

Technologist

Includes information for the Syracuse Sections of the IEEE, NSPE, and the CNYAPG.

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SAS - Syracuse Astronomical Society	Stu Foster	Pres.	492-9118
SBE - Society of Broadcast Engineers	Vincent Lopez	Pres.	472-6800
SFPE - Society of Fire Protection Engineers	Dennis McCarty	Pres.	716-599-4238
SME - Society of Manufacturing Engineers	Sam Waite	Chair	432-0700
SWE - Society of Women Engineers	Susan Weaver	Pres.	432-0506

The Technology Alliance of CNY has been reporting on technical excellence since 1903.

Vol. 7 No 10

June 2005



The Syracuse Section of the Institute of Electrical and Electronics Engineers www.ewh.ieee.org/r1/syracuse



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The Syracuse Section of the National Society of Professional Engineers www.CNYPE.org



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The Central New York Association of Professional Geologists www.CNYAPG.org



HAVE A GREAT SUMMER!

The Technology Alliance of Central New York www.TACNY.org



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Syracuse Section ✶ Syracuse, New York

IEEE/LM MEETING NOTICE

Institute of Electrical & Electronic Engineers, Syracuse Section

IEEE – all Life & Section Members, Spouses & Guests

When: Tuesday, June 14, 2005

Topic: On the Investigation of Electrical Fires
(A type of Forensic Engineering).

Speaker: Dr. John Buchta, JDR Systems
(and formerly with GE Electronics Lab)

Summary: John will discuss his 14 years experience investigating fires --- actually or suspected to have been caused by electrical malfunctions --- and attempt to place these investigations in proper context with respect to the cause-of-fires studies. He will show a number of photographs of fire scenes which he or his colleagues at JDR Systems have examined.

DATE/TIME/PLACE: Tuesday, June 14, 2005 at 10 AM till noon at the Greater Syracuse Business Center, 1201 East Fayette Street, Syracuse.

Our usual coffee, tea & doughnuts and conversation at 10 AM followed by the speaker at about 10:20 AM. Also we will provide sandwiches at noon for all who would like to participate in LM program planning for 2005/06.

(Questions: call George Kirkpatrick 458-0082 or e-mail: georgekirk@ieee.org)

BOOKMARK THIS!

Check out our Section Calendar at <http://www.ewh.ieee.org/r1/syracuse/cal.htm> for additions, updates and directions to meetings. This includes meetings that we have not been able to add to the Technologist due to scheduling. The Syracuse Section will add meetings for other organizations where IEEE members are invited and link to your web page. Don't have a web site for your organization? We will include the information on ours for related technical societies. Contact Don Herres at d.herres@ieee.org.

Those members who need to CHANGE CONTACT INFO on file with the IEEE, including e-mail addresses, should do so at:
<<http://www.ieee.org/membership/coa.xml>>

IEEE

CONTACT INFORMATION

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IEEE Regional Activities

SYRACUSE SECTION Meeting Information

Our Executive Committee Meetings are held on the first Friday of the month and are open to all members. Minutes are available online at <http://www.ewh.ieee.org/r1/syracuse/meet.htm>

Check out the all new Syracuse Section website:
<http://www.ewh.ieee.org/r1/syracuse/>

1. **President-Elect Candidates Field Questions**
2. **Ask the Candidates**
3. **Setting Your Career Straight**
4. **Magnetic Disk Memory Commemorated With Milestone Award**
5. **Geekster Rap Takes on Engineering**
6. **Samsung, Grainger Foundation Sponsor IEEE Awards**
7. **Electric Ship Symposium Explores New Ground**
8. **New Proceedings Highlight Advances in Image Processing**

1. President-Elect Candidates Field Questions With the race for the 2006 IEEE President-Elect under way, it's time the voters got to know more about the candidates. So The Institute spoke on a range of personal and professional topics with first-time candidates Leah Jamieson and Gerald Peterson. Read their responses at <http://boldfish.ieee.org/u/309/02367415>

2. Ask the Candidates Here's your chance to ask the President-Elect candidates running in IEEE's election this year questions on issues that concern you about the IEEE. Send questions you'd like The Institute to ask at a Candidates Night event on 21 June, hosted by the IEEE Philadelphia Section. Email them to <<mailto:institute@ieee.org>>

3. Setting Your Career Straight Although a large percentage of engineers typically report general satisfaction with their jobs, only a minority of them say they feel their talents and energies are fully engaged. Two career-planning guides—one online, the other a large, bound workbook -- have just been released by the IEEE-USA Employment and Career Services Committee to help members achieve a greater personal fulfillment in their work.

4. Magnetic Disk Memory Commemorated With Milestone Award Before magnetic disk storage was developed, looking for the right data or programs might mean searching through miles of magnetic tape or stacks of coded punch cards. The random-access magnetic disk drive changed all that. In recognition of this great leap forward, the IEEE Board of Directors has named the first commercially available magnetic disk drive an IEEE Milestone in Electrical and Computer Engineering.

5. Geekster Rap Takes on Engineering Member Rajeev Bajaj has written and produced what is quite possibly the world's first rap album dedicated to engineering: "Geek Rhythms." With it, he hopes to attract high school kids to engineering as a "cool" profession.

6. Samsung, Grainger Foundation Sponsor IEEE Awards Samsung Electronics Co., in Seoul, will become the new sponsor of the IEEE Edison Medal, starting in 2006. The medal has been presented annually since 1904 to an individual for achievement in electrical science, electrical engineering, or electrical arts. The Grainger Foundation, in Lake Forest, Ill., which funds a variety of initiatives to expand the power engineering field, has agreed to cosponsor the IEEE Nikola Tesla Award. The annual award recognizes an individual or team that has made outstanding contributions to the generation and utilization of electric power.

7. Electric Ship Symposium Explores New Ground Oceangoing vessels, with their combined need for power, speed, maneuverability, and carrying capacity, are the focus of the IEEE Electric Ship Technologies Symposium, to be held from 25 to 27 July in Philadelphia.

8. New Proceedings Highlight Advances in Image Processing The newly published proceedings from the 11th IEEE International Conference on Image Processing consolidate current research findings in theoretical, experimental, and applied signal processing. From traditional image processing to evolving multimedia, image, and video technologies, the papers in this volume assess technology highlights that advance the field of image processing. For more information, or to purchase the proceedings, visit ShopIEEE

Members who need to CHANGE CONTACT INFO on file with the IEEE, including email addresses, should do so at: <http://www.ieee.org/membership/coa.xml>

Members who need to UPDATE THEIR IEEE EMAIL ALIAS, may do so by going to: <http://elecomm.ieee.org>

Or if you need assistance with your membership, you may contact IEEE Member Services by email at member-services@ieee.org or by telephone +1 800 678 IEEE (+1 800 678 4333)

TACNY

Sweet Lecture

Tuesday, June 14, 2005 6pm

DNA Breakthroughs due to Technology and Engineering Advances

Speaker: Dr. Rita Calvo

Sponsored by IEEE and TACNY

Location: C&S Companies

Contact: Mary Reidy 315.428.5326

mary.reidy@us.ngrid.com

Please respond with reservations via email no later than Monday, June 13th. Thanks

Cost: Free

Reminder



Keep an eye on our website over the summer for any news, meetings, or other information:

<http://www.ewh.ieee.org/r1/syracuse>

CENTRAL CHAPTER NY STATE SOCIETY OF PROFESSIONAL ENGINEERS

NEWSLETTER

JUNE 2005

President's Message - Mike Hayes, PE

As I stated in last month's newsletter, we are planning lunch meetings offering one PDH for each meeting starting this September. These meetings are tentatively scheduled for the third Tuesday of the month, but this is subject to change. I would appreciate any suggestions you have regarding these presentations. Our goal is to have local meetings and seminars sponsored by us, as well as other professional groups, that offer at least 12 PDHs each year.

We will have the 2005 Central New York Engineering Expo on Monday, November 14, 2005 at the Holiday Inn in Liverpool. We'll start putting information on our web site as it becomes available. Six PDHs will be offered again this year.

Our Expo committee is looking into ways we could accept credit cards for this event without spending a fortune to do so. The "per charge" costs are relatively reasonable. The setup fees are high for a once or twice a year event, like the Expo. We don't generate enough revenue from our monthly meetings to justify the monthly maintenance fees either. We hope to find a lower cost alternative that will allow us to provide this service.

We continue to post continuing education opportunities that are available as soon as we learn about them. We will also post information about upcoming meetings on the web site, probably at least two weeks before you see the announcements in the newsletter. So, please check our web site, <http://www.cnype.org> frequently.

The NSPE Future Directions Task Force (FDTF) was formed to combat declining NSPE membership. The FDTF has developed its ideas and will present their recommendations for action at the July 2005 Board of Directors meeting. The latest briefing and discussion Power Point presentation is posted on our Chapter web site. It appears to me that the thrust of the FDTF report is to recommend ways to make NSPE more relevant to PEs and Intern Engineers and provide better service to NSPE members. Some of the highlights include a new mission statement, new vision statement, and revised governance structure at the national level. There are no changes in governance structure at the local level.

The FDTF goals include:

- NSPE/State Partnership ("State-Centric")
- Provide Value to Members
- Membership Growth

On balance, I think the FDTF has some pretty good ideas, but I recommend that you read the FDTF briefing on our web site and decide for yourself.

If you're interested in **crime scene investigation (CSI)** science, I invite you to attend the Joint IEEE/TACNY Sweet Lecture on DNA breakthroughs and advances due to engineering by Dr. Rita Calvo. **The meeting is open to the public and is free.** The meeting will be at C&S Engineers on Tuesday, June 14, 2005 at 6 PM. Dinosaur Bar-B-Que food will be provided. There is more information in the IEEE portion of this issue of the newsletter.

Since this is the last newsletter until September, I'd like to wish everyone a good summer. Enjoy the good weather during the short time we have it!

CALENDAR

Date/Time	Topic	Speaker	Location	Cost	Contact
6/27/05* 5:30 PM (Joint with CSI & AIA)	Last Hour Before Bid Opening	Panel Discussion	Craftsman Inn, Fayetteville	\$25.00 Includes dinner	RSVP to Frank Carleo (Robson and Woese) 315-445-2650 fcarleo@robsonwoese.com
11/14/05	CNY Engineering Expo 2005	Various	Holiday Inn, Liverpool	TBD	Mike Hayes 315-455-2000 mhayes@cscos.com

*Please note the revised date, which is still tentative, for the joint meeting with CSI (in June, instead of March 2005)

THANK YOU

- We continue to seek donations for your Chapter's Scholarship Fund. The fund is supported by contributions from firms and individuals who take an active interest in the future of our profession. Current contributors include:
 - Associated Builders & Contractors
 - Blasland, Bouck and Lee
 - C&S Engineers Inc.
 - Clough Harbour
 - Klepper Hahn & Hyatt, PC
 - Microwave Filter
 - Ram-Tech
 - Stearns & Wheler
 - Syracuse Research Corporation.
 - Syracuse Thermal Products

Each year the Central New York Chapter of the New York State Society of Professional Engineers (CNYSSPE) awards scholarships to worthy High School Seniors who will be going to college in an engineering or technical discipline. These young people are judged by an impartial algorithm based on their academic background, scholastic achievements and SAT scores. We are actively soliciting donations from local firms and individuals to support the scholarship fund. Public attribution and appreciation will be publicly expressed in all news releases, The Technologist newsletter and at the annual "Celebration of Technology" dinner. For additional information please contact Carl Fahrenkrug, carl-f@microwavefilter.com, 438 4722

Thank you in advance for your generosity. Together we can encourage more Central New York young people to choose engineering as a career. Your donation check should be made out to the CNYSSPE Scholarship Fund and sent to:

CNYSSPE c/o Microwave Filter Company, Inc.
6743 Kinne Street
East Syracuse, New York 13057
ATTN: Nancy Young

WEBSITE

Check us out at <http://www.cnype.org/>. The site is kept up to date and includes the latest on meetings, continuing education and other details of our many professional activities. It includes a complete and updated section on cpc. **RIGHT NOW, IT DETAILS JUNE OPPORTUNITIES FOR PDHs/CEUs IN SYRACUSE, ALBANY AND SULLIVAN AND WESTCHESTER COs.**

BOARD OF DIRECTORS MEETINGS

NSPE members are most cordially invited to attend all board meetings. Meetings are tentatively scheduled for noon on the first Thursday of each month, However the May meeting will be on Thursday May 19. Those wishing to attend should contact Mike Hayes: (315) 455-2000 ext. 384; m.hayes@ieee.org to confirm time and date.

CENTRAL NY CHAPTER - OFFICERS AND DIRECTORS (2005 - 2006)



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Director	Richard	Simberg	(315)245-4661		nbdick@hotmail.com

Officers elected annually. Directors elected for three year terms.

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Email Contact Information

Emails addressed per the following list will automatically be forwarded to the appropriate officer or committee person:

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pastpresident@tacny.org
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teacherawards@tacny.org

Website of the Month

The Center for Teaching History with Technology aims to help K-12 history and social studies teachers incorporate technology effectively into their courses. The Center provides a multitude of free online resources as well as workshops and consultation services.

Go to: <http://thwt.org/links.html>

Outstanding Teacher Awards

(Correction...)

As reported here last month, five terrific local teachers were honored at the Ramada Inn on April 29th. Unknown at press time was the fact that both groups of students slated to entertain (Nottingham High School *Jazz Ensemble*, and *In A Chord*, a choral group from Jamesville-DeWitt High School) would have a change in plans at the last moment and not be able to perform.

The awards committee found an excellent substitute at the 11th hour. Music was provided by a jazz duo featuring John Betsey and Marcus Curry. Congratulations again to all the award winners, and the Award Committee for another memorable evening.

Sweet Lecture for June

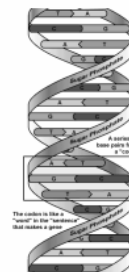
Tuesday, June 14th, 2005 at C&S Engineers

499 Col. Eileen Collins Boulevard, Syracuse, NY

This Sweet Lecture, jointly sponsored by TACNY and IEEE will feature Dr. Rita Calvo, speaking on DNA Breakthroughs and Applications due to Engineering Advances.

Dr. Calvo has a BA in mathematics from Mount Holyoke College and a PhD in Microbiology from Cornell. She taught biochemistry at Cornell for 6 years and has been teaching Human Genetics there since 1984. She started and ran an outreach program for high school biology teachers at Cornell funded by the Howard Hughes Medical Institute for 12 years. Three years ago she used that experience to start a similar program for high school physics teachers for the NSF funded Cornell Center for Nanoscale Systems.

Reservations: Mary Reidy at 428-5326 or via email at mary.reidy@us.ngrid.com



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Project Management Institute
Syracuse Chapter

Project Management Celebration

The Syracuse Chapter of the Project Management Institute announces their first annual Project Management Celebration, to be held June 10th, 2005 at the Holiday Inn in Liverpool.

The awards luncheon will be held from noon until 2 pm with a complimentary networking reception prior to the event. This reception is open to all sponsors, award winners and banquet attendees.

The winners are: the Central New York Project Team, Central New York Project Managers, SU Students and distinguished members of PMI Syracuse.

For more details, contact Kevin Relyea at 315-569-4240

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More Websites of Interest

Digital Technology Tutorials:

http://www.williamson-labs.com/480_logic.htm

Basic overview of all the controls used in a typical oscilloscope and how to set it up. Provides circuit diagrams, output graphs and formulas. Go to:

<http://oscilloscope-tutorials.com/>



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<http://www.sciencekits.com/>

THE ESSENTIAL NEW YORK INITIATIVE

TRANSFORMING CENTRAL UPSTATE TO A KNOWLEDGE-BASED ECONOMY



Note: TACNY is a coalition member ...

The on-time state budget includes \$2 million in funding for Essential New York Initiative programs. These funds are in addition to \$575,000 in federal funding secured earlier this year by Congressman Walsh, and more than \$1 million in private sector support thus far. The funds will support a variety of new programs in '05 including Grants for growth, developed in partnership with Clarkson, Cornell and Syracuse universities.

The funding is just one of the many developments going on with the Essential New York Initiative. To view the latest newsletter use this link:

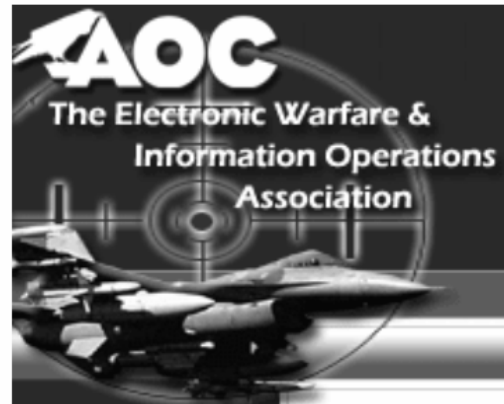
<http://essentialny.com/pdf/39.pdf>

Highlights include:

- IT firms are mobilizing to identify new markets as part of the effort to exploit the region's technology assets.
- Niagara Mohawk has committed \$125,000 to fund a new regional "online marketplace." Scheduled to launch this year, the website will connect researchers, capital providers, entrepreneurs and technology and service professionals.
- The MDA has teamed with the InterReligious Council of Central New York to develop and launch the Corporate Cultures Program. The program will engage CEOs in action-oriented dialogues about workplace diversity, minority hiring and other best practices in creating open and inclusive corporate cultures.

- More than 250 summer internships were set aside for college students in a program launched by the Central Upstate Regional Alliance to help retain more of the huge pool of college students in the region.
- Twenty CEOs have signed up to mentor smaller firms as part of the Essential New York Initiative's effort to help emerging tech companies.

Organizational Spotlight



The Association of Old Crows (AOC) is a nonprofit international professional association with over 14,500 members and 100+ organizations engaged in the science and practice of Electronic Warfare (EW), Information Operations (IO), and related disciplines.

AOC has members in 47 countries with 65 chapters in 19 countries. AOC's membership includes executives, scientists, engineers, managers, operators, educators, and military personnel. Founded in 1964, the AOC owns a headquarters building in Alexandria, Virginia, just outside Washington, DC.

The name "Old Crows" emerged from the first large-scale use of Electronic Warfare during the WWII Battle of Britain and the US and allied bombing raids over Europe. The Allied Radar Countermeasure operators used the code name "Ravens" and employed receivers and transmitters to monitor and jam threat frequencies. Military jargon later changed "Ravens" to "Crows".

With origins in WWII, Electronic Warfare has been, and remains, a critical enabling capability in military operations in peace and war. With the evolution of digital/computer technology, Electronic Warfare (EW), Information Operations (IO), and related disciplines are increasingly necessary to achieve knowledge superiority, strategic and tactical dominance, and asset protection in both offensive and defensive operations. Information Operations include those actions taken to influence, effect, or defend information, information systems, and decision-making. The development of information technology also enables EW and IO systems to cover both the analog and digital domains including the entire acoustic, magnetic, seismic, and electromagnetic spectrums.

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Distributed to over 1,000 professionals!

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