

Technologist

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

SYRACUSE AREA TECHNICAL SOCIETIES COUNCIL

ACM - Association of Computing Machinery	Gerry T. Volger	Chair	433-1904
ACS - American Chemical Society	Steven Keller	Chair	
AFE - Association of Facilities Engineers	Nick Kochan	Pres.	455-7061
AFS - American Foundryman's Society	Kevin Walker	Chair	477-5151
AIA - American Institute of Architects	Jamie Williams	Pres.	476-8371
AIAA - American Institute of Aeronautics & Astronautics	John E. LaGraff	Chair	
AIChE - American Institute of Chemical Engineers	Suresh Santanam	Chair	655-8161 x 340
AIHA - American Industrial Hygiene Association	Tom McGiff	Pres.	607-255-5835
ASCE - American Society of Civil Engineers	Matt Millias P.E.	Pres.	451-9560
ASHRAE - American Society of Heating, Refrigerating, and Air-Conditioning Engineers	Ron Westbrook	Pres.	474-7371
ASM - American Society for Metals	Jeff Zerilli	Chair	607-533-7000
ASME - American Society of Mechanical Engineers	Tom Michlovitch	Chair	433-1917, x125
ASPE - American Society of Plumbing Engineers	Daniel C. Gehl	Pres.	607-277-7100
ASQ - American Society for Quality	Andy Thyne	Chair	456-3267
ASSE - American Society of Safety Engineers	Jerry Clark	Chair	445-4536
CNYAIHA - CNY American Industrial Hygiene Association	Steve Valentine	Chair	455-0224
CNYSLS - CNY Society of Land Surveyors	Robert Green	Contact	428-4358
CNYTEA - CNY Technology Education Association	Michael D. Thurlow	Pres.	598-6030
FLSA - Finger Lakes Sanitarians Association	Lary Duchaney	Chair	445-1597
IEEE - Institute of Electrical and Electronics Engineers	Mike Hayes	Chair	455-2000
IES - Illuminating Engineering Society	Chad Loomis	Pres.	476-8311
ISMIC - 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. 8 No 6

February 2006



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



Technologist

ONLINE NEWS

DECEMBER MEMBERSHIP HIGHLIGHTS: IEEE membership reached 367,395 in December 2005, an increase of 0.5 percent compared to December 2004. Specifically, higher grade memberships are down 1.2 percent, student memberships have increased 8.1 percent and society memberships have declined 1.6 percent. Complete details are available in the Membership Development Report at <<http://www.ieee.org/mdprogreport>>. In order to access this site, you must use your IEEE Web Account. If you do not have an IEEE Web Account, please go to <<http://www.ieee.org/portal/pages/web/accounts/index.html>>.

MEMORIAL GIFT FOR GIRLS: In an effort to both encourage girls with an aptitude for science and engineering to pursue their dreams, and honor her Aunt's memory, Gale Hannigan recently donated US\$25,000 to the IEEE Foundation. Thanks to Dr. Hannigan's generosity, female students attending John Adams High School, Queens, NY, USA now have the Edith Hannigan-McHale Scholarship to aid them in attaining their dream.

Annually, the IEEE Women in Engineering Committee (WIE) will oversee the selection of the Edith Hannigan-McHale Scholarship winner. Female students in their senior year at John Adams High School, who have enrolled in, and been accepted to, an accredited four-year college or university, are eligible to apply. Applicants must present evidence of academic accomplishments, two letters of referral, a personal statement that reflects the candidate's career goals and designate a major or program of study in a field of engineering, physics or math.

To learn more about the Edith Hannigan-McHale Scholarship or to discuss how you too can set up a scholarship program in your area of interest, contact the IEEE Development Office - telephone +1 732 562 3915;

IEEE LAUNCHES PHASE 1 OF REVAMPED WEB SITE: IEEE members and other visitors to <<http://www.ieee.org>> have likely noticed some changes since year end. The updates are the first of several planned enhancements to the organization website and are intended to make the site a more valuable resource for members, the technical profession, and the general public.

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/>

Message from the Chair – Mike Hayes, P.E.

I have the honor of serving as Chair of the IEEE Syracuse Section for 2006. I want to thank Mary Reidy for all of the hard work she did for the Syracuse Section the last few years as chair and for volunteering to be the Chair of our IAS/PES Chapter this year. It's people like Mary who keep our section strong and vibrant.

We have some great events planned for the next several months. See the meeting announcements below about the "Stuff" meeting on February 8 and the Telecommunications System Disaster Recovery meeting on February 23. If you're like me, you learned about some "stuff" in the school of hard knocks. Hopefully the "Stuff" seminar will help our younger engineers learn how "stuff" really works in a less painful manner. Here's one hint, which may not be part of the presentation: put your brain in gear before you speak! I don't know how many times I've not taken that advice, even up to recent times.

We haven't figured out what we're going to do in March yet. Hopefully we will in the next month and get it in the March newsletter!

My main goal for this year is to develop a real calendar and have Section activities planned several months in advance. That's easier said than done.

In that vein, the Syracuse Section has two important events planned in April. First is Fellows Night. We recognize our Syracuse Section Fellows at this annual event. After trying off and on for over five years, we've finally found someone who will give us a presentation about magnetic levitation trains. See the announcement elsewhere for more details. The date, time, and topic are set. We'll announce the location in next months newsletter.

Second, the Syracuse Section is one of the sponsors of the IEEE Radar conference. People from all over the world will be attending to learn about cutting edge radar technology. I want to thank Scott Stumpf for leading the charge to make this event happen in Central New York. The conference theme *Radar...Our Sight into a Spectrum of Information* emphasizes the increasingly wider spectrum of target and environmental information that is emerging from innovative radar research, systems technology, and component development for civilian, defense, and space applications. There is more information below and on the event web site at <http://www.radar06.org>.

Please feel free to contact me if you have any comments or suggestions at m.hayes@ieee.org or (315) 455-2000.



Event Calendar

Date	Time	Sponsor	Location	Topic	Contact
3-Feb	12:00 PM	IEEE Syracuse Section open to all members	C&S Engineers	Section Executive Committee Meeting	Mike Hayes
8-Feb	Dinner 6:00 PM Presentation 7:00 PM	IEEE Syracuse Section & several other Professional Societies	University Sheraton	Stuff You Don't Learn in Engineering School	Joseph Kime
14-Feb	10:00 AM	IEEE Syracuse Life Members Chapter open to all members	Greater Syracuse Business Center	Digital Radio & Electronics Speaker: Fred Schlereth	George Kirkpatrick
3-Mar	12:00 PM	IEEE Syracuse Section open to all members	C&S Engineers	Section Executive Committee Meeting	Mike Hayes
6-Mar	Dinner 5:30 PM Presentation 6:00 PM	IEEE Syracuse IAS/PES Chapter Joint with IAEI	LeMoyne Manor Liverpool	Motors and Motor Controls	Mary Reidy
7-Apr	12:00 PM	IEEE Syracuse Section open to all members	C&S Engineers	Section Executive Committee Meeting	Mike Hayes
20-Apr	Dinner Meeting	IEEE Syracuse Section open to all members	to be scheduled	Magnetic Levitation - Transportation speaker: Philip Holmer IEEE-USA Committee on Aerospace & Transportation Policy	Mike Hayes
April 24 - 27	see Conference Schedule	Sponsored by IEEE Aerospace & Electronics Systems Society and IEEE Mohawk Valley and Syracuse Sections	Turning Stone Resort & Casino Verona, NY	2006 IEEE Radar Conference	Scott Stumpf
5-May	12:00 PM	IEEE Syracuse Section open to all members	Genesee Grande Hotel	Section Executive Committee Meeting	Mike Hayes
August 18 - 20	8:00 start	IEEE Region I hosted by Syracuse & Mohawk Valley Sections	University Sheraton	Regional Board of Governors Meeting & Officer Training	Don Herres



Syracuse Section Meeting



Technologist

Topic: Stuff You Don't Learn in Engineering School
Speaker: Carl Selinger
Location: Sheraton University Hotel
801 University Ave., Syracuse
Date: Wednesday, February 8, 2006
Time: 6:00 PM – Dinner
7:00 PM – Speaker
Cost: \$30 – Professionals
\$15 – Students
\$5 – Members of Syracuse University IEEE Student Branch

Reservations: Joseph Kime, (315) 253-7400 x328, jkime@beardsley.com, by February 3, 2006

This seminar will acquaint engineers with practical, non-technical, “soft skills” that are important to be more effective and happier in the “real world”. These include making decisions, setting priorities, running meetings, speaking, writing and listening better, running teams, dealing with stress, and understanding yourself and others. Skills learned are applied directly, offering many effective solutions, not on generalized, generic situations, but on real projects.

The target audience is engineers in the early part of their careers, engineers who want to assume a greater management role, managers of engineers, and engineering students.

The IEEE Syracuse Section is one of the nine sponsors of this seminar.



Joint IEEE AES/ Comm, CAS, & Computer Chapters & NSPE Meeting

Topic: Telecommunications Disaster Recovery
Speaker: Russ Gugino
Location: C&S Engineers
499 Col Eileen Collins Blvd (I-81, exit 27, Hancock Airport access road)
Syracuse
Date: Thursday, February 23, 2006
Time: Noon: Lunch & first presentation
1:00 PM – Second presentation
Cost: \$10

Reservations: Mike Hayes, 455-2000, mhayes@cscos.com, by February 22, 2006

Mr. Gugino is a National Account Manager with NACR, the leading Avaya Business Partner in the U.S. He will speak about developments in the telecommunications industry. He will specifically discuss disaster response and related issues. As events in the last year have shown, the forces of nature can overwhelm just about any man-made systems. Telecommunications systems are a critical part of an effective response to both natural and man-made disasters. There will be two separate presentations. You can attend either or both.

There will be one PDH for NY Professional Engineers for each presentation (two if you attend both).



FELLOWS NIGHT

Syracuse Section

Topic: Magnetic Levitation Trains in Shanghai, China

Speaker: Phillip Holmer, TITAN Prog Mgr, Civil Aviation Systems

Location: TBD

Date: Thursday, April 20, 2006

Time: 5:30 PM – Networking
6:00 PM – Dinner
7:00 PM - Networking

Cost: TBD

Reservations: Mike Hayes, 455-2000, mhayes@cscos.com, by April 18, 2006

Mr. Holmer had an article published in the August 2003 “IEEE Spectrum” about the magnetic levitation train system in Shanghai.

Abstract

China is throttling up a 430-km/h magnetically levitated train to link Shanghai and its airport. Built in China by a trio of German companies and the Shanghai Maglev Transportation Development Co., it reaches 430 km/h (268 mi/h)-130 km/h faster than Japan's famous bullet train. And even as it goes faster than any commercial vehicle without wings, the Chinese train is smoother and quieter than Amtrak's wheel-on-rail Acela-the state of the art in the United States-which pokes along when it can at a maximum 240 km/h. After many false starts and the completion of full-scale experimental maglev systems in Japan and Germany in the 1980s, maglev in China will finally start shuffling passengers in October in a reasonably large-scale, commercial system. The trains will run from downtown Shanghai's financial district to Pudong International Airport, making a 9-minute run that will shave about 40 minutes off the typical trip time in a taxi. With three five-car trains, each carrying as many as 574 passengers, and trains leaving every 10 minutes, the US \$1.2 billion system could carry more than 10 million passengers a year.



**INSTITUTE OF ELECTRICAL AND ELECTRONICS ENGINEERS (IEEE)
SYRACUSE SECTION**

SEEDS FOR SCIENCE

This program is designed to award local secondary school students who are working on their science project for science fair and/or for 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 Science Fair and/or Science Olympiad are eligible.

Interested students should send name of the faculty sponsor; a brief description of the project along with an explanation for requested money. A committee will select winners. 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 Engineer, Syracuse Section, the Technology Club of Syracuse, and the Central chapter NY State Society of Professional Engineers.

Application submission deadline: March 15, 2006.

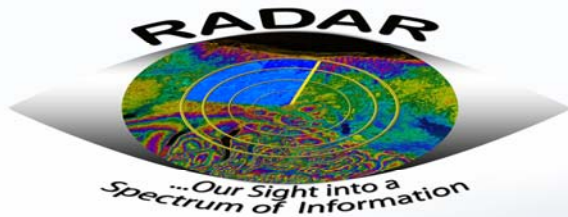
Applications received after this date may be considered depending on the availability of funds.

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: pkgghosh@syr.edu



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



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Mohawk Valley IEEE Section
Syracuse IEEE Section

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9 locations so you can
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each session is worth **7** pdhs



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Engineering Excellence Required; Mediocrity Unacceptable

March 31st (Albany)
April 6th (NYC)

Structural Failures that Changed Engineering and Architecture

April 25th (NYC)
April 26th (Buffalo)
April 28th (Turning Stone Resort)

Design Professionals – GIS and CAD

May 10th (Albany)
May 11th (NYC)

Design Project Financial Management: How Can Information Technology Help?

May 16th (NYC)
May 17th (Syracuse)



registered provider

REGISTRATION FEES:

On or Before March 1
\$200 per person per program
(Lunch included)

After March 1
\$250 per person per program
(Lunch included)

Call idp today for more information or to register – (315)682-1496 or visit our website, www.idpnewyork.com

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

NEWSLETTER

FEBRUARY 2006

President's Message - Mike Hayes, PE

First, I want to solicit nominations for awards for the Central New York Engineer of the Year. The award will be presented at the Celebration of Technology Banquet. The nomination form will be posted on our www.cnype.org web site. Any P.E. who lives in our Chapter's area (Cayuga, Cortland, Madison, Onondaga, or Oswego counties) can be nominated. Nominations will be due in early April 2006. The exact date has not been determined yet. This your chance to recognize your shining stars.

The first of this year's "PDH lunches" with Andy Watkins, PE as speaker was well attended and, as all agreed, a worthwhile event. After all, where else can you get lunch and a PDH credit for only \$10. A listing of future events follows this message, but it would be wise to check www.cnype.org occasionally to keep up with the most recent news.

We are offering 2 PDHs at our February meeting. There will be back to back presentations on different, but related, topics. You can attend either (1 PDH) or both (2 PDH) presentations. There are more details below.

Our PE Chapter is one of the sponsors of the February 8, 2006 "Stuff" presentation. There won't be any PDHs for this meeting, but it should be fun. See the details below.

In April, in addition to our PDH lunch, we're having a joint meeting with ACEC on April 25, 2006. Edward A. Bogucz, Jr., Ph.D., Executive Director of the Syracuse Center of Excellence in Environmental and Energy Systems will discuss the Syracuse Center of Excellence. Their web site is at: <http://coees.internetconsult.com/overview/>. We'll have more details in future newsletters.

We're on schedule with the new multi-track "Mini-Expo", probably with 4 PDHs available, on Monday, May 15, 2006 (in addition to the main Expo this November). The Mini- Expo will be held in conjunction with the Celebration of Technology Banquet.

I don't think we have increased the Chapter dues for as long as I've been here, which is about 13 years. We do not plan to increase them now since we've able to use our Expo surplus to offset some of the costs we've incurred (mostly for MATHCOUNTS and Scholastic Achievement Awards), but (there's always a "but", isn't there?!)..

Well, here's the "but". We are seriously considering switching from a printed newsletter to an email newsletter as many other professional groups are doing. The cost of printing and mailing the Technologist newsletter keeps increasing faster than our dues income. It now exceeds 2/3 of that income, which is the only steady income we have. It looks like that cost could increase significantly this year. We have not made a final decision about this yet.

Send me an email at m.hayes@ieee.org or call me at 455-2000 if you have any comments or questions.

Please see the information below about the scholarships for this year. The deadline is “soon”. We have more information on our web site.

As I write this, winter has returned. The snow is falling heavily. By the time you get this Punxsutawney Phil will have come out of his hole. According to legend, if Punxsutawney Phil sees his shadow, there will be six more weeks of winter weather. If he does not see his shadow, there will be an early spring. I don’t think that makes a difference here in Upstate New York. We always get the six weeks of winter anyway! On the bright side, spring is just around the corner.

CALENDAR

Date/Time	Topic	Speaker	Location	Cost	Contact
2/8/06	“Stuff”	Carl Selinger	University Sheraton	\$30	
2/23/06	Disaster Response	Russ Gugino, NACR (Avaya Partner)	C&S Engineers	\$10	Mike Hayes, PE, 455-2000, mhayes@cscos.com. Third in series of “PDH” luncheons.
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.
4/25/06	Syracuse Center for Excellence	Edward A. Bogucz, Jr., Ph.D., Executive Direc- tor	Wyndham Hotel	\$15	Mike Hayes, PE, 455-2000, mhayes@cscos.com.
5/15/06	TBD	TBD	Holiday Inn, Liver- pool	TBD	Mini-Expo & Celebration of Technology Banquet. Date & location are firm.
6/13/06	TBD	TBD	TBD	TBD	Sixth in series of “PDH” luncheons. Date is tentative.

CAPITOL DIST. CHAPTER TO SPONSER PDH SEMINAR

The Seminar will be held in Albany on 2/16. For details go to our website: www.cnype.org

Meeting Announcement 1

Topic: Stuff You Don't Learn in Engineering School

Speaker: Carl Selinger

Location: Sheraton University Hotel
801 University Ave., Syracuse

Date: Wednesday, February 8, 2006

Time: 6:00 PM – Dinner
7:00 PM – Speaker

Cost: \$30 – Professionals
\$15 – Students

Reservations: Joseph Kime, (315) 253-7400 x328, jkime@beardsley.com, by February 3, 2006

This seminar will acquaint engineers with practical, non-technical, “soft skills” that are important to be more effective and happier in the “real world”. These include making decisions, setting priorities, running meetings, speaking, writing and listening better, running teams, dealing with stress, and understanding yourself and others. I think many of you will find this to be an interesting presentation even if you've been an engineer “forever” like I (Mike Hayes) have.

Meeting Announcement 2 Joint NSPE & IEEE Meeting

Topic: Telecommunications Disaster Recovery

Speaker: Russ Gugino

Location: C&S Engineers, 499 Col Eileen Collins Blvd (I-81, exit 27, Hancock Airport access road) Syracuse

Date: Thursday, February 23, 2006

Time: Noon: Lunch & first presentation
1:00 PM – Second presentation

Cost: \$10

Reservations: Mike Hayes, 455-2000, mhayes@cscos.com, by February 22, 2006

Mr. Gugino is a National Account Manager with NACR, the leading Avaya Business Partner in the U.S. He will speak about developments in the telecommunications industry. He will specifically discuss disaster response and related issues. As events in the last year have shown, the forces of nature can overwhelm just about any man-made systems. Telecommunications systems are a critical part of an effective response to both natural and man-made disasters. There will be two separate presentations. You can attend either or both.

There will be one PDH for each presentation (two if you attend both).

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
- • Stearns & Wheler
- • Syracuse Research Corporation.
- • Syracuse Thermal Products
- • Watkins Environmental Sciences, P.E., P.C.

NOT TOO EARLY TO APPLY FOR P.E. SCHOLARSHIPS

CNY Scholastic Achievement Awards

Once again the Central Chapter of the New York State Society of Professional Engineers will be sponsoring Scholastic Achievement Awards for Central New York high school seniors planning on attending a college engineering program. In the past we have awarded 2 or 3 \$1,000 awards. The deadline for receipt of the application is **February 17, 2006**. To be eligible for these awards, applicants must plan on attending an engineering program at a university or college that has been accredited by the Engineering Accreditation Commission of the Accreditation Board for Engineering and Technology (ABET – EAC). For information and a list of colleges and universities with this accreditation visit <http://www.abet.org>, for questions regarding this requirement please contact Tim Taber (TPTaber@stearnswheler.com).

Applications are available on the Central New York Professional Engineer Web Site at <http://cnype.org/Application.pdf>.

National Scholarships Available

Students may also apply for the national engineering scholarships given by the National Society of Professional Engineers, and are encouraged to visit the following web site for more information: <http://nspe.org/scholarships/sc1-hs.asp>.

Please submit all applications and direct any questions to: Tim Taber (Scholarship Chairman) (TPTaber@stearnswheler.com)

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. Those wishing to attend should contact Mike Hayes: (315) 455-2000 ext. 4384; mhayes@cscos.com to confirm time and date.

Officers 2005-2006

President	Howie Hollander	456-6287
First Vice President	Mary Reidy P.E.	428-5326
Second Vice President	Michael R. Hayes P.E.	455-2000
Secretary	Michael Masingale	445-4108
Treasurer	Susan Weaver P.E.	457-5200
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

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

<http://corporate.classroom.com/>



Teachers using technology to improve
learning, since 1994

Biomimicking: Engineering Design from Natural Structures

Speaker: Dr. Lorna Gibson, Matoula S. Salapatas
Professor of Materials Science and Engineering,
MIT

Tuesday, February 14, 2006, 140 Baker Lab, SUNY-ESF

Professor Gibson received her Bachelor of Applied Science degree in Civil Engineering from the University of Toronto in 1978 and her PhD from the University of Cambridge in 1981. From 1982-84 she was an Assistant Professor in the Department of Civil Engineering at the University of British Columbia. She joined the MIT faculty in 1984, where she is currently the Matoula S. Salapatas Professor of Materials Science and Engineering. Her research interests focus on the mechanical behaviour of highly porous materials with a cellular structure, such as engineering foams, trabecular bone and scaffolds used in tissue engineering. She is the co-author, with Professor MF Ashby, of the book "Cellular Solids: Structure and Properties". She has been active in MIT's gender equity efforts, chairing the Committee on Women Faculty in the School of Engineering. Dr. Gibson's presentation is part of the Women in Scientific and Environmental Professions Speaker Series. Parking is available for a fee in Syracuse University's Irving Avenue parking garage (<http://www.esf.edu/outreach/maps/>)

Contact Heather Engelman at 470-4877 or
engelma@syr.edu

Sweet Lecture

The Sweet Lecture for February had not been finalized at press time. Please watch your emails, and reference the TACNY events calendar for details as they become available. The web address is:

<http://tacny.org/calendar/main.php>

President's Message

Most of us can't get enough of technology. We live it at work, have technology related hobbies, read magazines and journals, go to conferences, etc. However, we also had one source of technology news close to home. For a few years now, the Syracuse Post-Standard has offered up a weekly standalone section on Technology, edited by Maria Welych. As the print version of the local technology water cooler, it gathered us together and talked shop, announced upcoming events, and debated the advantages and disadvantages of Wintel and Apple. Whatever was hot, John and Mary Q. Technologist expected the Post-Standard to bring it to their attention in the Technology section, and, more often than not, the Post-Standard delivered.

As a courtesy, TACNY has been informed that the Post-Standard is planning to eliminate the standalone Technology section for business reasons. The last issue is scheduled for 1 February. The paper will still cover technology topics, featuring one page each week in the Wednesday Business section. Breaking technology news stories will appear in the news/local/business/CNY section, as appropriate. In my mind, this is a bad time to end the standalone section. The Post-Standard editors came out in support of a recent proposal by the Business Council of New York State, reported on 28 December, to make scholarships available to college students studying to be science and math teachers. TACNY and the Milton J. Rubenstein Museum of Science & Technology sent a joint letter to the Post-Standard (6 January) also supporting the proposal, and pointing out in greater detail some of the worrisome statistics demonstrating how the United States is falling behind other countries in these areas (for related information, please refer to a recent report by the National Academies Committee on Science, Engineering, and Public Policy, available at www.nationalacademies.org/cosepup). Governor Pataki, in his final State of the State message, also supported the proposal. Now, more than ever, we need to be increasing awareness and interest in technology topics. I'm not a marketing specialist, but it seemed to me that many of the articles in the Technology section targeted younger readers, the very people we want to encourage to consider and pursue careers in science, technology, engineering and math. The newspaper should be expanding their technology coverage, not reducing it or making it more difficult to find! TACNY can only hope that the decision to eliminate the section meets the Post-Standard's intended goals, without impacting ours.

Assuming it also troubles you, please let the Post-Standard know how you feel with respect to their decision. To let me know what's on your mind, drop me a note at hollander@tacny.org.



The Junior Cafe Scientifique in Syracuse is only the second such cafe in all of North America! The cafes will be held at the Milton J. Rubenstein Museum of Science & Technology (MOST) at 9:30 a.m. on the third Saturday of each month, sponsored by TACNY and the MOST. The Cafe is an interactive talk for kids in grades 6th - 12th.

Come with your kids, students, and neighbors for a fun Saturday morning at the MOST. A snack and a chance to tour the museum are also included in the free program. RSVP by calling the MOST at (315) 425-9068, x2121.

See the flyer in this edition for information on the February 18th Cafe.

The most recent Café, scheduled for January 21st, featured a brief talk by Professor Thong Dang, who holds a Ph.D. in Aeronautics and Astronautics from MIT and is currently Professor in the Department of Aerospace/Mechanical/Manufacturing Engineering at Syracuse University. He is also Director of the Aerospace Engineering Program.



TACNY is excited to be a sponsor of a great continuing education opportunity for working on your "soft" skills. For more information on the speaker, Carl Selinger, please visit <http://www.carlselinger.com/>, or check out his various articles in IEEE Spectrum Magazine. (<http://www.spectrum.ieee.org/careers>).



This year, the Central Upstate Regional Alliance is joining with the Metropolitan Development Association, the Greater Syracuse Chamber of Commerce, and the MACNY to offer the region's largest internship program: Project-ION - Internship Opportunities Now! With your help, we hope to offer over 500 internships with regional businesses this summer.

To learn how you can participate or learn more about the program, please visit www.project-ion.com. This site will allow you to post your internships directly online, view peer organizations' postings, and download useful information to assist you in the internship process. If you have any questions, please email info@project-ion.com or call Michael Frame at (315) 422-8284.

Museum Director Speaks to Local Group
Syracuse – Jan. 18

Dr. Warren Allman, Director of the Museum of the Earth, in Ithaca, NY, spoke to over forty attendees at Bett's Library in Syracuse on "Evolution and Creationism – What Everyone Needs To Know," sponsored by CNY Sceptics.

Dr. Allman explained that evolution is the idea that all organisms are connected by genealogy and have changed through time. The question of whether evolution occurs is separate and different from the question of how evolution occurs. The evidence is overwhelming that evolution occurs, and that it is a satisfactory explanation for the observations we make about the history, order and diversity of life. Both creationism and intelligent design have been tested as scientific hypotheses in the past, and both completely failed.

Warren Allmon received his AB from Dartmouth College in 1982 and his PhD from Harvard University in 1988. From 1988 to 1992 he was Assistant Professor of Geology at the University of South Florida in Tampa. He became PRI's fourth Director in September, 1992. Allmon is also Adjunct Associate Professor of Earth and Atmospheric Sciences at Cornell University.

The Museum's website is located at:
<http://www.priweb.org/museumoftheearth/>

CNY Sceptics is a not-for-profit science/educational group based in Syracuse, and a member of the Technical Societies Council.

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Rocks from the Sky— the End of the Reign of Dinosaurs

with **Linda C. Ivany**

Associate Professor of Earth Sciences
Syracuse University

Junior Café Scientifique is an interactive talk for kids in grades 6-12 in Central New York. Modeled after the International Café Scientifique (www.cafescientifique.org), this program features a brief talk by our guest speaker on a current science, mathematics, engineering or technology topic. Following the talk, there will be an opportunity for group questions and discussion.

Parents and children are welcome to attend. A snack and a chance to tour the museum are also included in the free program. **RSVP by calling the MOST at 425-9068, x2121.**

Saturday, February 18

9:30 – 11 am

at the

Milton J. Rubenstein **MUSEUM OF SCIENCE & TECHNOLOGY**
500 South Franklin Street, Syracuse



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