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 Arians 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 McNeill Pres. 607-255-5835

ASCE - American Society of Civil Engineers
  Matt Milias 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

CNAYAHA - 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

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  Michael D. Thurlow Pres. 598-6030

IEEE - Institute of Electrical and Electronics Engineers
  Mike Hayes Chair 455-2000

IES - Illuminating Engineering Society
  Paul Mahaney Pres. 443-5328

ISMC - International Society for Measurement & Control
  Steve Burrell Pres. 445-5555

LCSEA - 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
  Robert S. Green Chair 428-4627

SAGE - 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 Syracuse Section of the Institute of Electrical and Electronics Engineers
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/

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/

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+1 732 463 3657 (fax)
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The Technology Alliance of Central New York
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/; or e-mail 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/; or e-mail p.mccarter@ieee.org.
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.ongrid.com
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.

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### Upcoming Events & News

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<th>Date</th>
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<tr>
<td>December 14</td>
<td>5:50 PM</td>
<td>open to all members</td>
<td>RSVP</td>
<td>Holiday Party hosted by the Cobb’s</td>
<td>Craig Cobb</td>
</tr>
<tr>
<td>January 4</td>
<td>12:00 PM</td>
<td>open to all members</td>
<td>C&amp;S Engineers</td>
<td>Section Executive Committee Meeting</td>
<td>Mike Hayes</td>
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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 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.
December 2007 Technologist
Distributed to over 750 professionals!

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