

Technologist

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

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ISMC - 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.

Vol. 7 No 4

December 2004



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



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IEEE

News and Events



Technologist

Syracuse Section - Syracuse, New York

Date	Time	Sponsor	Location	Topic	Contact
October 19 through PE Exams in March	6:00 - 8:00 PM	ASME Syracuse Section cosponsored by IEEE Section	C&S Engineers 499 Col. Eileen Collins Blvd. N. Syracuse	Review Courses for PE Licensing Exams	Fred Wenthen (ftwenthe@syr.edu)
December 3	noon	IEEE Section open to all members	Genesee Inn, Syracuse	Executive Committee Meeting	Don Herres (d.herres@ieee.org)
April 12	to be determined	IEEE Syracuse Section open to all members & guests	to be determined	Fellows' Night - Speaker Col. Barry Shoop, Ph.D. Electrical Engineering Program Director US Military Academy West Point Director-Elect IEEE Region I	Mike Hayes (m.hayes@ieee.org)

IEEE Syracuse Section & IAS/PES Chapter Meetings

Date	Speaker/Topic	Sponsor
Jan-05	Financial Management	Section
Jan-05	Building Transmission in NY, Panel Discussion	IAS/PES
Feb-05	Joint Meeting w/students	Section
Feb-05	Harmonics	IAS/PES
3/10/2005	Celebration of Technology Banquet - Mars Rover	Section
4/12/2005	Fellows Night - Experiences in Afghanistan	Section
May-05	NIMO Control Ctr Tour	IAS/PES
Jun-05	Joint Meeting w/Rochester & Binghamton	Section

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>](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/>



The Institute Online



1. Guiding Women to Engineering Careers

Women make up 46 percent of the workforce in the United States, yet they hold only 12 percent of the jobs in science, technology, engineering, and math. Hoping to attract more women to careers in engineering, a coalition of engineering associations and societies including the IEEE, together with the WGBH-TV Educational Foundation in Boston, have established the Extraordinary Women Engineers Project. Read more at <<http://www.theinstitute.ieee.org/portal/pages/tionline/legacy/inst2004/nov04/11w.fproj.html>>

2. Service Offers Access From Anywhere to Personal Information

What happens if you're traveling abroad and lose your passport, or worse, get so sick you can't give the doctor a medical history? This is where a new document-storage service from the IEEE Financial Advantage Program can help. It stores copies of your important papers, including your medical records, for immediate transmission to wherever the information is needed. Find out more at <<http://www.theinstitute.ieee.org/portal/pages/tionline/legacy/inst2004/nov04/11w.fap.html>>

3. Virtual Museum Exhibit Shows How Big Small Is

"Let's Get Small" traces the development of microelectronics starting with the invention of the transistor in the 1950s, tracks the miniaturization of electronics through integrated circuits and microprocessors, and ends with today's latest nanotechnology developments. This new exhibit, put together by the IEEE History Center and sponsored by the IEEE Foundation and the IEEE Life Member Committee also describes early vacuum-tube computers such as the ENIAC, which took up an entire room. Read more at <<http://www.theinstitute.ieee.org/portal/pages/tionline/legacy/inst2004/nov04/11w.history.html>>

4. Marketplace of Ideas: A Technology Crystal Ball The 40 years since the start of IEEE Spectrum magazine has seen countless innovations in electronics and technology. What important innovations do you think we'll see in the next 40 years? Weigh in at <<mailto:institute@ieee.org>>

5. Conference Examines Networking and Consumer Electronics Trends

As the popularity of networking electronics gear grows in the home, so grows the ways of linking voice and computer communications with entertainment systems, home security, and more. The second annual IEEE Consumer Communications and Networking Conference to be held

3-6 January in Las Vegas, USA, will focus on the great variety of wired and wireless network communications systems and the trends in consumer electronic applications and services. Find out more at <<http://www.theinstitute.ieee.org/portal/pages/tionline/legacy/inst2004/nov04/11w.confcomsoc.html>>

6. ShopIEEE Has 25th Security and Privacy Symposium Proceedings

Even after 25 years, the IEEE Symposium on Security and Privacy continues to cover hot topics including electronic voting, cryptography, data integrity, anonymity and pseudonymity. The proceedings of the 25th symposium held 9-12 May 2004 in Berkeley, Calif., USA, have now been published and are available through ShopIEEE. For more information or to purchase these proceedings, visit <http://shop.ieee.org/ieeestore/product.aspx?product_no=PR2136>

7. Nominate a Colleague for Fellow

It's time to start thinking about nominating a colleague who is a senior member for the 2006 class of IEEE Fellows. Nomination forms are due to the Nominations Committee by 1 March 2005. For the first time, you can submit nominations for a new category that recognizes members working in industry, including application engineers and engineers who have made significant contributions to the profession. To nominate an IEEE senior member for fellow status or to learn more about the process, visit <<http://www.ieee.org/fellows>>

8. Help Boy Scouts Earn Electronics Merit Badge

Promote careers in technology to youngsters by volunteering to help Boy Scouts of America earn their electricity, electronics, or computer merit badge at the 2005 National Scout Jamboree to be held 25 July to 5 August 2005 in Caroline County, Va., USA. To volunteer, visit <<http://www.emeritbadges.org/volunteers.htm>>

**CENTRAL CHAPTER
NY STATE SOCIETY OF PROFESSIONAL ENGINEERS**

NEWSLETTER

DECEMBER, 2004

President's Message - Mike Hayes, P.E.

The Central New York November 15 Engineering Expo at the Holiday Inn in Liverpool was very successful, especially for a first time effort. Over 300 people attended. It looks like each of the four professional groups that supported the Expo (ASCE, ASME, IEEE, and us) will receive \$2000 for their efforts. That puts your PE chapter back in the black after running a deficit for several years. Virtually all of our money is used for the newsletter, MATHCOUNTS, and our chapter's contribution to the scholarship fund.

There were several comments on our surveys that recommended having the Expo two times a year or more. I'd like to do that, but that would be too much for us to take on for now. All of the work was done by volunteers (including the speakers), which is why we were able to offer this educational seminar at a relatively low cost. The Capitol Region is holding a similar educational seminar on February 17 and 18, 2005 (our Expo was based on Albany's annual event during Engineers' Week last February). This will be a good chance for those who need them to pick up more PDHs. There will be more details on the NYSSPE web site (www.nysspe.org) later.

We will definitely do this again next year on November 14, 2005. The NYSSPE convention will be on November 4 and 5, 2005. So, there will another opportunity next year to pick up about 12 PDHs in a short period.

NSPE has a "Future Directions Task Force", of which Kelly Norris, NYSSPE Executive Director, is a member of. NSPE is considering significant changes in how it's organized and what the organization will do. They're really serious about this. There's more information on the NSPE web site at <http://www.nspe.org/fdtf/home.asp>. Please send me any comments you might have at m.hayes@ieee.org or mhayes@cscos.com. I will compile and forward them to Kelly Norris

We are planning to have two activities during Engineers' Week in 2005. One will be a lunch-time event on February 22, 2005 at Barbagallo's Restaurant. On Saturday evening, February 26, 2005 at the S.U. Sheraton, we will participate with Syracuse University in the Celebration of Engineer's Week. Please mark your calendars with these dates (more information in the January newsletter).

Please see the TACNY section of this newsletter for information about the March 10, 2005 Celebration of Technology Banquet. We're having a speaker from Cornell who's involved with the Mars Rover program. As far I know, they haven't found any "little, green men" yet, but it should still be a very interesting presentation.

I would also like to receive nominees for our Engineer of the Year award, which is presented at the Celebration of Technology Banquet. Just send me names at the email addresses above for now. I'll email the nomination form to anyone who wants one. As far as I'm concerned, there's nothing more gratifying, nor any greater honor, than being recognized by your peers for a job well-done.

TACNY, which we jointly publish our newsletter with, is also developing a strategic plan. One item under consideration is eliminating the printed newsletter and just sending it electronically, or only sending the printed version to people who specifically request it, because of the cost. I know some organizations have done this. About half of our chapter's annual expenditures are for the newsletter, so it's financially attractive. In spite of that, I'm not convinced it's a smart thing to do. Send me an email (!) if you have any comments or suggestions on this idea.

Finally, I want to wish everyone a happy holiday season and prosperous 2005.

Mike Hayes, PE

SCHOLARSHIP AVAILABLE

The Foundation for Engineering Education - Past Officers Scholarship is again available. This \$2,000 scholarship is awarded to a high school senior who is the child of a NYSSPE member. Applications are available on our website (www.cnype.org) and are the same as those used for our Chapter scholarships. Applications must be received no later than December 10, 2004 and should be sent to: Tim Taber (655-8161), tptaber@stearnswheler.com

THANK YOU

We are still seeking donations for our Chapter's Scholarship Fund. Please consider furthering our efforts to support future engineers. The Chapter scholarship fund is supported by contributions from firms and individuals who take an active interest in the future of our profession.

Current contributors include:

- Blasland, Bouck and Lee
- C&S Engineers Inc.
- Clough Harbour

- Klepper Hahn & Hyatt, PC
- Microwave Filter
- Stearns & Wheler
- Syracuse Research Corporation.
- Syracuse Thermal Products
- Watkins Environmental Sciences, P.E., P.C.

Donations from firms and individuals are welcome and may be sent to:
CNYSSPE, c/o Microwave Filter Company, Inc.
6743 Kinne Street, E. Syracuse, New York 13057, Attn: Nancy Young.
For additional information please contact Carl Fahrenkrug,
carl-f@microwavefilter.com, 438 4722.

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.** As with everything else concerning your Society, your comments are most appreciated.

MATHCOUNTS - WE NEED YOUR HELP

This is the time of the year when we send notices of our Mathcounts competition to middle schools throughout the Central New York area. Unfortunately those notices are often mis-routed or ignored within the school administrations. You can help by contacting your local middle school to see if they have an interest and then referring them to Andrew Watkins, P.E. (315)446-4764, awatkins3@juno.com for details. Thank you.

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. Those wishing to attend should contact Mike Hayes: (315) 455-2000 ext. 384; m.hayes@ieee.org to confirm time and date.

Our President's Voice –
Field Time

Most geologists have spent time in the field on a project or during college field camp and usually have some story of hardship, a large complex area to map, or some other rite of passage. I know I have some. For a historical perspective I offer the following:

“In accordance with instructions received, I took the field, starting from Denver June 7, 1875, and returned to that place after the completion of the work assigned to me, October 12. During that time and area of 12,500 square miles was surveyed by the party under Mr. A. D. Wilson’s charge, to which I was attached as geologist. Toward the latter part of the field-season fog and deep snow greatly increased the difficulty of the work, and impeded rapid progress.” Ninth Annual Report of The United States Geological and Geographical Survey of The Territories, Embracing Colorado and Parts of Adjacent Territories, 1875, by F.V. Hayden. Another survey party was unable to complete a survey “owing to interruption of work by the Indians,”

Four months on horseback, with the food you could carry or shoot, without Gore-Tex and Polarplus, no topographic map or aerial photographs, no GPS, and 12,500 square miles to survey. It gives a much broader meaning to the term “field camp”. I certainly wonder if I could have survived such an experience. It gives me an appreciation of how easy the field work we do is. And if they field was not enough, when they returned they had to write lengthy reports and draft maps and cross sections all by hand. Whew!

I hope you can get some time in the field along with the peace of mind to enjoy it.

HAPPY HOLIDAYS!
Guy Swenson
President

A different CNYAPG sponsor’s ad will be posted in each issue of the Technologist. For more information regarding CNYAPG, please contact Guy Swenson, President (315.437-6100) or swensoga@obg.com

The 2004 - 2005 Board of Directors are as follows:

- Guy Swenson - swensoga@obg.com
- Jeff McKenzie – jmmckenz@sy.edu
- Karen Cahill – kacahill@gw.dec.state.ny.us
- Joel Parratt – jparratt@pwinc.com
- Jim Mickam – jtmickam.jtm@prodigy.net
- Maureen Whalen – mwhalen@swredev.com
- Bill McCune – wtm@bbl-inc.com
- Kieran Hosey – khosey@gesonline.com
- Nathan Pratt – npratt@gesonline.com

If you have questions, ideas, or concerns about CNYAPG please do not hesitate to contact us.

Membership news – For those of you who have not yet renewed your membership, please do so now! To renew your membership or become a new member, simply complete the membership form which is available on our website at www.cnyapg.org! Membership is only \$25 per year and all money received is used for these newsletters and our monthly meetings.

Future programming – The 2005 CNYAPG Symposium on Isotopic Geochemistry will take place on April 28, 2005. Invited nationally known experts will present on the use of isotopic geochemistry in contaminant source identification, contaminant forensics, biodegradation studies, climate history, and hydrogeology. More information will follow, but hold that day for a great learning experience.

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Calendar

January 20, 2005	CNYAPG Monthly Dinner Meeting..
www.hmpga.org	Hudson-Mohawk Professional Geologists' Association has monthly meetings with speakers. Check their website for the schedule.
http://www.bapg.org/	The Buffalo Association of Professional Geologists has monthly meetings with speakers. Check their website for the schedule.
April 28, 2005	CNYAPG Symposium – Isotopic Geochemistry: This will be a day-long symposium with invited nationally known speakers. More details will follow.
May 12, 2005	Rosamand Gifford Lecture Series: Simon Winchester (Author and geologist). Author of Krakatoa: The Day the World Exploded; The Map that Changed the World. OnCenter 315 435-2121

Officers 2004-2005

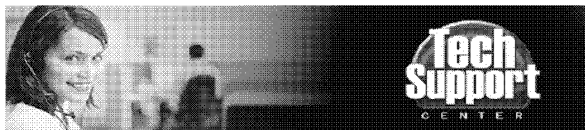
President	Albert A. Brandenburg	453-4545x258
First Vice President	Neil LaBrake	428-6133
Second Vice President	Michael R. Hayes P.E.	455-2000
Secretary	Michael Masingale	445-4108
Treasurer	Susan Weaver	457-5200
Past President/Technologist Editor	William Busher	434-1242
Web Page Editor	Marjory Baruch	637-0033
Teacher Awards Chair	Dr. Vernon A. Tryon	343-9692

Email Contact Information

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

- president@tacny.org
- programs@tacny.org
- technicalsocieties@tacny.org
- secretary@tacny.org
- treasurer@tacny.org
- pastpresident@tacny.org
- membership@tacny.org
- technologist@tacny.org
- webmaster@tacny.org
- teacherawards@tacny.org

Website of the Month #2



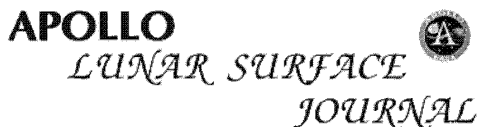
Ever get "the blue screen of death" on your computer? Would you like to know how to use your computer's "scary messages" to help resolve system conflicts? Excellent technical help is available at: <http://www.smartcomputing.com/techsupport/>

Sweet Lecture Series

- Over the next few months, topics will include "Biotechnology in Medicine" and a tour of the Rothschild Patent Model Museum in Cazenovia.

Watch future issues of the Technologist, and the TACNY website (www.tacny.org) for schedule updates and details.

Website of the Month #1



Apollo Lunar Surface Journal -- Word-for-word transcripts, with annotations, and excellent image libraries, of the lunar portions of every Apollo mission, as well as an overview of the dramatic Apollo 13.

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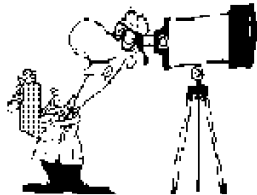
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Organizational Spotlight

The Syracuse Astronomical Society



Amateur Astronomy in Central New York

The Syracuse Astronomical Society is a member of TACNY's Technical Society Council.

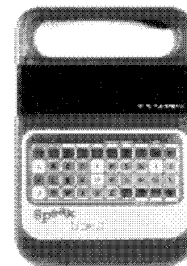
Meetings are held at Room 285, Ferrante Hall, Onondaga Community College between October & April, and at the Darling Hill Observatory between May and September.

There will be a holiday party on Friday, Dec. 17th at OCC's Ferranti Hall.

Questions can be directed to Stu Forster at SHForster1@aol.com

Technology Highlight from the Past:

- Do you remember this?



The following is a reprint of the actual press release from Texas Instruments in 1978

First Single-Chip Speech Synthesizer

Monolithic PMOS Speech Synthesis IC Developed by Texas Instruments

DALLAS (June 11, 1978) - A new speech synthesis monolithic integrated circuit has been developed by Texas Instruments Incorporated. It marks the first time the human vocal tract has been electronically duplicated on a single chip of silicon. Measuring 44,000 square mils, the chip is fabricated using TI's low-cost metal gate P-channel MOS process, the same used for TI calculator MOS ICs.

The speech synthesis MOS/LSI integrated circuit along with two 128K dynamic ROMs each with the capacity to store over 100 seconds of speech, and a special version of the TMS 1000 microcomputer, all TI developed, serve as the main electronics for the new talking learning aid, SPEAK & SPELL(TM), for seven year olds and up. The new TI consumer product was introduced at the Summer Consumer Electronics Shows in Chicago, June 11-14.

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Join us as
we celebrate
intelligent life
here in CNY @

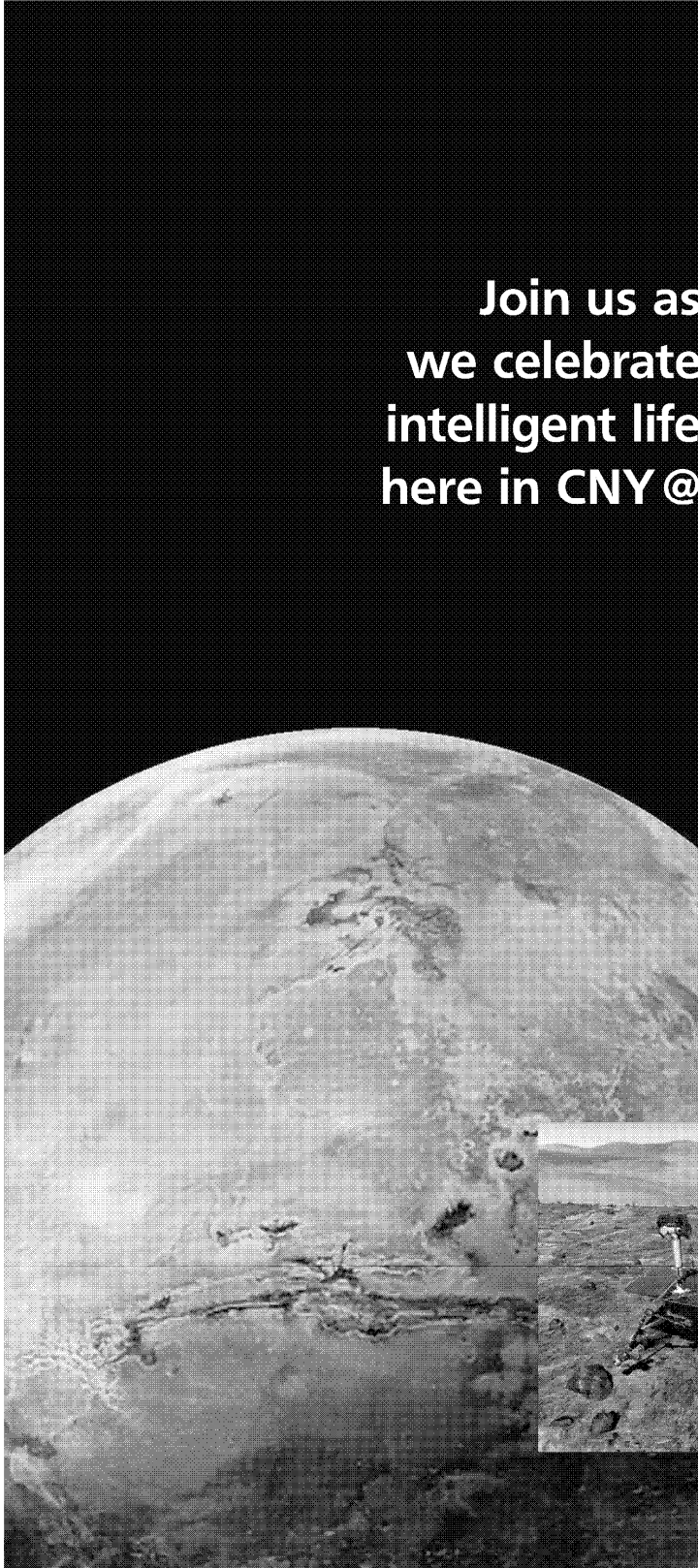
The Seventh Annual Celebration of Technology Awards Banquet

March 10, 2005

*Holiday Inn & Conference Center,
Liverpool, New York*

www.tacny.org

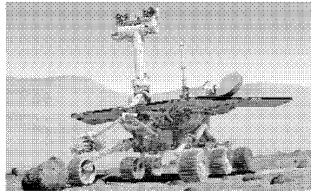
Guest Speaker –
*Professor Robert Sullivan,
Cornell University
On the Mars Exploration
Rovers "Opportunity"
and "Spirit"*



**The Seventh Annual
Celebration of Technology
Awards Banquet**



An Insatiable Thirst for Knowledge Drives the Rover Mission



The Technology Alliance of Central New York welcomes Professor Robert Sullivan, Cornell University as the guest speaker at the Seventh Annual Celebration of Technology Awards Banquet. Professor Sullivan will discuss the Mars Exploration Rover mission, including NASA's twin robot geologists, Mars Exploration Rovers "Opportunity" and "Spirit". The rovers launched toward Mars in the summer of 2003, in search of answers about the history of water on Mars. The Mars Exploration Rover mission is part of NASA's Mars Exploration Program, a long-term effort of robotic exploration of the red planet.

TACNY's Celebration of Technology Awards recognize and celebrate the achievements of Central New York individuals, educators, companies and projects, highlighting Central New York as a rewarding place to learn and work.

The Banquet supports TACNY's improvement initiatives that enhance employment and educational opportunities in Central New York.

The Banquet is also an excellent opportunity for your company to celebrate its own achievements, while supporting TACNY, by exhibiting at the banquet and placing an advertisement in the program brochure.

EVENT INFORMATION

- Cash bar begins at 5:00 p.m., dinner is at 6:30 p.m., and the program begins at 7:30 p.m.
- The Holiday Inn & Conference Center is located at 7th North Street & Electronics Parkway in Liverpool.
- Tickets may be purchased in advance – \$30 per person before March 4, \$40 thereafter.
- Students may purchase tickets for \$15 per student before March 4, \$25 thereafter.

(Specify chicken, fish or vegetarian when purchasing tickets.)

Make checks

payable to: "TACNY – Celebration 2005"

and mail to: Mike Hayes,
C&S Engineers,
499 Col. Eileen Collins Blvd.,
Syracuse, NY. 13212.

ADVERTISING AND EXHIBIT INFORMATION

Quarter, half and full page ad space is available in the banquet program. The cost is \$50, \$75 and \$100 respectively. To place an ad, please mail a check to Mike Hayes at the address above and email the ad file by February 17 to Mike Hayes at mhayes@cscos.com.

12' by 5' exhibit space is available (includes table, chairs, table cloth and utilities) for \$100. Reservations for exhibit space will be accepted through March 3, please contact Mike Hayes at 315-455-2000 for details. Special offer – full page ad and exhibit space – \$160.

The Seventh Annual
Celebration of Technology
Awards Banquet



Award Nominations

TACNY welcomes nominations for worthy candidates by local societies, educational institutions or employers. Nominees need not be active members of TACNY's participating societies, but professional membership in such a society will be given consideration. The winning candidate and their guest will be TACNY's guest at the Banquet. Please follow instructions carefully – nominations must include a candidate photo in a jpeg, tff, or bmp format. The following are the award categories and criteria:

■ **TECHNOLOGIST OF THE YEAR**

A Central New Yorker who has made outstanding contributions to advances and Improvements in a technological field, not limited to Engineering.

■ **TECHNOLOGY PROJECT OF THE YEAR**

A current outstanding technological project, invention or process designed, initiated or constructed in Central New York.

■ **TECHNOLOGY COMPANY OF THE YEAR**

A Central New York Technology company that has made outstanding contributions to new and/or innovative products, processing technologies, or productivity leading to enhanced business.

■ **YOUNG TECHNOLOGIST OF THE YEAR**

A Central New Yorker, less than 35 years old, who has made recent outstanding contributions to advances and improvements in a technological field, not limited to engineering.

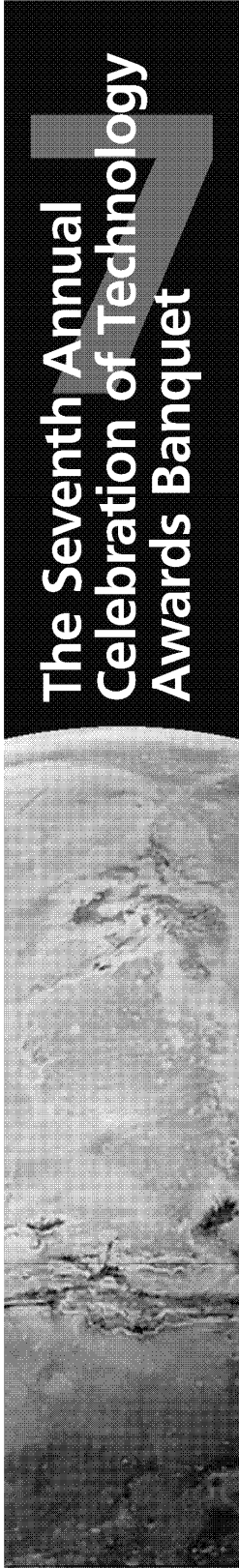
■ **ENGINEER OF THE YEAR**

A Central New Yorker, selected by or for the Central NY Society of Professional Engineers (CNYSPE), who has made outstanding contributions to advances and improvements in engineering.

■ **COLLEGE TECHNOLOGY EDUCATOR OF THE YEAR**

A Central New Yorker, who has made outstanding contributions in Technology Education at the college level.

DEADLINES FOR NOMINATIONS: JANUARY 20th, 2005



Awards Nomination Form

Nominee: _____ **Nominator:** _____

Address: _____ **Address:** _____
_____, NY _____, NY

Phone: () ___ - ___ (H) () ___ - ___ (W) **Phone:** () ___ - ___ (H) () ___ - ___ (W)

Employer: _____ **Professional Society:** _____
(if applicable) (if applicable)

Award Nominated For: (please check one only, see previous page for award criteria)

- | | |
|--|--|
| <input type="checkbox"/> TECHNOLOGIST OF THE YEAR | <input type="checkbox"/> TECHNOLOGY PROJECT OF THE YEAR |
| <input type="checkbox"/> TECHNOLOGY COMPANY OF THE YEAR | <input type="checkbox"/> ENGINEER OF THE YEAR |
| <input type="checkbox"/> YOUNG TECHNOLOGIST OF THE YEAR | <input type="checkbox"/> COLLEGE EDUCATOR OF THE YEAR |

Summary reason for consideration:

100 Word biography:

Supporting data, detailed reasons documented achievements, rationale, etc.

Include additional supporting data with this form. Please include references, sources of additional info and a digital photo of the nominee. **Send nomination materials to Mike Hayes at cscos.com NO LATER THAN JANUARY 20, 2005.**

December 2004 Technologist
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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.

Deadline for **Technologist** submissions is the 17th of each month.

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