineer.

At the end of dinner, the last speaker of the day,

Dr. Ruth A. David gave her speech "Securing the Nation: The Need for a Systems Approach." Over the years, Dr. David has provided service at the Sandia National Laboratories, the Development Testing Center, the Central Intelligence and other Homeland Security organizations. According to Dr. David, numerous techniques and methods to detect terrorist activities and to provide homeland security in various aspects, had been developed prior and after 9/11. However, many of these techniques and methods were never put into use because of politics and because there is a lack of leadership in system thinking.

After Dr. David's presentation, Amarjeet S. Basra, P.E. and William P. Walsh, Jr., the two candidates running for the IEEE Region 2 director, gave their campaign speeches and Carole Carey presented certificates to several members of the conference committee to thank them for making this conference a success.

Day two started with Kevin Wilson, a Diversity Manager in Northrop Grumman Corporation. He presented surprising statistics on the demographic changes in the United States and various stereotypes and assumptions in a typical office. He suggested that providing a comfortable diverse work environment is not only important for individual employees, but also for a company's survival. Many participants strongly agreed with this premise.

The next presentation, "Gender Influences in Engineering," was given by Mary Ellen Randall. She first discussed the focus of WIE Committee, including the outreach programs, networking and mentoring opportunities that help to increase women's participation in engineering and IEEE. According to Randall, the 30% non-female members of WIE pay an extra fee in their IEEE membership to support their daughters, their spouses, or their sisters who are, or will be engineers.

This conference gave me many ideas to improve the function of the New York Section WIE. Moreover, it categorized the kind of skills I need for my professional development. I look forward to the next MPAC-WIE conference. ■

*Photographs by Carole C. Carey, Chair, 2007 Regional MPAC-WIE Conference, Past Baltimore Section Chair (2001); Current IEEE-USA PACE Chair. Baltimore Section and Region 2 WIE Coordinator.*

## IMAPs Garden State Chapter Fall Symposium Draws a Crowd

Reported by David Seeger

The Garden State Chapter of the IMAPs society recently held its fall symposium at IBM's T. J. Watson Research Center in Yorktown, NY. Attendance for this symposium was up significantly from the spring meeting and those who attended gave overwhelmingly favorable responses to the evaluation questionnaire.



Presenters at the IMAP's Fall Symposium from left to right: Sung K. Kang, Steve Minich, Robert Rodriguez, David Tuckerman, Lorenz Valdevit, Jae-Woong Nah and Brian Wheelock

A quote from one of the attendees summed up the technical program as 'one of the top technical programs I've seen rivaling major conferences.' A 'special events' section included tours of various labs at Watson including a visit to the Blue Gene supercomputer platform, the industry-leading high performance computer line that currently holds eleven of the top twenty positions of the fastest supercomputers in the world. Exhibits from nearly twenty vendors from regional industries also drew many attendees as well as some IBM'ers that work at Watson and were 'wandering by.'

The symposium featured eight technical presentations from the industry from as far away as California, though most presenters represented regional companies and universities. Topics ranged from the challenges facing the industry as it migrates from ceramic to organic packages as well as a variety of topics including a fascinating discussion on nanocomposites for packaging, characteristics of solder bump solidification, a new backplane connector and an excellent review of 3D packaging and its importance in the future of microelectronics. Technical talks held at this fall's symposium are posted on the web site

([www.imaps-gs.org](http://www.imaps-gs.org)).

The spring symposium will return to the traditional location at Bell Labs in Murray Hill, NJ. See [www.imaps-gs.org](http://www.imaps-gs.org) for updates. ■

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<http://www.ieee.org/nymonitor>

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## A call to IEEE Life Members in the New York area

by Amitava Dutta-Roy

Do you know that there are almost 350 of us in and around NYC? We have the e-mail addresses of just 150 of Life Members but only 100 of them seem to work. Our appeal to you is that you should get involved with the IEEE. It is the largest professional society in the world and it is ours! Give us your suggestions. You can contribute a great deal to the IEEE and to the community around us. If we don't take the lead who else will? What you can do almost immediately!

Send your e-mail address to:

[michaelamiller@optonline.net](mailto:michaelamiller@optonline.net) or

[a.dutta-roy@ieee.org](mailto:a.dutta-roy@ieee.org)

You may have noticed that Michael is the chair of the Life Member Group 2007 Committee in NYC and Amitava will act as the Secretary. E-mail is the sure-fire way to inform you of our activities. So, please act now and send a test message.

Once we get the pipeline for the exchange of e-mails sorted and cleaned up we would like to hear from you about your suggestions about bringing up our group to full speed.

Please write to us about:

- Topics concerning the emerging technologies (e.g., new modes of communications and wind power), and social (e.g., technologies used in improvement of literacy and health) and environmental (i.e., improvement of the quality of air and water) issues.
- Speakers who you recommend (including yourself) and some corporate sponsors that will be able to provide space for an event.
- How we can motivate young people to follow a career in engineering and attract them to the IEEE.

We think that we can do a lot and in the process maintain our "youth." If we don't contribute to the society then who will? ■

**IEEE WIE Presentation**  
**Professional Development**

**Dr. Mary Lanzerotti**

Research Staff Member — IBM Thomas J. Watson Research Center

**MTA Building 2 Broadway @ Bowling Green, New York**

Closest Train: 4,5 lines Nearby Trains: 1,W, J and Z lines

**Tuesday, January 23, 2007**

**6:00PM-8:00PM**



Dr. Mary Lanzerotti, will speak about steps engineers and scientists can take to improve their professional development. These steps have been identified by members of the American Physical Society Committee on Careers and Professional Development (CCPD) and are presented in the first **Professional Development Resource Guide** that lists resources identified as important for the professional development of today's engineers and scientists.

Dr. Lanzerotti is a Research Staff Member (VLSI Design Department) at the IBM Thomas J. Watson Research Center. She received an A.B. degree (summa cum laude) from Harvard University in 1989, a M.Phil. degree from University of Cambridge in 1991, an M.S. degree from Cornell University in 1994, and a Ph.D. degree from Cornell University in 1997, all in physics. She joined IBM in 1996. Her current research interests are the design and implementation of on-chip interconnections for low-power, high-performance, high-yield chips. Dr. Lanzerotti is a member of the IEEE-Solid State Circuits Society, IEEE-Lasers and Electro-Optics Society, IEEE Women in Engineering, and American Physical Society. She is a Senior Member of the IEEE.

**RSVP to [drivera938@ieee.org](mailto:drivera938@ieee.org) by Thursday, January 18, 2007**

No walk-ins allowed for security reasons!

I will bring technology and business together.

I am a PolyThinker.

Join us  
for a graduate  
enrollment night.

**Tuesday, January 16th 6-8 p.m.**  
Westchester Graduate Center

**Wednesday, January 17th 6-8 p.m.**  
Brooklyn MetroTech Campus

**Thursday, January 18th 6-8 p.m.**  
Long Island Graduate Center

- engineering
- computer science
- management
- tech writing & digital media
- biological & chemical science

Please RSVP

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online: [www.poly.edu/graduate](http://www.poly.edu/graduate)

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# THE NEW YORK SECTION'S 2007 AWARDS DINNER DANCE

**The 2007 NY Section Awards Dinner Dance honoring the Section's Awardees will be held on Saturday evening, February 10, 2007.**

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 February 1, 2007. Corporate supporters: Table of 10 at \$1850.00

**A special non-transferrable 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  
William Perlman (973) 763-9392 / w.perlman@ieee.org**

### MEMBER RATE RESERVATION FORM

Send to: William Perlman  
267 Richmond Avenue  
South Orange, NJ 07079

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