

Technologist

Includes information for the Syracuse Sections of the IEEE and the NSPE

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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.

Vol. 8 No 3

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



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Syracuse Section - Syracuse, New York

IEEE/LM MEETING NOTICE



Technologist

IEEE – all Life & Section Members, Spouses & Guests

When: Tuesday, Nov. 15, 2005

Topic: The History of Electronics Park

Speaker: Steve Auyer – he retired from Lockheed Martin (formerly General Electric) in 2001 after working for 34 years at GE facilities in Syracuse and Pittsfield, MA as an Engineer and Program Manager (also an active radio amateur, N2TKX).

Summary: What contains 1,800,000 bricks, 7,000 tons of steel, 70,000 yards of concrete? What has 57,000 sq. ft. of windows, 28,000 florescent fixtures, 1.5 miles of underground tunnels, 3.5 miles of train track, and 5.5 miles of roads?? (no, not Destiny !) The answer is Electronics Park - the facility that General Electric built in the Town of Salina just after World War II. The presentation will consist of a talk and slide show on this facility at the November meeting. Come and hear how employment at the "Park" reached 300% of the expected amount, and then crashed to near zero a decade later. Learn about the people, products and technology of the "Park." And find out which future US President made a number of visits to the "Park."

DATE/TIME/PLACE: Tuesday, Nov. 15, 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. (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

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

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>

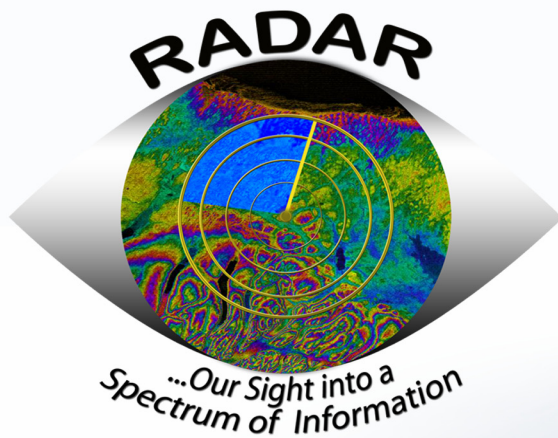
Check out the all new Syracuse Section website:
<http://www.ewh.ieee.org/r1/syracuse/>



Event Calendar

Date	Time	Sponsor	Location	Topic
4-Nov	12:00 PM	IEEE Syracuse Section open to all members	C&S Engineers	Section Executive Committee Meeting
14-Nov	Registration	IEEE Syracuse Section	Holiday Inn	CNY Engineering Expo 2005
	7:00 - 8:15 AM	ASCE, ASME, NSPE & SFPE	Electronics Parkway	
	Sessions		Liverpool, NY	
	8:15-5:00			
9-Dec	12:00 PM	IEEE Syracuse Section open to all members	C&S Engineers	Section Executive Committee Meeting
13-Jan	12:00 PM	IEEE Syracuse Section open to all members	C&S Engineers	Section Executive Committee Meeting
3-Feb	12:00 PM	IEEE Syracuse Section open to all members	C&S Engineers	Section Executive Committee Meeting
3-Mar	12:00 PM	IEEE Syracuse Section open to all members	C&S Engineers	Section Executive Committee Meeting
6-Mar	Dinner 5:30 PM	IEEE Syracuse IAS/PES Chapter Joint with IAEI	LeMoyne Manor	Motors and Motor Controls
	Presentation 6:00 PM		Liverpool	
7-Apr	12:00 PM	IEEE Syracuse Section open to all members	C&S Engineers	Section Executive Committee Meeting
April 24 - 27	see Conference Schedule	Sponsored by IEEE Aerospace & Electronics Systems Society and IEEE Mohawk Valley and Syracuse Sections	Turning Stone Resort & Casino	2006 IEEE Radar Conference
			Verona, NY	
5-May	12:00 PM	IEEE Syracuse Section open to all members	Genesee Grande Hotel	Section Executive Committee Meeting
			Syracuse	
August 18 - 20	8:00 start	IEEE Region I hosted by Syracuse & Mohawk Valley Sections	University Sheraton	Regional Board of Governors Meeting & Officer Training

2006 IEEE Radar Conference



April 24 - 27, 2006

Turning Stone Resort
and Casino
Verona, NY USA

www.radar06.org

“Radar...Our Sight Into a Spectrum of Information,” Highlights the Connection Between Radar and Information. This Theme Provides an Interesting Perspective to Consider the Increasingly Wider Spectrum of Target and Environmental Information that has Evolved, Far Beyond the Original Capability to Detect the Target and Determine its Range, from Innovative Radar Research, Technology, and Component Development, for both Military and Civilian Applications.

For more information visit www.radar06.org



Sponsored by: Aerospace & Electronic Systems Society
Mohawk Valley IEEE Section
Syracuse IEEE Section

Logo background image courtesy NASA/JPL-Caltech.

CENTRAL CHAPTER NY STATE SOCIETY OF PROFESSIONAL ENGINEERS

NEWSLETTER

NOVEMBER 2005

President's Message - Mike Hayes, PE

I wish all of you a Happy Thanksgiving. As engineers, we have a lot to be thankful for. Here's a quote from Marilyn vos Savant from the May 1, 2005 edition of "Parade" magazine: "But the occupational group most responsible for modern society is engineers, who should win a "most underappreciated" award. They have designed and built our entire infrastructure: roads, bridges, waterworks, power lines, communication systems, schools, hospitals and just about every house in the country." It's nice to know someone outside the engineering community recognizes what we do and the contributions we make to society. I want to take this opportunity to thank every member of our Board of Directors for their support. The Chapter could not function without their efforts.

Our second Central New York Engineering Expo will be held on Monday, November 14, 2005 at the Holiday Inn in Liverpool. Six PDHs will be offered again this year. Online registration is available **now**. You can also pay by credit card this year. We have a link to the site to register (URL: <http://www.cscos.com/engineeringexpo/index.cfm>) on our web site. See the schedule included in this newsletter and on the registration site. I encourage you to register on-line even if you plan to pay by check. You can print out the filled-out registration form and mail it in. We also have pdf versions of the registration forms you can print, fill out, and mail if you desire.

NYSSPE is having the annual Fall Development Conference on November 4 & 5 (see www.nysspe.org or link to it from our web site). So, there's an opportunity to get 12 PDHs in a 10 day period.

We are will offer a multi-track "Mini-Expo", probably with 4 PDHs available on Monday, May 15, 2006. This Expo will be held in conjunction with the Celebration of Technology Banquet. We plan to offer six or seven "PDH lunches" a year. Counting the Expos and lunches, there will be opportunities for at least 16 PDHs per year sponsored by the CNY PE chapter **IF** attendance justifies the continuation of the "PDH lunches". The attendance at the October 20, 2005 was disappointing. We plan to continue these lunch-time seminars for at least six months to test "market acceptance". We'll evaluate the support these seminars receive and make a decision about whether to continue them next summer. The lunch meetings are all scheduled for the third Tuesday of the month. The Expos are both scheduled on Mondays. So please mark these dates on your calendars.

We have vacancies on our Chapter Board of Directors. Please contact me at (315) 455-2000 or mhayes@cscos.com (work) or m.hayes@ieee.org (home) if you are interested in joining the Board. The time commitment is not overwhelming, and this is a good way to return something to your profession.

I welcome suggestions for meetings or improvements your CNY PE chapter can make in the services we provide to you.



CNY Engineering Expo 2005
Seminar Schedule

Monday - November 14, 2005 - Holiday Inn, Electronics Pkwy & 7th North St., Syracuse, NY

For more information, call Mike Hayes, PE at (315) 455-2000

REGISTRATION 7:00 - 8:15 A.M.

8:15 - 8:30 AM Opening Remarks - Mike Hayes, PE, Grand Ballroom

ALL BREAKS AND VENDOR DISPLAYS ARE IN CONVENTION CENTER "A"

SEMINARS

Convention Center B	Cotillion South	Convention Center C	Convention Center D	Cotillion North
Civil	Mechanical	Electrical	Professional	Fire Protection
8:30 - 9:30 Excavation for Midland Ave A.J. McGinn & Mitch Carmody, Brierty Assoc. - 1.0 PDH for PE	8:30 - 9:30 Corrosion, Neville Sachs, PE - 2.0 PDH for PE	8:30 - 9:30 Medium Voltage Cables, Robert Kilton - Okonite 1.0 PDH for PE	8:30 - 9:30 Ethics, Dick Simberg, PE - 1.0 PDH for PE	8:30 - 9:30 Rhode Island Nightclub Fire, Don Kass NFSA - 1.0 PDH for PE
9:30 - 9:45 Break	9:30 - 10:45 Corrosion, Neville Sachs, PE - 2.0 PDH for PE	9:30 - 9:45 Break	9:30 - 9:45 Break	9:30 - 9:45 Break
9:45 - Noon Land Development Bridges, Ralph Verrastro, PE, Delta Engineers - 2.0 PDH for PE	10:45 - 11:00 Break	9:45 - 10:45 Medium Voltage Drives & Motor Bearing Currents, John Merkler, Rockwell Automation - 1.0 PDH for PE	9:45 - 10:45 Remediation of Mercury-Contaminated Soil near Onondaga Lake (Soil Washing), Mike Broschart, Parsons - 1.0 PDH for PE	9:45 - 10:45 Firestopping, Peter Schmidt, Firestop Solutions 1.0 PDH for PE
11:00 - Noon New & Existing Elevator Code Compliance, Dan Winslow - 1.0 PDH for PE	11:00 - Noon New & Existing Elevator Code Compliance, Dan Winslow - 1.0 PDH for PE	11:00 - Noon Transfer Switches, Ronald Schroeder, ASCO - 1.0 PDH for PE	11:00 - Noon Video Technology for Machine Vision, Stanley Hack, PE, Consultech - 1.0 PDH for PE	11:00 - Noon Smoke Control/Management Systems, Doug Nadeau, PE, MSFPE, New England Engr Corp 1.0 PDH for PE
Sponsored by ASCE	Sponsored by ASME	Sponsored by IEEE	Sponsored by ASQ & NSPE	Sponsored by SFPE & NSPE

Exhibits 7:30 AM - 5:00 PM

Networking Luncheon & Visit Display Booths (Grand Ballroom) Noon - 1:30 PM

Convention Center B	Cotillion South	Convention Center C	Convention Center D	Cotillion North
Civil	Mechanical	Electrical	Professional	General Interest
1:30 - 2:30 Paving Stone & Retaining Wall Dsgn, Tyler Matys - 1.0 PDH for PE	1:30 - 2:30 Centrifugal Blowers, Oisín McGinty - 1.0 PDH for PE	1:30 - 2:30 Hazardous Areas, Paul Miller, Crouse-Hinds - 1.0 PDH for PE	1:30 - 2:30 European Union Restriction of Hazardous Substances Directive, Timothy McGrady, IMR - 1.0 PDH for PE	1:30 - 2:30 Design Delegation on Fire Protection Systems, Michael Klemenz, PE, Davis-Ulmer 1.0 PDH for PE
2:30 - 2:45 Break	2:30 - 2:45 Break	2:30 - 2:45 Break	2:30 - 2:45 Break	2:30 - 2:45 Break
2:45 - 3:45 Use of GIS to Enhance Site Remediation, Buffy Quinn - Parsons - 1.0 PDH for PE	2:45 - 3:45 Mixing Valve Selection, Application, & Piping Practices, Dean Stanley, V.J. Stanley - 1.0 PDH for PE	2:45 - 3:45 Intrinsically Safe Barriers, Bob Spang, Crouse-Hinds - 1.0 PDH for PE	2:45 - 3:45 Reliability Engineering, Pat Hetherington, Rome Lab - 1.0 PDH for PE	2:45 - 3:45 Facade Restoration, Dan Jackson AIA & Dave Allen, C&S Engineers - 1.0 PDH for PE
3:45 - 4:00 Break	3:45 - 4:00 Break	3:45 - 4:00 Break	3:45 - 4:00 Break	3:45 - 4:00 Break
4:00 - 5:00 Bryan Bayer, Building Near Wetlands, C&S Engineers - 1.0 PDH for PE	4:00 - 5:00 Introduction to Cross Connection Control & Design, Teresa Boepple, PE, NYS DOH - 1.0 PDH for PE	4:00 - 5:00 Power Factor Correction, Donald Wareham, Cooper Power - 1.0 PDH for PE	4:00 - 5:00 Statistics for Reliability, Jorge Romeu, Rome Lab - 1.0 PDH for PE	4:00 - 5:00 Risk Management, Samuel Vulcano & Matthew Gumear, Sugarman Law Firm - 1.0 PDH for PE
Sponsored by ASCE	Sponsored by ASME	Sponsored by IEEE	Sponsored by ASQ & NSPE	Sponsored by SFPE & NSPE

Monday - November 14, 2005 - Holiday Inn, Electronics Pkwy & 7th North St., Syracuse, NY

COST: \$80 Per Person (reservations postmarked not later than 10/31/05, \$100 after)

Please call Alicia Kirkby at (315) 455-2000 or email akirkby@ccscos.com for reservations

Calendar

Date/Time	Topic	Speaker	Location	Cost	Contact
11/14/05	CNY Engineering Expo 2005	Various	Holiday Inn, Liverpool	\$80	Mike Hayes 315-455-2000 mhayes@cscos.com
1/17/06	TBD	TBD	TBD	TBD	Second in series of "PDH" luncheons. Date is tentative.
2/21/06	TBD	TBD	TBD	TBD	Third in series of "PDH" luncheons. Date is tentative.
3/21/06	TBD	TBD	TBD	TBD	Fourth in series of "PDH" luncheons. Date is tentative.
4/18/06	TBD	TBD	TBD	TBD	Fifth in series of "PDH" luncheons. Date is tentative.
5/15/06	TBD	TBD	Holiday Inn, Liverpool	TBD	Mini-Expo & Celebration of Technology Banquet. Date & location are firm.

WEBSITE

There are a number of events, schedules and dates in this newsletter. Unfortunately the slowness of the printed word keeps it at least 3 weeks behind your receipt. To keep current right up to the event, go to our website at <http://www.cnype.org>. The site is as up to date as we can make it. **Check it today for current EXPO schedule and registration forms!**

BOARD OF DIRECTORS MEETINGS

NSPE members are most cordially invited to attend all board meetings. Meetings are tentatively scheduled for noon on the second Thursday of each month. Those wishing to attend should contact Mike Hayes: (315) 455-2000 ext. 4384; mhayes@cscos.com to confirm time and date.

SCHOLARSHIPS

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

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
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Officers 2005-2006

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Past President	Albert A. Brandenburg	234-3725
Technologist Editor	William Busher	434-1242
Web Page Editor	Marjory Baruch	637-0033
Teacher Awards Chair	Dr. Vernon A. Tryon	343-9692

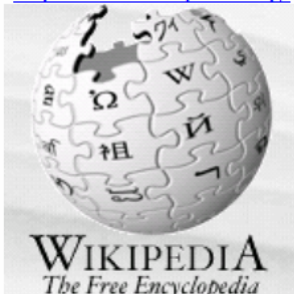
Email Contact Information

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Website of the Month

<http://www.wikipedia.org/>



Wikipedia is an ongoing project aimed at producing a new kind of Encyclopedia that is comprehensive and [free](#) for anyone to consult.

Wikipedia's goal is to create a free, democratic, reliable encyclopedia – indeed, the largest encyclopedia in history, in terms of both breadth and depth.

President's Message

Last night I ran into a couple of Technical Societies Council members at Syracuse Stage (a big shout out to Lindsay and Bob!!) who congratulated me on being elected TACNY president. They had seen my name in the October Technologist, and suggested that I start to write a President's Message for the newsletter. Luckily they didn't see the September issue where I promised to do so each month. Those of you who did read it might remember that I mentioned I had been a process manager earlier in my career. I'm embarrassed to say that somehow our process broke down. I received my October Technologist and, like you, was surprised to see I hadn't written anything. Surprised likely isn't the right word since I KNEW I didn't write anything. I guess the surprise was that more than a month had already passed. I'm sure we can lean our Technologist process (we probably need to define one first!) and seek six-sigma quality (can any statisticians out there tell me how long I need to stay in this job to reliably qualify as meeting six-sigma for the President's Message??), but I wonder if that's even possible in a volunteer organization! If you have any thoughts about making the Technologist better and/or more useful to you, please send me a note at hollander@tacny.org. In the meantime, I'm revising my plan back to one-sigma and will OFTEN have a say on these pages, and STRIVE to make it every issue ☺

Let's get back to Lindsay and Bob a moment. Technically, they belong to the IEEE, and are not Technical Societies Council members. Only an organization can belong to the TSC. I would like to speak more about the TSC, but I think I see the beginning of next month's President's Message. I better start working on it now!

Bridge Build'em and Bust'em

Sponsored by College of Engineering and Computer Science, TACNY, MOST

Location: Museum of Science and Technology, 500 South Franklin Street, Syracuse, New York 13202

www.ecs.syr.edu/news_important_Build_Em.asp

Contact: Peter W. Plumley 443-5730, 425-9068 ext.2163

pplumley@syr.edu, pplumley@most.org

Secondary school students: Test your engineering skills - build a wooden bridge according to our guidelines. We provide the materials; you provide the design and ingenuity. Additionally - High School students are also invited to build a crane. Other Activities Students, teachers and parents will

enjoy Museum exhibits and demonstrations. An on demand project will test your ability at teamwork and design.



The "TECH WARS" student Technology Education Competition is a fun and educational event for you, and your middle and high school students to compete in events that you use in your classroom activities. See the rules at <http://www.wnytea.wnyric.org/> for the competitions. Some are just fun activities that make your students think of solutions. The past few years, Niagara County Community College, dedicated Western New York Technology Educators, students, parents, several educational and business sponsors have made the event a huge success story. Contact Mr. Fred Nash the event chairman if you have any questions-----
fnash@barkerccd.net or call Fred 716 795-3201 during school hours.

TACNY Dinner Meeting

What is the current state of patent development in the Central New York Area?
Where is the development, what areas and technologies are "hot" here in Syracuse?

Date: Wednesday November 16th, 2005 starting 5:45 p.m.
Location: LeMoyne Manor, 629 Old Liverpool Rd., Liverpool, NY 13088
Presentation Topic: Patent Ideas In Syracuse – What and How
Speaker: Mr. Mark Weldon, Director Technology Transfer and Industrial Development, Syracuse University

Program Agenda: Registration & Networking 5:45, Presentation starts at 6:15, chapter announcements 6:45, dinner at 7:00.

Pre-registration is greatly appreciated

Please confirm your attendance by **Monday November 14th**, by calling 315-428-5326, or via email sent to: Mary.Reidy@us.ngrid.com

Directions: : From 81North: Exit 24B(Liverpool Exit) follow Old Liverpool Road straight, 1 mile on left side. www.lemoyneanor.com

Cost: the presentation is free of charge. If you wish to join us for dinner, the cost is: \$15.00 for Members of TACNY; \$17.00 others
Payment accepted at the door – Cash or Check only please.

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- Best practices in K-12, college, university and business collaboration that support student engagement in STEM education and careers.

STEM Forum: Engaging Students in Science and Engineering Education and Careers



Achieving Success Through K-12, College/University and Business Collaboration

Thursday, December 8, 2005
8:30 AM – 5:15 PM
St. Marie Among the Iroquois Living History Museum
Liverpool, NY

Host: SUNY College of Environmental Science and Forestry

Location: Sainte Marie Among the Iroquois Living History Museum, Rt 370W/Onondaga Lake Parkway, Liverpool, NY. [Directions](#). **Plenty of free parking!**

Cost: \$35.00 / person

To Register: Mail or fax completed registration form, along with credit card information or a check made payable to the *ESF College Foundation*, by **November 17th** to:

ESF Outreach

219 Bray Hall, SUNY ESF, 1 Forestry Drive
Syracuse, NY 13210
315-470-6890 (fax)

Program Format: Through plenary sessions and small-group discussions, we will address:

- The near- and long-term economic and social implications related to science, technology, engineering and mathematics (STEM) education and career preparation for New York State and the nation;

HMT, INC.

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officemngr@hmt-electric.com

Mail to: **PO Box 1957 Cicero, NY 13039**

HMT, Inc. is the InterNational Electrical Testing Association member firm in CNY

Calendar of Events

TACNY maintains a calendar of events of interest to all Central New York Technologists. If you have an event you wish to enter into the calendar, just click on the link at <http://www.tacny.org/calendar.html> and fill out the form. A direct link to the form is: <http://www.ecs.syr.edu/faculty/baruch/tacny/TacnyEventForm.html>

Central New York Engineering Expo

Speaker: 28 speakers in 5 parallel tracks about various engineering topics

Monday, Nov. 14, 2005

Sponsored by NSPE, IEEE, ASCE, ASME, ASQ, SFPE
Location: Holiday Inn, 441 Electronics Pkwy, Liverpool, NY 13088

www.cscos.com/engineeringexpo/index.cfm

Contact: Mike Hayes (315) 455-2000 mhayes@cscos.com

Qualifies for 6 PDHs for NY Professional Engineers

Cost: \$80 on or before 10/31/05, \$100 after

November 2005 Technologist
Distributed to over 1,000 professionals!

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**TIME SENSITIVE MATERIAL
POSTMASTER, PLEASE RUSH**



The **Technologist** is published monthly except July and August by the Technology Alliance of Central New York. P.O. BOX 196 SYRACUSE, N.Y. 13201. Cost is included in dues for each member of the affiliated club sections. Please send address changes to the affiliate organizations.

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Technologist Advertising Rates

Single Issue Prices:

Full Page - \$150 Half Page - \$100
Quarter Page - \$75 Business Card - \$40

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