

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
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. 9 No 2

October 2006

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



- Online News and Contact Info, Page 2
- Communication & Networking Workshop, Page 3
- Life Member Meeting: Maple Ridge Windfarm, Page 4
- Current Calendar of Events, Page 5
- Joint Meeting Announcement Electric Reliability Page 6

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



- President's Message, Page 7
- Calendar, Page 7
- Meeting Notice and Website info, Page 8
- Scholarships, Thank You Page 9



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

- 2005-2006 Officers List, Page 10
- President's Message, Page 10
- Teacher Award Nominees, Junior Café, etc Page 11
- Bridge Building Contest, Page 12
- Sweet Lecture Series, Page 13



Syracuse Section - Syracuse, New York

Online news


Technologist

PRICING AND SALES OF SOCIETY CD/DVD COLLECTIONS: In February 2005, the TAB/PSPB Products & Services Committee discussed concerns that had been raised about the pricing and sales administration of Society-developed products. Of particular significance was the impact such offerings would have on IEEE's existing publications revenue stream, which is a major factor in IEEE's financial stability. The result of that discussion was the following motion:

For sales of CD/DVD digital Society publication collections:

- o Pricing for member sales shall be set by Society in consultation with IEEE Marketing
- o Member and single-use non-member sales shall be for purchasers' use only
- o Single-use non-member pricing shall be proposed by Society and approved by TAB/PSPB PSC
- o Single-use non-member sales may be made by Society
- o Multiple-use and networked non-member sales shall be through IEEE Marketing
- Reaffirm that net revenue from all such sales, member and non-member, shall go directly to Society originating the archived material. Coordination of this approved process is currently being handled by the IEEE Conference Publications Product Management Group. If your Society has developed or is planning on developing new offerings of this kind or updates to existing offerings, please contact the group at "MailTo:ConfPubs@ieee.org".

IEEE SEEKS PROGRAM EVALUATORS FOR ACCREDITING ENGINEERING & ENGINEERING TECHNOLOGY PROGRAMS AT US UNIVERSITIES: The IEEE, the largest member of ABET, Inc. (formerly known as the Accreditation Board for Engineering and Technology), is responsible for the peer-review evaluation of more than 700 university programs in the IEEE fields of interest. IEEE's involvement in the peer-review evaluation is vital to ensuring the continuing quality brought forth after graduation into the engineering and engineering technology professions. To aid IEEE and ABET in this accreditation role, the IEEE Educational Activities Board is seeking engineering professionals from industry, government and academe to serve as program evaluators.

Applications for the 2007 - 2008 academic year will be accepted through 15 November 2006. Aside from the professional and public good that evaluators perform, another benefit of being a program evaluator includes the opportunity to keep in touch with changing engineering and technology teaching methods. Program evaluators are also able to meet those who will be soon enter the profession, as well as learn how to conduct an objective evaluation of the educational process using established criteria which can be helpful for those interested in training related to continuous improvement procedures. Selected applicants will attend a training seminar on the IEEE/ABET accreditation process. After training, program evaluators are dispatched in teams to visit engineering and engineering technology departments at universities across the country on behalf of the IEEE and ABET. Evaluation sessions are held during the fall and usually run two to three days.

Information packages, including the application and nomination forms, are available at:

<http://www.ieee.org/web/education/apc/ceaa/eacinfo.html>

for engineering programs and

<http://www.ieee.org/web/education/apc/ctaa/tacinfo.html>

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.

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:

Call For Participation IEEE Upstate NY Workshop on Com- munications & Networking '06



Date: Monday, November 6th, 2006

Time: 8:30am-5:00pm

Location: Golisano Auditorium, RIT, Rochester, NY

This workshop aims to provide a forum for discussing recent advances in communications and networking technologies. The workshop will bring together researchers and practitioners in academia and industry in the upstate NY area. This year's workshop represents the merger of the IEEE Upstate NY Workshop on Communications and Networking and the IEEE Upstate NY Workshop on Sensor Networks. Topics of interest include recent advances in ALL areas of communications, Internet, wireless and sensor networks. The Rochester joint IEEE Communications and Aerospace Engineering Society is sponsoring the workshop.

Registration:

Make check or money order payable to: "IEEE Rochester Section NY"

Mail to: Dr. James Kwon, RIT, 83 Lomb Memorial Drive, Bldg 17,

Rochester, NY 14623-5603

\$15-students, \$20-IEEE members, \$30-others

Workshop Pre-registration Deadline: October 22, 2006

Workshop Organizers:

General Chairs: Mitel Kuliner, Harris, and James Minseok Kwon, RIT

Technical Program Chairs: Wendi Heinzelman, U. of Rochester, and Shanchieh Jay Yang, RIT

Webmaster: Lisa Osadciw, Syracuse University

Publicity: Sumitra,

Local Arrangements: Nirmala Shenoy, RIT and Rochester joint IEEE

Communications and Aerospace Engineering Section

Organizing Committee: Pramod Varshney, Syracuse University, Sergio Servetto, Cornell University, and Biao Chen, Syracuse





Institute of Electrical and Electronics Engineers



Syracuse Section • Syracuse, New York

IEEE/LM MEETING NOTICE

Institute of Electrical & Electronic Engineers, Syracuse Section
IEEE – all Life & Section Members, Spouses & Guests

When: Tuesday, Oct. 17, 2006, 9:00 AM at the Syracuse Business Center, then carpool to the Lowville area with lunch at Croghan and return to Syracuse by 4:00 PM.

Topic: Inspection of Maple Ridge Wind Farm (near Lowville) and Nearby Water Mills

Tour Leaders: Your LM Committee --- Craig Cobb, Ed Heinzerling, George Kirkpatrick, Lou Ragonese, and Clayton Roberts

Meeting Place/Schedule: We will meet at the usual place, Syracuse Business Center (1201 East Fayette Street) and have an introduction to the Maple Ridge Wind Farm. Come at 9:00 AM if you want coffee/tea & conversation and the wind farm introduction as we will be leaving at 10 AM for Lowville. We will car pool up to Maple Ridge, near Lowville, for a viewing of the windfarm on the ridge. We plan to have lunch at Croghan, overlooking the Beaver River and an early water-powered mill on Croghan Island. (A special rate on lunch, \$4.00, at Schultz's Family Restaurant in Croghan) After lunch we'll drive back toward Lowville to inspect an old, water-turbine powered mill on Crystal Creek. This mill has been made operational by Howard Card, retired SU Professor of Electrical Engineering; the mill can grind grain, work wood, generate electricity etc...

Maple Ridge Wind Farm – The first & second phases of this project required the construction of 195 wind turbines (now completed) and a 230 KV 10.5 mile overhead transmission line. Each turbine has a capacity of 1.65 MW. The 195 windmills are spread out in a jagged 12 mile line through rural Lewis County, leeward of Lake Ontario. Powerful lake-effect winds can generate enough electricity to power about 500 homes from each turbine. Typically, each 1.65 megawatt turbine costs \$2.3 to 2.8 million to build, so the completed Maple Ridge Project has a cost between \$450 to \$550 million, and each turbine has an estimated life of 20 years. This project is a 50/50 joint effort of PPM Energy (A Scottish Power Company) and Horizon Wind Energy (owned by Goldman Sachs). Wind sensors provide inputs to a computer control system which keeps the machines operating efficiently (directed into the wind and blade pitch set).

Register: Please call (or e-mail) me by Monday evening, Oct. 16, 2006 to assist in estimating transportation (by car pool).

CALL: George Kirkpatrick 458-0082 (this line has a recorder)

OR e-mail: < georgekirk@ieee.org >

Date	Time	Location	Topic
October 5	Networking - 6:00 PM Dinner - 6:30 PM Presentation - 7:30 PM	Sheraton University Hotel	DARPA Driverless Car Challenge
October 6	12:00 PM	C&S Engineers	Section Executive Committee Meeting
November 3	12:00 PM	C&S Engineers	Section Executive Committee Meeting
November 6	8:15 AM - 5:00 PM	Holiday Inn Electronics Pkwy & 7th North Liverpool, NY	CNY Engineering Expo Earn up 7 PDHs for PE Registration Re- quirements
November 10	12:00 PM	Golisano Auditorium RIT Rochester, NY	3rd IEEE Upstate NY Workshop on Com- munications & Networking
January 5	12:00 PM	C&S Engineers	Section Executive Committee Meeting
February 2	12:00 PM	C&S Engineers	Section Executive Committee Meeting
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



Joint Meeting

**IEEE Syracuse Section, IEEE Power Engineering Society
and The Technology Alliance of Central New York(TACNY)**

MEETING ANNOUNCEMENT- WEDNESDAY, NOVEMBER 15, 2006

WHAT: After the 2003 Blackout- Reliability

What You Should Know About Electric Reliability

WHO: Herbert Schrayshuen, P.E.

Vice-President

Transmission Reliability Compliance

National Grid

WHERE: Onondaga Community College (Location to be Confirmed)

Whitney Auditorium

Route 173 Syracuse, NY

WHEN: Wednesday, November 15, 2006

TIME: 6:30pm- 8pm

The Central New York Community is proud to present a very popular speaker. Herb Schrayshuen has presented many times to the Syracuse IEEE Section, and we are glad to expand his audience to include members from TACNY and the general public as well. This presentation will update you on the important developments in electric reliability since the Northeast Blackout of 2003.

The Federal Energy Regulatory Commission (FERC) is now in the business of regulating power system reliability . Effective June 2007, Electric Utilities in the United States, Canada and Mexico are subject to compliance with mandatory reliability standards under the Federal Power Act. Failure to meet the requirements of mandatory standards are punishable with financial penalties up to \$1,000,000 per day depending on the severity of the violation and the importance of the standard that was violated.

Herb Schrayshuen will describe the new regulatory environment that has been created and outline how utility companies plan to comply with the new mandatory requirements.

NOTE: This presentation qualifies as a John Sweet Lecture. Professor Sweet established a Sweet Lecture as part of the Technology Alliance of Central New York(TACNY)'s mission for the development of technology presentations benefiting the Central New York community. This presentation is free and open to the public.

Due to the limited space available and the overwhelming popularity of this speaker, please email your reservations to programs@tacny.org.

Lite refreshments(pizza, soda, water) will be available prior to the presentation just outside the auditorium

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

NEWSLETTER

SEPTEMBER 2006

President's Message - Mike Hayes, PE

As a reminder, please mark you calendars for the Central New York Engineering Expo on Monday, November 6, 2006 at the Holiday Inn in Liverpool. Please see the schedule below and on the chapter's web site at www.cnype.org. You have an opportunity to earn six or seven PDHs. The cost will again be \$80, including lunch. I am trying to arrange for a lunch speaker, which would allow us to offer 7 PDHs; 6 will be offered if there is no lunch speaker. The www.cnype.org will provide a link to the online registration site.

Credit cards will be accepted only for online registration. Checks or cash will be accepted "at the door" at the higher late registration fee of \$100.

There was enough interest in my proposed "Electrical Power System Engineering Overview for non-Electrical Engineers" course that we'll offer it next spring. It will probably start next spring in the latter part of April. I'm still a "tax guy" as well as an engineer, so it will be after April 15th.

Calendar

Date/Time	Topic	Speaker	Location	Cost	Contact
10/17/06	Hospital Design	Frederick Sanczawa, P.E.	SUNY Upstate Medical University, Syracuse	\$10 With Lunch	Mike Hayes, 455-2000 mhayes@cscos.com
11/6/06	Various	Various	Holiday Inn, Liverpool	\$80	2006 CNY Engineering Expo. 6 or 7 PDH.
Jan 07	TBD	TBD	TBD	TBD	Joint with AIA & ACEC. Meeting @ Ashley-McGraw (tentative). "PDH" dinner.
Feb 07	TBD	TBD	TBD	TBD	Joint with AIA & ACEC. Meeting. location TBD. "PDH" lunch & Engineers' Week meeting.
Mar 07	TBD	TBD	TBD	TBD	Joint with AIA & ACEC. Meeting @ Wyndham (tentative). "PDH" lunch.

NSPE Meeting Announcement

Date/Time	Topic	Speaker	Location	Cost	Info/Contact
Apr 07	TBD	TBD	TBD	TBD	TBD "PDH" luncheons.
May 07	TBD	TBD	TBD		TBD "PDH" luncheons.

Topic: HOSPITAL DESIGN

Speaker: Mr. Frederick Sanczawa, P.E.

Location: SUNY Upstate Medical University
Campus Activities Building, Room 122
Syracuse, New York

Date: Tuesday, October 17, 2006

Time: Lunch – 11:45 AM
Presentation - Noon

Cost: \$10

An overview of current healthcare mechanical systems design practices with focus on hospital HVAC systems. Includes overall design goals, New York State codes and system design criteria. Specific considerations addressed in a discussion of the infectious isolation room HVAC design approach used at Upstate Medical University's Children's Hospital.

Reservations: Mike Hayes, 455-2000, mhayes@cscos.com, by October 13, 2006.

There will be one PDH offered for this presentation.

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.**

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.

President's Message

I'm writing this from 34,000 feet over the U.S. southeast, heading home from DFW (Dallas/Fort Worth Airport for the not-so-frequent flyers). The departure was delayed 15 minutes due to an issue docking the jetway with the plane. As the P.A. system crackled to life, it was announced that it was believed that a (hardware? software?) reset was all that was necessary to begin the boarding process. Based on the murmur of the crowd, many felt this delay was "typical." As a very frequent flyer, I know that this is a rare event. How did the passengers in the boarding area reach a point where an unusual technical glitch was considered typical? In all my years of travel, not once have I heard an announcement that the jetway and jet mated perfectly, followed by the crowd acknowledging the wonder of being able to pair this disparate duo.

Pick up the phone. No dial tone. Call Verizon (from the neighbor's house) and complain. When was the last time someone picked up a phone, amazed that somehow, somewhere this act was acknowledged and rewarded with a dial tone? The general population has become too complacent, assuming technology will work every single time.

Can anyone recall the last time someone thanked a technologist for making something happen? Where are the technologist role models on television and film? Sure, the heroes of the film *Apollo 13* were engineers, but if there hadn't been a technology glitch during the mission to begin with, it would have been just another moon landing and ignored by Hollywood.

If you haven't been to the Milton J. Rubenstein Museum of Science and Technology lately, there is a wonderful film from Disney, presented by Lockheed Martin in IMAX format, called *Roving Mars* that celebrates the successful Mars Rover landings and subsequent exploration. Besides heralding the technology achievement, the movie also – subtly and likely unintentionally – demonstrates something else very exciting. *Apollo 13*'s engineers were all white males, early 30's, wearing white shirts and skinny ties, sporting crew cuts. In *Roving Mars*, the mission control center contains men and women of many different colors and ages. This diversity is the face of technology now and in the future. Visit our friends at the MOST and take in *Roving Mars* and/or the other IMAX films now being shown. Embrace technology and the technologists that made it happen!!

If you have seen a film where technologists and/or technology are prominently featured in a positive way, drop me a note at hollander@tacny.org, and I'll list them here next month!

Thanks.

Howie

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
Past President	Albert A. Brandenburg	234-3725
Technologist Editor	Maria T. Welych	637-0663
Web Page Editor	Marjory Baruch	637-0033
Teacher Awards Chair	Dr. Vernon A. Tryon	343-9692

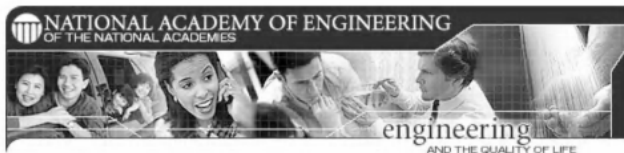
E-mail Contact Information

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
pastpresident@tacny.org
membership@tacny.org
technologist@tacny.org
webmaster@tacny.org
teacherawards@tacny.org
jr.cafe@tacny.org

Website of the Month

www.nae.edu/nae/diversity.com.nsf?OpenDatabase



Engineering Diversity

The mission of the National Academy of Engineering diversity program is to increase the diversity of the U.S. engineering workforce through developing a strong domestic talent pool. The scarcity of women and underrepresented minorities in U.S. engineering classrooms, research laboratories, design studios, and corporate boardrooms limits the range of ideas/solutions in immeasurable but significant ways.

Teacher Award Nominees Sought

Nominations are being accepted for the Technology Alliance of Central New York's 19th annual Teacher Awards. Up to five teachers of math, science and technology education in Cayuga, Cortland, Madison, Onondaga and Oswego counties will be selected for the awards.

This year, TACNY has doubled the amount of the award, from \$500 to \$1,000 for each winner. TACNY has given out 91 awards for a total of \$45,500 in stipends. The winners will be honored at a dinner at 6 p.m. May 4 at the Ramada Inn on Buckley Road in the town of Salina.

The deadline for nominations is Oct. 10. Nominees will have until Nov. 27 to submit complete information forms and three letters of support. For more information or a nomination form, link to www.tacny.org/teacherawards/2007/index.html or contact Vernon Tryon at 343-9692 or vernon@tryon.com.

Spotlight on Space

The Milton J. Rubenstein Museum of Science & Technology and the New York State NASA Space Grant at Cornell University are hosting a four-lecture series highlighting space science from 7 to 9 p.m. on Thursday nights during the 2006-2007 school year. The series is aimed at middle and high school students and their families, but any Central New Yorker interested in space is invited to attend. No experience with intergalactic space travel is necessary.

The lectures:

Oct. 19: The Magnificent Universe

Speaker: Yervant Terzian, professor in Cornell University's Department of Astronomy

Nov. 16: Galaxies and Quasars

Speaker: Terry Herter, professor in Cornell University's Department of Astronomy and director of the Center for Radiophysics and Space Research

Feb 8: Radio Telescopes and the Search for Life in the Universe

Speaker: James Cordes, professor in Cornell University's Department of Astronomy

April 5: Speaker and topic to be announced

Build 'Em and Bust 'Em

The Milton J. Rubenstein Museum of Science and Technology will be the site of the fifth annual Build 'Em and Bust 'Em competition 8:30 a.m. to 1 p.m. Nov. 18. Students in grades four through 12 build a bridge and/or crane out of provided materials prior to the event, then bring the structures in for testing that day.

The competition is sponsored by the Technology Alliance of Central New York, the MOST, Syracuse University's College of Engineering and Computer Science, Lockheed Martin, the American Society of Civil Engineers and C&S Engineers.

For more information, see a flyer on the next page.

Page 11 of the Technologist

Junior Café Scientifique's Speaker Lineup

Founder Gwendolyn Maturo and organizer Peter Plumley have announced this year's speakers for Junior Café Scientifique, an interactive science talk for students in grades six through 12 and their families. The events are scheduled for 9:30 to 11 a.m. the third Saturday of the month at the Milton J. Rubenstein Museum of Science and Technology.

The lecture series, which is sponsored by TACNY, is modeled after the International Café Scientifique, which began in Britain, and is among few Junior Cafes in the United States. The program features a brief talk by a guest speaker on a current science, mathematics, engineering or technology topic. This is followed by a snack, then questions. At the conclusion, attendees are invited to tour the MOST free of charge.

Oct. 21: Nanotechnology: Little Things, But Big Science
Speaker: Tewodros Asefa, a chemistry professor at Syracuse University

Nov. 11: Workplace Detectives: A Day in the Life of an Epidemiologist and Industrial Hygienist
Speaker: Dr. Shannon Magari of Colden Corporation

Dec. 16: Erie Canal's Engineering Story
Speaker: Sam Clemence, a professor at Syracuse University

Jan. 20: Totally Hip: The Science of Joint Replacement
Speaker: Julie M. Hasenwinkel, a professor at Syracuse University

Feb. 17: Viruses and the Diseases They Cause
Speaker: Marvin Druger, a professor of biology and science education at Syracuse University

March 17: Computer Science: The Science of MP3 Players, Computer Games, Space Exploration and more
Speaker: Jae Oh, a professor at Syracuse University

April 21: Predicting Catastrophic Rainfall in Syracuse
Speaker: Theodore A. Endreny, a professor at the State University College of Environmental Science and Forestry

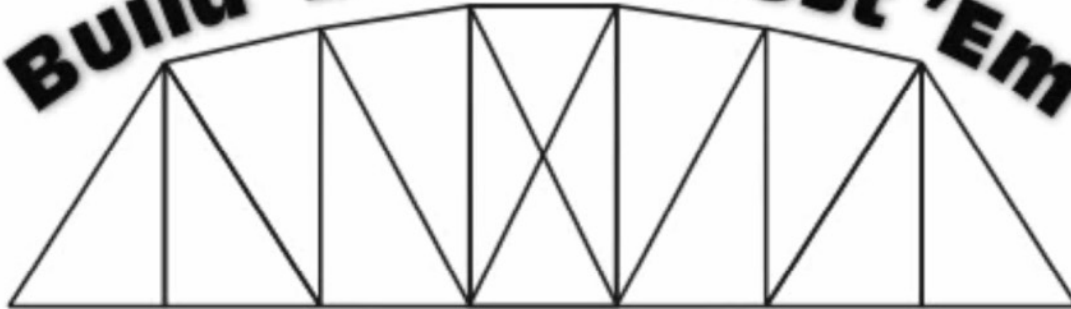
May 19: Preparing to be an Explorer: Exploring Careers in Science
Speaker: Tiffany A. Koszalka, a professor at Syracuse University



Syracuse University Professor Eric Schiff demonstrates how a solar cell works at the Sept. 16 Junior Café Scientifique event.

TEST YOUR ABILITY IN ECONOMICS, TEAMWORK AND DESIGN

Build 'Em and Bust 'Em



Bridge Building Contest

Saturday, November 18, 2006

8:30 AM – 1 PM

at the

MILTON J. RUBENSTEIN **MUSEUM OF SCIENCE & TECHNOLOGY**

ARMORY SQUARE, DOWNTOWN SYRACUSE

Teams of two-to-three students from grades 4 through 12 are eligible. The contest includes three levels of participation.

CATEGORY 1 (grades 4-6) teams will design and build a bridge.

CATEGORY 2 (grades 7-8) and **CATEGORY 3** (grades 9-12) teams will design and build a bridge and/or a crane.

Pick up required materials at the MOST after you register. Once you receive your materials, you will build and test your bridge and/or crane for strength and durability. On Saturday, November 18, faculty, staff and students of Syracuse University's College of Engineering & Computer Science and other sponsor members will weigh and test your structure. Prizes will be awarded to winners in each category.

Register Your Team at
www.most.org/registrations

For more information,
contact Peter Plumley at pplumley@most.org
or 315.425.9068 x2163

STRUCTURAL SUPPORT

LOCKHEED MARTIN



MOST*



TACNY Technology Alliance of Central New York

**Sweet Lecture:
Learn the Benefits of ‘Going Green’**
6:30 p.m. Oct. 3, 2006

TACNY is sponsoring a presentation and tour of the Enable building from 6:30 to 8 p.m. Oct. 3 at the building, 1603 Court Street, Syracuse. The presentation, entitled “Why Build Green?”, and tour will be given by Tracie Baule-Hall, the former development director at Enable who currently is executive director of the Upstate Chapter of the U.S. Green Building Council.

The Enable Building was recently honored as a Technology Project of the Year at TACNY's 2006 Celebration of Technology Banquet.

This tour and presentation will address the questions surrounding the environmental issues of the green building initiative. Hall will discuss the human health and performance expectations as well as address the value engineering issues associated with the decision to implement this technology for Enable.

The event is limited to the first 80 people to register. Due to the limited space available, please e-mail your reservation as soon as possible to programs@tacny.org.

**Sweet Lecture:
Engineering Career Serves as
Training Ground for Writer**
6:30 p.m. Oct. 25, 2006

Love a mystery? Then be sure to catch a Sweet lecture by Stanley Wilczek Jr., a retired nuclear engineer who recently published his first novel, “The Kept Secret.” He credits his success to a life-long interest using his skills as an engineer to create, design and communicate in an engaging and thoughtful manner, and will talk about his experiences from 6:30 to 8 p.m. Oct. 25 at Whitney Applied Technology Center on the Onondaga Community College campus.



Wilczek 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 about Wilczek and some of his works, link to

<http://www.stanwilczekjr.com>.

The presentation is free and open to the public. Due to limited space, please e-mail reservations to programs@tacny.org.

HMT, INC.
High Voltage
Maintenance Specialists

CONTINUING NEED FOR:

Electrical Engineers:
• Protection • Substations • Maintenance

Electrical Technicians:
• Protective relays and systems
• Transformers • Circuit Breakers

Apply by Email to:
officemngr@hmt-electric.com

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

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

Product & Materials Testing

IMR
TEST LABS

*A Division of Ithaca
Materials Research &
Testing Incorporated*

**131 Woodsedge Drive
Lansing Bus. & Tech. Park
Lansing, NY 14882**

Phone 607.533.7000
Fax 607.533.9210
Toll Free 888.464.8422
www.imrtest.com

- Chemists
- Metallurgists
- Failure Analysts
- Mechanical Test Specialists
- Salt Fog Testing
- Full Machine Shop
- Product Testing
- Polymer Analysis

October 2006 Technologist
Distributed to over 1,000 professionals!

Technologist Contact Information

Editor (also IEEE)	Brian O'Hern	697-2352	b.ohern@ieee.org
President IEEE	Michael R. Hayes, P.E.	455-2000	mhayes@cscos.com
President TACNY	Howie Hollander	456-6287	hollander@tacny.org
President NSPE	Michael R. Hayes, P.E.	455-2000	mhayes@cscos.com
Editor TACNY	Bill Busher	434-1242	Bill.Busher@Inficon.com
Editor NSPE	Dick Simberg	245-4661	NBDICK@hotmail.com

**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.

Technologist 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

Recyclable

