

Technologist

Includes information for the Syracuse Sections of the IEEE

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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. 9 No 6

February 2007

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



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Message from the Chair

I am pleased to announce that we have a new EMBS Chapter (Engineering in Medicine & Biology Society) in the Syracuse Section. The Chapter Chair is Al DiRienzo. We will be starting to have EMBS Chapter activities within the next several months.

Mary Reidy and I will have attended the IEEE Region 1 meeting in Windsor Locks, CT by the time you see this. I will write a synopsis of what happened for the March newsletter.

Please see the NSPE section of the newsletter for an announcement of our Engineers' Week meeting on Monday, February 19, 2007. The topic is Global Warming, which has certainly been in the news lately.

Thanks to the leadership of Dr. Prasanta Ghosh, our Section Vice Chair, Scott Stumpf, our PACE Chair, and Marian Chaffe, Syracuse University Student Branch Chair, we have made arrangements with the Syracuse City School District to provide financial support and student volunteers for a LEGO Mindstorm project at Lincoln Middle School. I am really excited about this, and I hope we will be able to expand this to our schools next year.

Mike Hayes, PE

The Institute Online

- 1. Students Create Hands-on Electrical Engineering Course During a late night study session, John Torous, chair of the IEEE student branch at the University of California at Berkeley, had an epiphany about creating a fun introductory electrical engineering course.*
- 2. Renew Your Membership for 2007. There's still time to renew your 2007 membership if you haven't already done so. Remember, IEEE membership can connect you with professionals who can open doors to many opportunities.*
- 3. Former IEEE President Dies. 1974 IEEE President John Guarrera died on 7 December in El Cajon, Calif., at the age of 82.*
- 4. Laptop Battery Standard Gets a Reboot In June 2006, reports surfaced that laptop batteries from Sony Corp. were short-circuiting because of a misstep in the manufacturing process, and the company recalled them. To prevent such a recurrence the IEEE is making its laptop battery standard even more stringent.*
- 5. For the Electronic Cash Register, the Oscar Goes to Arnold Spielberg The next time a cashier rings up your purchases, think of Arnold Spielberg. It's thanks to Spielberg's "sales recorder"--the first electronic cash register--that checkout is so easy and efficient. It's why the IEEE Computer Society honored Spielberg with its Computer Pioneer Award.*

IEEECONTACT INFORMATION

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Piscataway NJ 08855-0331
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IEEE Regional Activities
<http://www.ieee.org/ra>
+1 732 562 5501 (voice)
+1 732 463 3657 (fax)
regional.activities@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>>

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:

Date	Time	Location	Topic
February 2	12:00 PM	C&S Engineers	Section Executive Committee Meeting
February 20	10:00 - noon	Greater Syracuse Business Center	Digital Broadcasting -- AM & FM Radio, TV (HDTV), & Amateur Radio
March 2	12:00 PM	C&S Engineers	Section Executive Committee Meeting
April 6	12:00 PM	C&S Engineers	Section Executive Committee Meeting
May 4	12:00 PM	C&S Engineers	Section Executive Committee Meeting

SEEDS FOR SCIENCE

This program is designed to award local secondary school students who are working on their science project for the [Greater Syracuse Scholastic Science Fair](#) or the [Science Olympiad](#). Awarded money can only be used for purchasing components necessary for the project. We expect to give a number of awards (up to \$100 per project).

IEEE Syracuse section is taking this initiative to promote science and mathematics education among secondary school students.

All students from local schools participating in the Science Fair or Science Olympiad are eligible.

Interested students should send the name of the faculty sponsor; a brief description of the project, along with an explanation stating how you will use the requested money. A committee will select the winners. The decision of the committee is final.

Winners will receive a certificate and the award money. In addition, their names will be published in the *Technologist*, a monthly newsletter of the Institute of Electrical and Electronics Engineers, Syracuse Section, the Technology Alliance of Central New York (TACNY), and the Central Chapter of the NY State Society of Professional Engineers.

Application submission deadline: March 15, 2007.

Applications received after this date may be considered depending on the availability of funds.

All correspondence should be sent to:

Dr. Prasanta Ghosh
 Educational Activities, IEEE Syracuse Section.
 Syracuse University, EECS Dept., Link Hall
 Syracuse, NY 13244
 Tel: (315) 443 – 4440, Fax: (315) 443 - 4441
 e-mail: pkghosh@ieee.org

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

NEWSLETTER

FEBRUARY 2007

**President's Message - Mike Hayes, PE
CALENDAR (continued)**

Our February meeting will be held during Engineers' Week: Monday, February 19, 2006. Please see the details below. John Manning, PE, who is an expert in geothermal systems, will discuss a "hot topic" that's often in the news – global warming. John will discuss the scientific and technical aspects of this phenomenon in a manner that will be understandable for the lay person, but with enough technical information to qualify for a PDH. This will be our first E-Week dinner meeting in many years.

I am pleased to announce that one of our own, John Przepiora, PE, has been nominated for President-Elect of the New York State Society of Professional Engineers. I have the honor of being nominated to be the Vice President of the Central New York Region of NYSSPE. There are more details in the Winter 2006 issue of the *New York Professional Engineer* magazine.

Our local MATHCOUNTS competition will be held at Carnegie Library at Syracuse University starting at 9 AM on Saturday, February 10, 2007. The part that's most fun usually starts around noon. It's like a TV quiz show. Feel free to come and observe.

We will be meeting jointly with AIA and ACEC in March and April. Both meetings will offer PDHs. We'll publish the details on our web site as they become available. I plan to teach a short course about electrical power system engineering for non-electrical engineers starting in May 2006. It will offer anywhere from 12 to 24 PDHs; I'm still working on the details. I will include the details in the March 2007 newsletter.

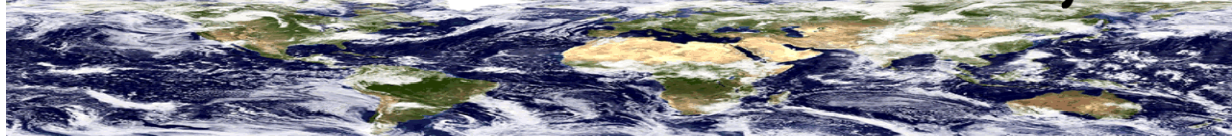
**NSPE Meeting Announcement
E WEEK DINNER**

- Topic & Date:** Global Warming, Monday, February 19, 2007
- Speaker:** John Manning, PE, President, Earth Sensitive Solutions
- Times:** 6:00 PM - Networking; 6:30 PM - Dinner; 7:30 PM - Presentation
- Location:** Syracuse University Sheraton, 801 University Ave. Syracuse, NY
- Cost:** \$30 **Reservations:** Mike Hayes, 455-2000, mhayes@cscos.com, by Friday, February 16

SEE FOLLOWING PAGE FOR DESCRIPTION.

There will be 1.0 PDH offered for this presentation.

EARTH SENSITIVE SOLUTIONS, LLC



Climate Crisis Presentation

John D. Manning, PE is one of 1,000 Volunteers in The Climate Project, each have received extensive training and exposure to the science behind the slide show and passionate presentation embodied in *An Inconvenient Truth*. The objective of the Climate Crisis Presentation is to raise the awareness of the unprecedented agreement in the scientific community as to the seriousness of man's impact on the earth's climate mechanisms, the incredible audacity of the energy power structure perpetuating any lingering doubts in order to prolong their economic vitality regardless of the long term consequences, and the need for each one of us to realize the moral imperative to change the status quo. This objective is achieved by conveying specific scientific facts about atmospheric concentrations of CO₂, the correlation to rising temperatures, the sensitivity of various climate controlling mechanisms, and the projected impact of continued escalation of emission rates.

The speaker will share his personal experiences as well as the inspirational story behind Al Gore's exposure to this issue and his unrelenting commitment to learning about the issues directly from the internationally respected scientists who are at the front lines of understanding the scope and urgency of the Climate Crisis.

John D. Manning, P.E. is President of Earth Sensitive Solutions, LLC, with over 25 years of experience in mechanical engineering, and 20 years of experience with geothermal and solar thermal system installation and design.

With six patents in heat pump design, three years as an installing contractor, 25 years as a professional engineer, Mr. Manning brings a unique perspective to the impact of mechanical system design decisions and corresponding long term impact in the area of Global Warming. This perspective combined with a compassionate sensitivity to environmental impact has provided hundreds of opportunities for Mr. Manning to contribute to the overall success of geothermal projects from Port Augusta, Australia to Auburn, NY. These projects include hospitals, office buildings, academic facilities, dormitories, military housing, and low-income housing projects, as well as the first LEED 2.0 Gold rated facility, the Cambria PA DEP Office in Ebensburg, PA.



CALENDAR

Date/Time	Topic	Speaker	Location	Cost	Contact
Feb 19, 2007	Global Warming 1 PDH	John Manning, PE	Syracuse University Sheraton	\$30	Mike Hayes, PE; (315) 455-2000; mhayes@cscos.com
Mar 07 & Apr 07	TBD	TBD	TBD	TBD	Joint with AIA & ACEC. "PDH" lunch or dinner.
May 07 ~ Oct 07	TBD	TBD	TBD	TBD	"PDH" luncheon
Nov 1 ~ 3, 2007	Various	Various	TBD	TBD	NYSSPE Fall Convention
November 12, 2007	Various	Various	Holiday Inn - Liverpool	TBD	Mike Hayes, 455-2000, or mhayes@cscos.com

WEBSITE

To keep current right up to the event, go to our website at <http://www.cnype.org> .

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
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Teacher Awards Chair	Dr. Vernon A. Tryon	343-9692

E-mail Contact Information

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

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Website of the Month

www.engineeringtv.com



Keep up with engineering news

Engineering TV is an innovative online video program by engineers for engineers.

Twice a week, each 5-8 minute episode shows cutting-edge technology in action and looks behind the scenes as today's engineers shape tomorrow's breakthroughs.

President's Message

I once again have missed the publishing deadline, so must make this quick. ☹ You read last month that our guest speaker for the Celebration of Technology banquet is former astronaut and Renaissance man Story Musgrave. I have had the good fortune to meet and speak with Story on a couple of occasions, and I guarantee you won't leave the banquet without a smile on your face. He is inspirational and informative, inspiring and exciting. Please save May 14 in your calendar for an exciting night, as we also honor the best in technology in Central New York.

Consider nominating a person, project or company that is making a difference right here! Elsewhere in the Technologist is more information on the celebration. If you want to join the committee and delve into all the action that leads up to the big event, please send a note to celebration@tacny.org. I'm looking forward to seeing you there!

Also coming up is the popular Teacher Awards Banquet on May 4. Look in the Technologist for more information on that event too. Thanks, as always, for your support!




Celebration of Technology: Be the Best You Can Be

TACNY's ninth annual Celebration of Technology banquet, set for May 14 at the Holiday Inn Conference Center in Liverpool, is all about being the best. Our 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. And featured speaker Story Musgrave (*shown at right*), a retired astronaut, has always strived to be the best he can be. It's that attitude that led him to earn seven graduate degrees in math, computers, chemistry, medicine, physiology, literature and psychology.

So we are asking you to nominate your best for TACNY's annual awards, which are given out at the banquet: your best employees, college-level instructors, technology projects, and technology companies. 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.

We are seeking nominees in these six categories:

- **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.
- **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.
- **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.
- **TECHNOLOGY PROJECT OF THE YEAR:** A current outstanding technological project, invention or process designed, invented or constructed in Central New York.



Story Musgrave's official NASA portrait.

- **ENGINEER OF THE YEAR:** A Central New Yorker, selected by or for the Central New York 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.

The deadline for nominations is March 30. Please follow the directions on the entry form – on the next page -- completely – nominations must include a digital photograph of the candidate in jpeg, tif or bmp format.

Make your Celebration of Technology Reservations Today

You are invited to attend TACNY's ninth annual Celebration of Technology banquet! In addition to networking with your peers, the banquet honors top companies and individuals in their fields and supports TACNY's improvement initiatives that enhance employment and educational opportunities in Central New York.

The details:

Date: Monday, May 14, 2007

Time: Networking begins at 5 p.m. with a cash bar; dinner begins at 6:30 p.m.; program begins at 7:30 p.m.

Place: Holiday Inn & Conference Center, Seventh North Street and Electronics Parkway, Liverpool

Price: Tickets are \$30 a person if purchased before May 5, or \$50 a person after May 5.

Students can buy tickets for \$25 per person before May 5 or \$35 per person after.

Companies can buy a 10-person table for \$300, or \$500 with a special Story Musgrave memento for each person at the table

To order tickets, send a check payable to TACNY Celebration 2007 to:

TACNY Celebration 2007
c/o Mike Hayes
C&S Companies
499 Col. Eileen Collins Blvd.
Syracuse, NY 13212

Get your message out to the Central New York's technical community

The Celebration of Technology banquet is also an excellent opportunity for your company to get your message out to scores of Central New York technologists and support TACNY by exhibiting at the banquet and placing an advertisement in the program brochure.



Join us as
we celebrate
intelligent life
here in CNY @



The Seventh
Annual Celebration
of Technology
Awards Banquet

March 10, 2005
5:00 p.m.
Holiday Inn & Conference Center
Liverpool, New York



Guest Speaker—
Dr. Robert Sullivan
Cornell University
On the Mars Exploration
Rovers "Opportunity"
and "Spirit"

EXHIBIT INFORMATION

Put on a display to introduce your company or project to Central New York technologists. Exhibit space measures 12 feet by 5 feet and includes a table, chairs, tablecloth and utilities for \$100.

To reserve your space, contact Mike Hayes at celebration@tacny.org.

ADVERTISING INFORMATION

Take out an advertisement in our banquet program, which is handed out at the banquet and mailed out to hundreds more people in technical industries. Available ad configurations:

Quarter-page ad: \$100

Half-page ad: \$200

Full-page ad: \$300

To place an ad, please e-mail the ad by Friday, March 30, to Mike Hayes at celebration@tacny.org and mail a check payable to TACNY Celebration 2007 to:

TACNY Celebration 2007
c/o Mike Hayes
C&S Companies
499 Col. Eileen Collins Blvd.
Syracuse, NY 13212

Find out how to tap your technical skills to become a writer

Engineer-turned-mystery novelist Stan Wilczek Jr. (*above*) is the featured speaker at a joint event hosted by **TACNY** and the **Society for Professional Communication** 6 to 8 p.m. Wednesday, Feb. 21, at the Whitney Applied Technology Center at Onondaga Community College.

Wilczek, a retired nuclear engineer, will discuss how his engineering background creating, designing and communicating his ideas provided the perfect training for becoming a writer. He will share his experiences and provide tips on how to develop good communication skills, as well as provide encouragement to other budding novelists. For more information on Wilczek and his works, link to www.stanwilczekjr.com/.

The talk, part of TACNY's Sweet lecture series, is free and open to the public. Pizza and soda will be served at 6 p.m., with the talk to follow at 6:30 p.m. and a question-and-answer session at 7:30 p.m. Due to limited space, attendees are asked to register by Feb. 16 by sending an e-mail to programs@tacny.org with information on how many people will be coming.



Geometric Tolerancing Seminar

The American Society for Quality is hosting a two-day seminar on geometric dimensioning and tolerancing fundamentals March 1 and 2 at the Holiday Inn & Conference Center, Electronics Parkway, Liverpool.

The course will cover the major pitfalls of traditional coordinate tolerancing, and how geometric tolerancing overcomes them. Then, starting with your basic blueprint knowledge, you'll learn the symbols, terminology and rules of geometric tolerancing as prescribed in the current standard, ASME Y14.5M-1994.

The seminar will meet 8 a.m. to 4:30 p.m. each day and will cost \$695. including course materials, lunches, breaks and a pocket guide. The course is limited to 30 people. To sign up, link to www.tec-ease.com and click on the public seminar link.

Outstanding Teacher Awards

It's official. Five Central New York teachers have been selected to receive TACNY's 19th annual

Outstanding Teacher Awards, which includes a \$1,000 prize. This year's winners are:

- **Suzanne DeTore**, science teacher, Henninger High School
- **Todd Dischinger**, technology education teacher, Liverpool High School (three time winner)
- **Daniel Mainville**, biology teacher, G. Ray Bodley High School, Fulton
- **James M. Paccia**, technology education teacher, Tully Junior-Senior High School
- **Ruth Ann Parker**, mathematics teacher, Skaneateles Middle School

Forty-four teachers were nominated this year, but only 22 provided the required information and three letters of support. Fourteen of the teachers were newly nominated this year and did not receive the award, so they will be considered for next year's awards. It is not unusual for a teacher to receive the award in the second year of consideration. Daniel Mainville was nominated last year and won in his second year of consideration.

The awards will be presented at a banquet at 6 p.m. Friday, May 4, at the Ramada Inn on Buckley Road, in the town of Salina. For more information, including how to make reservations, see the form on the next page or download it from tacny.org.

Technology Alliance of Central New York

Teacher Awards Banquet

Reservations for Nineteenth Annual Outstanding Teacher Awards Banquet
 Ambassador Room, Ramada Inn, 1305 Buckley Road, Syracuse
 6:00 p.m. Friday, May 4, 2007

Menu
 Tossed garden salad, fresh bread & butter
 Prime Rib of Beef au jus, Chicken Marsala, or Vegetarian
 Chef's choice of vegetable & potato
 Beverages
 Forest fruit pie

Name _____ Phone _____

Please list all names as they should appear on table place cards and indicate entrée choice.

	Beef	Chicken	Vegetarian
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____

Number of complimentary reservations _____

Prime rib of beef reservations @ \$27.50 each	# _____	\$ _____
Public school student, prime rib @ \$13.75 each	# _____	\$ _____
Chicken Marsala reservations @ \$24.00 each	# _____	\$ _____
Public school student, chicken @ \$12.00 each	# _____	\$ _____
Vegetarian reservations @ \$24.00 each	# _____	\$ _____
Public school student, vegetarian @ \$12.00 each	# _____	\$ _____
Amount enclosed \$ _____		
Total number of all reservations _____		

Please note any special dietary requirements. Make checks payable to "Technology Alliance of Central New York" or "TACNY."

Reservations must be received by **Friday, April 27, 2007**. Send to:
 Vernon Tryon, 3 Margaret Street, Oswego, NY 13126
 Phone or Fax 315-343-9692 or celebration@tacny.org

February 2007 Technologist
Distributed to over 750 professionals!

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Business Card - \$40

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