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

±1101uues	mijor marion jor	The Oyl acase c		una me i	10. 6

Tucinges information for	The Dyrucuse Dec
SYRACUSE AREA TECHNICAL	SOCIETIES COUNCIL
ACM - Association of Computing Ma Gerry T. Volger Chai ACS - American Chemical Society	
Steven Keller Chai AFE - Association of Facilities Engin Nick Kochan Pres	eers
AFS - American Foundryman's Societ Kevin Walker Chai	•
AIA - American Institute of Architect Jamie Wiliams Pres	
AIAA - American Institute of Aerona John E. LaGraff Chai	ir
AIChE - American Institute of Chemi Suresh Santanam Chai	ir 655-8161 x 340
AIHA - American Industrial Hygene ATOM McGiff Pres ASCE - American Society of Civil En	. 607-255-5835
Matt Millias P.E. Pres ASHRAE - American Society of Hear	. 451-9560
and Air-Conditioning Engineers Tom Buswell Pres	
ASM - American Society for Metals Jeff Zerilli Chai	
ASME - American Society of Mechar Tom Michlovitch Chai	ir 433-1917, x125
ASPE - American Society of Plumbin Daniel C. Gehl Pres	
ASQ - American Society for Quality Andy Thyne Chai	
ASSE - American Society of Safety E Jerry Clark Chai CNYAIHA - CNY American Industri	ir 445-4536
	ir 455-0224
Robert Green Con CNYTEA - CNY Technology Educat	act 428-4358
Michael D. Thurlow Pres FLSA - Finger Lakes Sanitarians Asso	. 598-6030
Lary Duchaney Chai IEEE - Institute of Electrical and Elec	ir 445-1597 etronics Engineers
Mike Hayes Chai IES - Illuminating Engineering Societ Paul Mahaney Pres	у
ISMC - International Society for Mea Steve Burrell Pres	surement & Control
LCSEAA - LC Smith Engineering Al Kelly Thompson Con	umni Association
NSPE - National Society of Profession Michael R. Hayes, P.E. Pr	nal Engineers
NYSAPLS - NYS Assoc. of Profession Robert S. Green Char	•
NYSATE - NYS Association of Trans Mary Clements Pres	. 428-4627
SAE - Society of Automotive Enginee Angie Errico Chai	ir 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 Eng Dennis McCarty Pres SME - Society of Manufacturing Eng	. 716-599-4238
Sam Waite Chai	

The Technology Alliance of CNY has been reporting on technical excellence since 1903.

Vol. 9 No 9

May 2007



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

- 2005-2006 Officers List, Page 7 - President's Message, Pages 7 & 8 - Newsletter Discussions, Page 8 - The Best Kept Secret, Page 9

The Syracuse Section of the **National Society of Professional Engineers** www.CNYPE.org



- Electric Power Systems Overview, Page 5 - Officer Elections, Page 6

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



- Online News and Contact Info, Page 2 IEEE Family Night, Page 3 - Current Calendar of Events, Page 4

Pres.

432-0506

SWE - Society of Women Engineers Susan Weaver



The Institute Online



IEEE-USA award recipients are recognized for their professionalism and technical achievements, as well as literary contributions to public awareness and understanding of the engineering profession in the United States.

IEEE-USA's distinguished awards are administered under its Awards and Recognition Committee and approved by the IEEE-USA Board of Directors. The nomination deadline for 2007 awards is 31 August, 2007. Here's the complete list of 2006 IEEE-USA award recipients:

CITATION OF HONOR

Donald C. Herres

For tireless efforts in professional activities, including career and workforce workshops

Grayson W. Randall For leadership that inspired precollege and college engineering students in the area of robotics

REGIONAL PROFESSIONAL LEADERSHIP AWARD

Carl L. Hussey (Region 3) For promoting PACE activities in Region 3

James Jefferies (Region 5) For promoting the value of electrical engineering to Colorado legislators and the general public

PROFESSIONAL ACHIEVEMENT AWARD

Reza Adhami For leadership in building collaborative relationships between industry and academia Donald C. Loughry For inspiring retired engineers to support science education in local schools by leadership and example

Maura Schreier-Fleming For promoting community awareness of the practice of engineering

AWARD FOR DISTINGUISHED LITERARY CONTRIBUTIONS FURTHERING PUBLIC UNDERSTANDING OF THE PROFESSION WESH-TV Channel 2 News team: Dan Billow, Travis J. Sherwin, Tom Schaad and Claire Metz For accurate reporting in the "Return to Flight" series, which improved community awareness and understanding of the contributions of engineers in the space program

Paula S. Apsell For long-term efforts in promoting the understanding of science and engineering through NOVA programs

PRECOLLEGE EDUCATION COMMITTEE TEACHER-ENGINEER PARTNERSHIP AWARD

Renato Recio and Joy Huebel For collaborative, long-term promotion of technological education at River Oaks Elementary School

DISTINGUISHED PUBLIC SERVICE AWARD

William B. Bonvillian & David J. Goldston For outstanding support of science and technology-related legislation and policy in the U.S. Congress

IEEE-USA advances the public good and promotes the careers and public policy interests of more than 220,000 engineers, scientists and allied professionals who are U.S. members of the IEEE. IEEE-USA is part of the IEEE, the world's largest technical professional society with 360,000 members in 150 countries. See http://www.ieeeusa.org.

IEEECONTACT INFORMATION

IEEE Operations Center

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

IEEE Regional Activities

http://www.ieee.org/ra +1 732 562 5501 (voice) +1 732 463 3657 (fax) regional.activities@ieee.org 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: http://www.ewh.ieee.org/r1/syracuse/





Take Me Out to The Ball Game!

IEEE Family Night

June 15th, 2007

6:00PM

Picnic at Alliance Stadium

Syracuse Chiefs Ball Game Following the Picnic

\$10.00 per Adult

\$5.00 per Child (18 and under)

Your Check is Your Reservation

Due: June 8, 2007

Check Payable to: Craig Cobb

Reservations to: Craig Cobb 446-0625





Date	Time	Sponsor	Location	Торіс
May 8 - May 24		IEEE Syracuse Section & NSPE - open to all	C&S Engineers	Electrical Power System Engineering for non-EE's 18 PDH's available
May 9	full day bus trip	IES CNY Section open to IEEE Members	Jacob Javits Convention Center New York City	Bus Trip to LIGHTFAIR 2007
	5 PM Network- ing 6:30 Dinner 7:30 Program	TACNY cosponsored by IEEE Syracuse Section	Holiday Inn & Conference Center Electronics Parkway Liverpool	Celebration of Technology Story Musgrave featured speaker
August 3	12:00 PM	IEEE Syracuse Section open to all members	C&S Engineers	Section Executive Committee Meeting
September 7	12:00 PM	IEEE Syracuse Section open to all members	C&S Engineers	Section Executive Committee Meeting
October 5	12:00 PM	IEEE Syracuse Section open to all members	C&S Engineers	Section Executive Committee Meeting
November 9	12:00 PM	IEEE Syracuse Section open to all members	C&S Engineers	Section Executive Committee Meeting
January 4	12:00 PM	IEEE Syracuse Section open to all members	C&S Engineers	Section Executive Committee Meeting

Committees & Officers

Chair	Mike Hayes
Vice Chair	Prasanta Ghosh
Secretary	Larry Durante
Treasurer	William H. Maxwell
Newsletter Editor	Brian O'Hern
Professional Activities Chair	Scott Stumpf
Membership Chair	Lisa Osadciw
Educational Activities Chair	Prasanta Ghosh
Student Activities & Branch Advisor	Jay K. Lee
Syracuse University Student Branch President	Marian Chaffee
Webmaster	Don Herres
Chapter Chairs	
Aerospace/Communications (co-chairs)	Lisa Osadciw & Biao Chen
Circuits & Systems	Craig Cobb
Computer	Craig Cobb
Engineering in Medicine & Biology	Al DiRienzo
Industry Applications/Power Engineering	Mary Reidy
Life Members	George Kirkpatrick
Microwave Theory & Techniques/Antennas & Propagation	Ercument Arvas



CENTRAL CHAPTER NY STATE SOCIETY OF PROFESSIONAL ENGINEERS

NEWSLETTER MAY 2007

Electrical Power System Overview 18 PDHs FOR \$150

A Continuing Education Short Course for Engineers

Each class will be approved for 3 PDHs. A total of 18 PDHs are available.

INFORMATION & REGISTRATION

The short course will be held from 6:00 PM to 9:00 PM in May 2007 (see below) at: C&S Engineers

499 Col. Eileen Collins Blvd. (Hancock Airport access road), Syracuse, NY 13212

NEC = NFPA 70, National Electrical Code, NEC 123 = National Electrical Code Article 123

Attend			gineering Overview for non-Electrical Engineers Topic	
	1	Tuesday, May 8, 2007	Typical building power system description, National Electrical Code (NEC) overview, single & three phase systems, voltage levels, & clearances	
	2	Thursday, May 10, 2007	Services, feeders & branch circuits	
	3	Tuesday, May 15, 2007	Overcurrent protection & grounding	
	4	Thursday, May 17, 2007	Motor circuits & transformers	
	5	Tuesday, May 22, 2007	Special cases: hazardous areas, elevators, hospitals, fire pumps	
No.	6	Thursday, May 24, 2007	Load calculation & class exercise	

Cost: Supper (sandwiches, salad, pizza, soft drinks, etc. - will vary) is included in the price.

IEEE or NSPE member number:	(required to get member price
HELE OF MET IS INCHIDE HUMBET.	(required to get inclined price

Deadlines	Register AND Pay on or before 4/27/07		Register & pay on or after 4/28/07	
	NSPE & IEEE Members	Non-members	NSPE & IEEE Members	Non-members
All classes	\$150	\$180	\$175	\$210
Individual classes	\$30	\$35	\$35	\$40

Name of individual for registrat	ion:	
Organization:		
Address:		
Phone:	Fax:	
Email:		

Cash or check (no credit cards): Make check payable to: CNY Chapter, NYSSPE and reference "short course" in the memo portion of the check.

Mail checks to: Mr. Tim Taber, PE, Stearns & Wheler, One Remington Park Dr., Cazenovia, NY 13035. Email: tptaber@stearnswheler.com.



OFFICER ELECTIONS AND BOARD APPOINTMENTS

Ballots for a slate of officers for the coming year will be tallied and results announced at our May meeting (please check www.cnype.org for location and date after you have received this mailing. In addition, there are several Director and committee chair vacancies. WE NEED NEW PEOPLE! If you are interested, or know of someone who is, you are most cordially invited to attend. For any additional information call Secretary Carl Fahrenkrug, P.E. - 438 4722

ANY LICENSED PE, LS, INTERN OR GRADUATE ENGINEER WHO IS A MEMBER OF THE CENTRAL CHAPTER OF NYSSPE IS ELIGIBLE TO VOTE.

Please complete the following ballot and make sure either your name or membership number is shown on the return address. Mail to Carl Fahrenkrug, c/o Microwave Filter Company, Inc, 6743 Kinne Street East Syracuse, New York 13057 - ATTN: Nancy Young (carl-f@microwavefilter.com, 438 4722).

OFFICIAL NOMINEES ARE SHOWN: WRITE-INS ARE ENCOURAGED; MARK ONE FOR EACH POSITION.

OFFICE	TERM	CANDIDATE
President	1 YEAR	Nominee - Mike Hayes P.E. Write-in -
1st Vice President	1 YEAR	Vacant
2 nd Vice President	1 YEAR	Nominee – Don Geiser P.E. Write-in -
Secretary	1 YEAR	Nominee - Carl Fahrenkrug P.E. Write-in -
Treasurer	1 YEAR	Nominee - Tim Taber P.E. Write-in



Officers 2006-2007

President	
Howie Hollander	456-6287
First Vice President	
Mary Reidy P.E	428-5326
Second Vice President	
Marc Viggiano	445-5754
Secretary	
Michael Masingale	445-4108
Treasurer	
William Busher	434-1242
Technologist Editor	
Maria T. Welych	637-0663
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:

president@tacny.org
 programs@tacny.org
technicalsocieties@tacny.org
secretary@tacny.org
treasurer@tacny.org
membership@tacny.org
technologist@tacny.org
webmaster@tacny.org
teacherawards@tacny.org
jr.cafe@tacny.org
communications@tacny.org

Website of the Month

http://www.spacestory.com/intro.htm



Space Story

Learn more about Story Musgrave, the featured speaker at this year's Celebration of Technology banquet, set for May 14 at the Holiday Inn Conference Center in Liverpool.

President's Message

About 40 years ago, folksinger Joni Mitchell sang, "You don't know what you've got 'til it's gone." She was singing about paving over an area to put up a parking lot. In my case, it took our mid-April storm to come to the same realization. With power gone, I was unable to telecommute, and instead forced to drive into the office. During the drive, I got thinking about the many unsung technologists that made it possible for me to work from home in the first place.

Luckily, TACNY has its own way of singing praise about the technological breakthroughs of local technologists and companies, and the teachers that trained them. In May, TACNY will once again host two very special events. The first is our annual Outstanding Teacher Awards dinner on 4 May. Once again, we recognize the technology, science and math teachers that have made the biggest impact in our local schools. You can find their names elsewhere in The Technologist. We all have one - or more teachers that helped shape our career aspirations. I am delighted to be able to honor those that are helping to train the next generation of technology leaders. Perhaps one of those students will develop the technology to allow high speed computing without benefit of electricity!

Also coming up is our annual Celebration of Technology banquet on May 14. At press time, winners in the various categories, including Technologist, Young Technologist, Engineer, College Technology Educator, Technology Project, and Technology Company of the Year, have not been identified.

We do know that former astronaut Story Musgrave will be our guest speaker. Dr. Musgrave has seven graduate degrees in math (from Syracuse University), computers, chemistry, medicine, physiology, literature, and

CONTINUED ON NEXT PAGE



CONTINUED FROM PREVIOUS PAGE

psychology. A veteran of six space flights, Dr. Musgrave was one of two astronauts to restore the Hubble Space Telescope to its full capabilities. His topic at the banquet is "Be the Best You Can Be." Dr. Musgrave is a wonderful speaker, and he is sure to entertain and educate us all.

Reservations can be made by e-mail to teacherawards@tacny.org and celebration@tacny.org. I hope to see you at both events!

There are lots of other technology related events in the area. Please check our community calendar at www.tacny.org/calendar from time to time. If you are not receiving TACNY email to keep you abreast of what's going on, please send me a note at hollander@tacny.org and I will get you added to the distribution list.





Wanted: Webmaster

TACNY is looking for someone to handle its Web site, including overseeing a redesign of the site, instituting an easy-to-use calendar, and making regular updates. If you're interested in improving TACNY.org, send your name and contact information to Amber Markow and Maria Welych at communications@tacny.org.

Technical societies come together

TACNY unfolded some preliminary plans to invigorate the Technical Societies Council at its April 18 meeting at Sensis. Much of the conversation focused on helping the attending societies meet their most pressing needs, especially via a reinvented and redesigned newsletter.

Among the ideas discussed are:

- Revamp the look and organization of The Technologist.
- Include event and other information from all TSC members at no cost.
- · Option of electronic or print versions.
- Distribute every month of the year.
- TACNY would design and publish The Technologist.

Some ideas for the content of the new Technologist:

- Feature articles from TSC members, such as:
 - o Interview with upcoming speaker.
 - Reaction to national topic in industry.
 - Closer look at local company project.
- Profile technical society or teacher award winner in every issue.
- Highlight a technology Web site, weblog, or book in every issue.
- Calendar of events.
- Volunteer, speaking and professional development opportunities.
- Highlight a fact about Central New York's technology history.

These are just some ideas TACNY has had, and nothing is set in stone. TACNY's Communications Committee wants to hear what you think. Contact co-chairs Amber Markow and Maria Welych at communications@tacny.org.

TACNY, though both through the Technical Societies Council and the Communication Committee looks forward to working with all technical groups to help them achieve their goals. Stay tuned: The next council meeting will be in late June. Attend and help set the agenda.

'The Best Kept Secret': that engineers make good writers

By Bill Busher Contributing writer

You never know where research and writing are going to take you. This started out as a book review, but has become more than that. It is a story involving writing within one's comfort zone, using familiar names and places to enrich and make a story line relevant – without getting sued – and using technical career experience while keeping the result reader-friendly.

"The Kept Secret" by Stan Wilczek, Jr., involves post-911 terrorist acts, but is more than the clichéd phrase "ripped from the headlines" would have us believe. There have been no comparable acts since that fateful day. Have we been duly diligent, or have we been lulled into a false sense of security by one too many terror alerts, combined with the false calm that creeps in with ever increasing distance?

Wilczek uses incidents from history, including the Cuban nuclear missile crisis of 1961 and the fact that Nikita Khrushchev died on 9/11 although 20 years earlier, that lends credulity to his premise, and expands that series of events into a present day threat that has an tinge of plausibility.

A plot unwinds that engages the reader to the end. What makes the premise unnerving and believable is not only the description of the attacks, but the way in which the attacks are carried out. In 1954, the ending of the movie "The Thing From Another World" had a reporter warning us to keep watching; keep looking to the skies for the next possible attack. The sky is not where this series of attacks comes from. Indeed, using common biological agents to infect a food supply should peg the reader's paranoia meter, given the contamination problems involving spinach, onions, chicken and peanut butter that have occurred over the past year. It's not so large a stretch to have similar events happen that were planned in advance by an enemy willing to use any means available.

The use of historical events to underpin a storyline is not unusual, nor is using local color that the author is most familiar with to enhance the plot. When information regarding actual places and institutions is incorporated in the storyline, however, the author has to use care. There is a danger in literary name-dropping. It can be overused in an effort to make the story more accessible. The author has succeeded in using an amount of location detail that enhances the story without dragging it down.

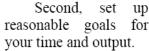
Wilczek is a degreed nuclear engineer, and in fact

was at one time an officer in Niagara Mohawk. His intimate knowledge of the nuclear industry gives him rare insight into that aspect of our power production and distribution system. It does the same in giving his writing a legitimacy that should further engage, and unnerve, the reader. Unfortunately, having a talent for a good story with the right amount of technical detail and local color doesn't guarantee you will be published.

It has been said that there are some five million aspiring writers in the United States, and less than five thousand of them ever get published. Most discouraging to potential writers is that only about fifty will make enough money from it to earn a living. Wilczek's quest to be published ended with him being self-published through a company in Utica. His experiences in getting published could fill a book all by themselves, but he has compiled several "lessons learned" for those wondering

where to start.

First, develop writing skills. For those who have not been through formal training, it may mean buying books on general technique, but it also means commitment to practice.



Third, be dedicated. No one is going to be standing over your shoulder



Stan Wilczek

pushing you to come up with the five pages or thousand words that you established as a goal for the day.

Fourth, be aware of continuity. Changes on page one hundred will likely have impact on previous pages.

Fifth, have a great story. If you are not enthused, chances are your readers won't be, either.

Lastly, have a plan. What is your literary end goal, and how are you going to get there? Write it out, outline it, and revise it as you go along. Use it as your blueprint to keep yourself on track.

Writing isn't hard; good writing is. It requires dedication, skill, and attention to detail. When successful, it also combines a writer's educational, professional and personal experiences into a work that is satisfying to both writer and reader.

TECHNOLOGIST - A Multi-Organizational Newsletter

TECHNOLOGY ALLIANCE OF CNY

P.O. BOX 196 SYRACUSE, N.Y. 13201 NON-PROFIT ORG. U.S. POSTAGE PAID PERMIT NO. 319 SYRACUSE, N.Y.

May 2007 Technologist

Distributed to over 750 professionals!

Technologist Contact Information

Editor (also IEEE) Brian O'Hern 697-2352 b.ohern@ieee.org

President IEEE Michael R. Hayes, 455-2000 mhayes@cscos.com

P.E.

President TACNY Howie Hollander 456-6287 hollander@tacny.org
Editor TACNY Maria Welych 637-0663 mwelych@tacny.org

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.

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

Technologi Advertising Rates **Single Issue Prices:** Full Page - \$150 Half Page - \$100 Quarter Page -\$75 Business Card - \$40

Ten Issue Price (annual subscription)Full Page -\$900 Half Page - \$600
Quarter Page \$400 Business Card -\$200
www.tacny.org



Reach your audience through us!

Ten Issue Price (annual subscription)
Full Page - \$900
Half Page - \$600
Quarter Page - \$400
Business Card - \$200

Single Issue Prices:

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

