

# Technologist

Includes information for the Syracuse Section of the IEEE

## SYRACUSE AREA TECHNICAL SOCIETIES COUNCIL

ACM - Association of Computing Machinery	Gerry T. Volger	Chair	433-1904
ACS - American Chemical Society	Steven Keller	Chair	
AFE - Association of Facilities Engineers	Nick Kochan	Pres.	455-7061
AFS - American Foundryman's Society	Kevin Walker	Chair	477-5151
AIA - American Institute of Architects	Jamie Williams	Pres.	476-8371
AIAA - American Institute of Aeronautics & Astronautics	John E. LaGraff	Chair	
AIChE - American Institute of Chemical Engineers	Suresh Santanam	Chair	655-8161 x 340
AIHA - American Industrial Hygiene Association	Tom McGiff	Pres.	607-255-5835
ASCE - American Society of Civil Engineers	Matt Millias P.E.	Pres.	451-9560
ASHRAE - American Society of Heating, Refrigerating, and Air-Conditioning Engineers	Tom Buswell	Pres.	432-6510
ASM - American Society for Metals	Jeff Zerilli	Chair	607-533-7000
ASME - American Society of Mechanical Engineers	Tom Michlovitch	Chair	433-1917, x125
ASPE - American Society of Plumbing Engineers	Daniel C. Gehl	Pres.	607-277-7100
ASQ - American Society for Quality	Andy Thyne	Chair	456-3267
ASSE - American Society of Safety Engineers	Jerry Clark	Chair	445-4536
CNYAIHA - CNY American Industrial Hygiene Association	Steve Valentine	Chair	455-0224
CNYSLS - CNY Society of Land Surveyors	Robert Green	Contact	428-4358
CNYTEA - CNY Technology Education Association	Michael D. Thurlow	Pres.	598-6030
FLSA - Finger Lakes Sanitarians Association	Lary Duchaney	Chair	445-1597
IEEE - Institute of Electrical and Electronics Engineers	Mike Hayes	Chair	455-2000
IES - Illuminating Engineering Society	Paul Mahaney	Pres.	443-5328
ISMIC - International Society for Measurement & Control	Steve Burrell	Pres.	445-5555
LCSEAA - LC Smith Engineering Alumni Association	Kelly Thompson	Contact	678-2171
NSPE - National Society of Professional Engineers	Michael R. Hayes, P.E.	Pres	455 2000
NYSAPLS - NYS Assoc. of Professional Land Surveyors	Robert S. Green	Chair	428-4358
NYSATE - NYS Association of Transportation Engineers	Mary Clements	Pres.	428-4627
SAE - Society of Automotive Engineers	Angie Errico	Chair	432-4363
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.

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December 2007

## The Syracuse Section of the Institute of Electrical and Electronics Engineers

[www.ewh.ieee.org/r1/syracuse](http://www.ewh.ieee.org/r1/syracuse)



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*Those members who need to CHANGE CONTACT INFO with the IEEE, including e-mail addresses, should do so at:*

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

### IEEECONTACT INFORMATION

**IEEE Operations Center**  
<http://www.ieee.org>  
 445 Hoes Lane  
 Piscataway NJ 08855-0331  
 Switchboard: +1 732 981 0060

**IEEE Regional Activities**  
<http://www.ieee.org/ra>  
 +1 732 562 5501 (voice)  
 +1 732 463 3657 (fax)  
[regional.activities@ieee.org](mailto:regional.activities@ieee.org)

### 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>

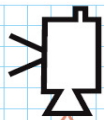
**Check out the all new Syracuse Section website:**

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

The Technology Alliance of Central New York  
[www.TACNY.org](http://www.TACNY.org)

WATCH FOR YOUR COPY OF OUR E-NEWSLETTER





Win \$10,000 in Scholarship Prizes:

# IEEE-USA Online Video Competition

for Engineering Undergraduates on

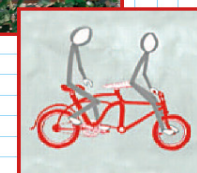
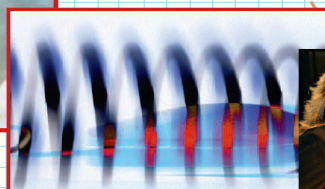
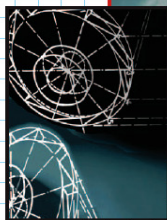
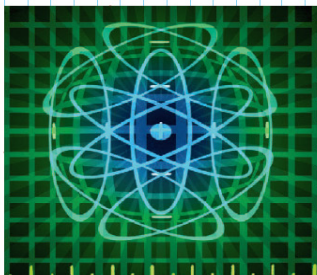
'How Engineers Make a World of Difference'

Choose an aspect of engineering that you consider to be socially constructive, appealing and "fun"; translate it into a 90-second video clip aimed at an 11-to-13-year-old student audience on "How Engineers Make a World of Difference." The clip should convey why you think engineering is cool, and should reinforce engineers' contributions to the quality of life.

Up to \$10,000 in scholarship prizes will be awarded. In addition, winning entries will be shown during National Engineers Week 2008 and on IEEE.tv and *SpectrumOnline*.

The competition is open to all U.S. undergraduate students in engineering. Entries must be submitted by midnight Eastern Time on Friday, 18 January 2008.

To view competition rules and to enter, go to [www.ieeeusa.org/communications/video\\_competition/](http://www.ieeeusa.org/communications/video_competition/); or e-mail [p.mccarter@ieee.org](mailto:p.mccarter@ieee.org).



## Become a 2008 IEEE-USA Mass Media Fellow: Help Promote Technological Literacy

If you're interested in sharing technical information with the public, consider becoming an IEEE-USA Mass Media Fellow. Administered by the American Association for the Advancement of Science (AAAS), the fellowship program helps strengthen connections between engineers and journalists, as well as increase public understanding and awareness of science, engineering and technology.

IEEE-USA Mass Media Fellows must be at least a senior in college majoring in mathematics; engineering; or the natural, physical, health, computer or social sciences. IEEE-USA's 2007 Fellow, Sourish Basu of Cornell University, interned at *Scientific American* in New York City.

The deadline for applications is 15 January 2008. For more information on the program and to apply, see [www.aaas.org/programs/education/MassMedia/](http://www.aaas.org/programs/education/MassMedia/); or e-mail [p.mccarter@ieee.org](mailto:p.mccarter@ieee.org).







Technologist



## Educational Seminar

Join us for a joint IAS & PES presentation!

### IEEE Expert Now !

## Cyber Security of Substation Control & Diagnostic Systems

by Joseph Weiss

sponsored by the IEEE Power Engineering Society

This course will familiarize learners with the need to strengthen the protection of the control systems used in the industry against cyber (electronic) threats. The control systems addressed include SCADA systems, IEDs, substation automation systems, and distribution control systems. The course will identify the major threats, and outline practical suggestions about how the security of these systems may be enhanced.

After completing this course you should be able to develop an understanding of:

- Issues relating to cyber security (Why do people care about this subject?)
- The threats to the security of control systems (Who are the intruders, and why do they do what they do?)
- What makes control systems vulnerable to intrusion?
- Industry's experience is with breaches of security? (Separating the myths from the reality)
- What utilities are required or advised to do to protect their systems (Rules, regulations, and standards: steering through the regulatory thicket)
- What utilities can do now to protect their systems (Practical steps that go beyond what is currently required.)
- Anticipated future developments to enhance the cyber security of control systems.

Joseph Weiss is an industry expert on control systems and electronic security of control systems, with more than 30 years of experience in the energy industry. He serves as KEMA's leading expert on control system cyber security.

**Special Offer for 4 attendees: Win a PES or IAS Society membership for 2008!**

Wednesday, December 12th, 2007

6:00-6:30pm Social Half-Hour

6:30-7:45pm Presentation

7:45pm-8:00pm Q&A

Onondaga Community College



Whitney Applied Technology Center Auditorium

**Cost** (pay by check): **members, \$5.00; non-members, \$5.00**

Pizza & Beverages will be served during the Social Hour.

Please make reservations by emailing before

Monday, December 10th 22nd, 6:00pm to

mary.reidy@us.ngrid.com

Date	Time	Sponsor	Location	Topic	Contact
December 14	5:50 PM	open to all members	RSVP	Holiday Party hosted by the Cobb's	<a href="#">Craig Cobb</a>
January 4	12:00 PM	open to all members	<a href="#">C&amp;S Engineers</a>	Section Executive Committee Meeting	<a href="#">Mike Hayes</a>

1. What's in Store for Sections Congress 2008? Delegates from more than 300 IEEE sections around the world are looking ahead to "Sections Congress 2008: Celebrating Volunteer Achievements Worldwide," to be held 19 to 22 September in Quebec City. The triennial gathering of section leadership from all 10 IEEE regions involves four days of workshops, panel discussions, and tutorials to help make the leaders more effective.
2. Charles Elachi: Exploring the Unknown As far back as he can remember, Charles Elachi was fascinated with space. Looking up at the night sky from the patio of his childhood home in Rayak, Lebanon, he would wonder, are people watching us from other planets too? And how did life begin? Today he may be closer to the answers.
3. Love to Write? Try for a Writing Fellowship If you're in engineering or science and love to write about technical topics, consider applying for the Mass Media Science and Engineering Fellows program of the American Association for the Advancement of Science. As a member of AAAS, IEEE-USA sponsors two Fellows who will work for 10 weeks at a U.S. newspaper, magazine, or radio or TV station.
4. Apple Cofounder Donates Money to Student Branch The IEEE student branch at the University of California at Berkeley lucked out when Apple cofounder Steve Wozniak went back to his roots. A graduate of the school, class of 1986, he donated US \$1000 to the branch in September.
5. "Get IEEE 802" Program Marks Six Years, Adds Corporate Sponsor The program by which the IEEE makes IEEE 802 standards available to anyone passed its sixth year recently, and it attracted a third corporate sponsor. Nortel joins Cisco and the Wi-Fi Alliance in supporting the program.
6. Ecuador Had Top WIE Student Branch. Members of the IEEE Women in Engineering student branch affinity group at the Private Technical University of Loja, in Ecuador, were very busy starting in July last year.
7. Electronic Ticket Checker Named IEEE Engineering Milestone Subway systems and electronic fare cards are commonplace these days. But the development of the world's first commuter ticket-scanning machine, installed to check the tickets of mobs of riders, was recently named an IEEE Milestone in Electrical Engineering and Computing.
8. Face Time Is the Thing During Radio and Wireless Week Wireless technology makes remote communications possible, but face time still counts. So about 700 wireless and radio engineers and scientists will travel to the third annual Radio and Wireless Week to meet, and speak, face to face.
9. IEEE Offers Online Seminar on 21st-Century Engineering Register now for the IEEE GOLD online seminar "The 21st-Century Engineer," taking place on 4 December. Adrian Pais, a telecommunications specialist, will discuss the changing nature of the engineering profession and the challenges and opportunities this presents. Learn about the six essential values an engineer should possess to remain competitive.
10. IEEE Spectrum Webinar Covers Advances in Temperature Measurement Design On 29 November, learn from specialists from Data Translation about considerations for designing accurate analog temperature-measuring instruments in automotive, energy, biotech, manufacturing, aerospace, and other areas.
11. WiMAX: Ready for Prime Time. On 5 December, the latest of the IEEE Spectrum Tech Insider Webinar series will feature industry experts discussing some of the hottest issues in WiMAX, including how it will compete with 3G technology and reshape mobile devices and the Internet.
12. Nominate a Colleague for an EE Times Award Nominate a colleague for the 2008 EE Times Fourth Annual Creativity in Electronics (ACE) Awards. The awards honor inventors who have demonstrated leadership and innovation in the global technology industry. IEEE Spectrum is a sponsor of the 2008 ACE Awards and will present two awards based on its January 2008 Technology "Winners and Losers" issue.

## 2007 RAB AWARDS RECIPIENTS

On 17 November 2007 meeting, the IEEE Regional Activities Board selected the recipients of the 2007 RAB Awards, this includes:

RAB Larry K. Wilson Transnational Award

\* Gerhard Hancke, South Africa Section - "For inspiring membership development and services as a member of several regional and technical conferences worldwide"

RAB Innovation Award

\* Daniel Bellomo and Marcelo Doallo, Argentina Section - "For effective use of technology for knowledge-sharing and networking in the Argentina Section and throughout Region 9"

Also selected were recipients for the RAB Achievement, Leadership and GOLD Achievement Awards. A complete list of recipients and additional information

visit <http://www.ieee.org/rabawards>

## IEEE Xplore(R) Upgrade Provides New Tools for Researchers

IEEE recently released several new research options for its IEEE Xplore online delivery platform, which powers IEEE online subscriptions for organizations and individuals. New features available through IEEE Xplore2.4.2 include: Citation (Known Item) Search, allowing for the quick retrieval of documents by commonly used citation information; Tabbed Search Results, providing users with a more efficient reorganization of search results; Improved Author Search; RefWorks/BibTeX Citation download, providing researchers two additional widely used citation formats; Expert Now Subscriptions for Institutions; and several other enhancements to improve the user experience. Additionally, this release includes test features: Application Notes, which consolidates practical and applied content for working engineers and Technology Surveys, which provides concise, expert summaries of two leading edge technologies with links to key papers in the field.

## FIND OPPORTUNITIES TO WORK WITH NATIONAL SOCIETIES IN YOUR COUNTRY:

IEEE Section leaders in Regions 7-10 are encouraged to work together with National Societies in their respective country. Areas of cooperation can include technical and social meetings, conferences and exhibitions, distinguished lecturers, joint awards and seminars. To find out more, visit <http://www.ieee.org/web/aboutus/agreements/idea.html>

## CONTINUING EDUCATION PROGRAMS OFFERING CEUS MUST FIRST BE REGISTERED WITH THE IEEE EDUCATIONAL ACTIVITIES DEPARTMENT

IEEE Societies, Sections, and Chapters offering Continuing Education Units (CEUs) for courses, workshops, lectures and tutorials being offered at their meetings or conferences must first register the activity with the IEEE Educational Activities Department (EAD) to ensure that the CEUs offered are valid. IEEE is an Authorized CEU Provider through the International Association for Continuing Education and Training. If your organization is offering CEUs but fails to register the course(s) with EAD, the CEUs are not valid.

The Educational Activities Department is responsible for maintaining all CEUs offered by the IEEE as well as keeping a registry of students and the CEUs they have earned for up to seven years. Student transcripts are available upon request. For more information on IEEE CEUs and offering them for your continuing professional development events, contact Celeste Torres at [c.torres@ieee.org](mailto:c.torres@ieee.org) or +1 732 981 3425.

## CALL FOR FELLOW NOMINATIONS

This is a reminder that nominations are being accepted for the IEEE Fellows class of 2009. The rank of IEEE Fellow is the institute's highest member grade, bestowed on IEEE senior members who have contributed "to the advancement or application of engineering, science, and technology."

If you know of a Senior member performing outstanding work in any of these categories: educator, technical leader, research engineer/scientist, or in the recently added application engineer/practitioner, consider nominating that person for Fellow. The deadline for nominations is 1 March 2008.

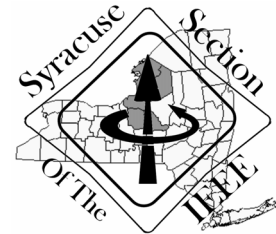
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**Technologist Contact Information**

Editor (also IEEE)	Brian O'Hern	697-2352	b.ohern@ieee.org
President IEEE	Michael R. Hayes, P.E.	455-2000	mhayes@cscos.com
President TACNY	Howie Hollander	456-6287	hollander@tacny.org
Editor TACNY	Maria Welych	637-0663	mwelych@tacny.org

**TIME SENSITIVE MATERIAL  
POSTMASTER, PLEASE RUSH**



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