

Technologist

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

SYRACUSE AREA TECHNICAL SOCIETIES COUNCIL

ACM - Association of Computing Machinery	Gerry T. Volger	Chair	433-1904
ACS - American Chemical Society	Steven Keller	Chair	
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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, Refrigeration, & Air Conditioning	David Wildrick	Chair	446-1375
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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	Mary Reidy	Pres.	428-5326
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. 7 No 7

March 2005



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

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The Central New York Association of Professional Geologists www.CNYAPG.org

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Syracuse Section • Syracuse, New York



Technologist

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2. More Articles Take to Online Preview
3. Telecommunications Pioneers Tell Their Stories in New Book
4. Scout's Honor: Engineering Is Cool
5. The Institute Seeks Members Involved in Post-Tsunami Re-building
6. Marketplace of Ideas: A Place in Space
7. IEEE Members Get Discount on Intel Developer Forum
8. Register Now for Student-Made Video Competition

1. Virtual Society Provides Real Benefits

For a society formed only a year ago, the IEEE Product Safety Engineering Society has quickly become popular. At the end of 2004, it had 474 members, a 138 percent jump from the 198 members with which it began the year.

2. More Articles Take to Online Preview The number of IEEE transactions and journals that post articles online before they're available in print has soared over the last four years. Thirty-three publications now offer such article previews, up from just one in 2001

3. Telecommunications Pioneers Tell Their Stories in New Book "The Marconi Century," written by staffers from the IEEE History Center, chronicles the work of the innovators behind the telecommunications achievements of the last 100 years, from wireless telegraphy and radio to the Google search engine. The book also contains interviews with many of the pioneering scientists and engineers behind some of the more recent advances

4. Scout's Honor: Engineering Is Cool

IEEE Member Ralph Russell is scouting around for the next generation of electrical engineers and he's finding them through his work with the Boy Scouts of America. For the past 20 years, he's led a partnership between the IEEE and the Boy Scouts to promote the technological literacy of young people.

5. The Institute Seeks Members Involved in Post-Tsunami Re-

building If you or an IEEE colleague are helping to rebuild vital infrastructure in countries affected by the tsunami in Southeast Asia, or if you're developing systems to predict future tidal waves and provide early warning, The Institute wants to hear from you for an upcoming article.

Write to <<mailto:k.kowalenko@ieee.org>>

6. Marketplace of Ideas: A Place in Space

The Hubble Space Telescope's main batteries are likely to fail by 2009, putting the observatory out of action permanently. Should Hubble be serviced and saved or replaced and left for scrap? Why? Weigh in at <<mailto:institute@ieee.org>>

7. IEEE Members Get Discount on Intel Developer Forum

Register by 27 February and receive a US \$320 discount on registration to the conference, to be held 1-3 March in San Francisco. Topics covered will include innovations in systems and communications technologies. Also, stop by and visit the IEEE Spectrum and IEEE Computer Society booths, which will be on the exhibition floor at the conference.

8. Register Now for Student-Made Video Competition

Named after Leonardo da Vinci, VINNY is an award given to students from around the world in grades K-12 for the best one-minute videos explaining how science, technology, engineering, and mathematics can help solve such common problems as environmental pollution or food distribution. The IEEE Foundation is a cosponsor. Teachers must register a team of students by 15 February. The students will have to submit their video for judging by 1 April.

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.

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

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/>

Joint Empire Chapter IAEI and IEEE-PES/IAS

Presents



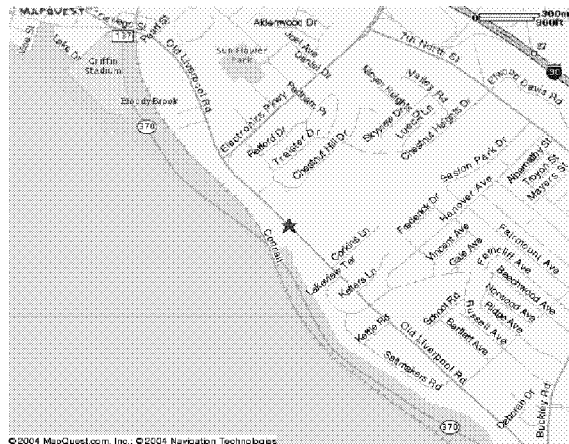
Technologist

"2005 NEC International Association of Electrical Inspectors Analysis of Changes"

Saturday March 19th, 2005

LeMoyne Manor, Inn & Banquet Center

629 Old Liverpool Road, Liverpool, NY 13088 (<http://www.lemoynemanor.com/>)



Directions:

Thruway - Exit 37 (Electronics Parkway), turn left onto Electronics Parkway, go 1/2 mile and turn left on Old Liverpool Road, 1/4 mile on right side across from Bresee Chevrolet

81 North - Exit 24B (Liverpool Exit), follow Old Liverpool Road straight, 1 mile on left side

81 South - Exit 25 (7th North Street), turn right onto 7th North Street, straight for 1/2 mile, turn left onto Electronics Parkway, turn left onto Old Liverpool Road, 1/4 mile on right side

Airport - right on South Bay Road, left on Taft Road, straight for 1 1/2 miles, left on Henry Clay Blvd (turns into Electronics Parkway), straight for 3/4 mile, left on Liverpool Road, 1/4 mile on right across from Bresee Chevrolet

Break refreshments sponsored by City Electric. Donated door prizes are welcome!

AGENDA

7:30 - 8:00AM Registration

8:00AM - 12 noon Seminar with 3, 10 min. breaks

12 noon - 1PM Lunch

1 - 3PM Seminar, Q&A, and CEU, PDH issues with 1, 10 min. break

3 - 3:30PM Empire Chapter IAEI E-board meeting

Presenters: Neil LaBrake, Jr., PE from Niagara Mohawk, a National Grid Company
Michael Miers, Sr. from NY Atlantic Inland
Ralph Best, PE retired from Niagara Mohawk
Jeff Sargent, NFPA Electrical Engineering
Larry Kinne, Commonwealth Electrical Inspection Service
Tim Thomas, Commonwealth Electrical Inspection Service

Description:

This in depth analysis from IAEI will cover the major changes in the articles of the new 2005 NEC. A copy of the 2005 NEC IAEI Analysis of Changes will be provided at the seminar. **IAEI CEU's (0.6 CEU) to be issued to all participants and 6 PDH credits are available for NY Professional Engineers that participate.**

Please **RSVP** to **Larry Kinne**, Secretary/Treasurer Empire Chapter IAEI, 7910 Rinaldo Blvd. W., Bridgeport, NY 13030 **Phone:** 315. 633.0027; **E-mail:** lkinne@twcnv.rr.com

Early **registration** is **\$110** (IAEI & IEEE members) or **\$125** (nonmembers) mailed by **March 11th, 2005** to **Larry Kinne** confirmed prior to 5pm, March 16th by completing the following:

Name _____ Employer _____

Address _____ City _____ State _____ ZIP _____

Phone _____ E-mail _____

IAEI & IEEE Members enter Membership # _____ **Send check(s) payable to Empire Chapter IAEI.**

\$145 registration received March 17th - 19th, 2005 (no discount for members).

The 2005 NEC books can be ordered separately from NFPA at <http://www.nfpa.org/catalog/>

(Members receive bi-monthly IAEI magazine & discounts on code books & seminars. Apply to be a member!)



Institute of Electrical & Electronics Engineers Syracuse Section

Fellows' Night

Date: Tuesday, April 12, 2005

Topic: Experiences in Afghanistan & IEEE Update

Speaker: Col. Barry Shoop, IEEE Region 1 Director

Location: Genesee Grande (previously Genesee Inn)
1060 East Genesee Street, Syracuse, NY
(corner of E. Genesee St. & University Ave.)

Schedule: 5:30 PM – Networking
6:00 PM – Dinner
7:00 PM – Presentation

Cost: \$20 Members & Public
\$5 IEEE Life Members & IEEE Student Members plus 1 guest

Reservations: Mike Hayes
Phone: (315) 455-2000
Email: mhayes@cscos.com

Central to nation-building efforts in Afghanistan is the need to create new national military institutions that are founded on principles that support a new constitution and are compatible with the liberal democracies they will ultimately serve. The key to this effort is to create institutions that will foster the inculcation of the concept of service within their nascent officer corps. Rather than expecting to be served by society because of their position, officers in the new Afghan National Army (ANA) must understand and embrace the concept that they are servants of society. This concept of national service contrasts sharply with the history of militias loyal to specific ethnic groups or individuals. To help create these institutions in Afghanistan, coalition and Afghan leaders turned to the U.S. Military Academy at West Point.

COL Barry L. Shoop spent the summer of 2004 in Afghanistan helping to establish the National Military Academy of Afghanistan (NMAA). COL. Shoop will discuss his experiences in Afghanistan, including his work to help establish the NMAA. His "boots-on-the-ground" perspective is much different than what you get from watching TV news. As Director-Elect of Region 1, COL Shoop will also provide insight into what IEEE is doing at the Regional, National, and International level.

Barry L. Shoop is a Colonel in the U.S. Army, Professor of Electrical Engineering, and the Electrical Engineering Program Director at the United States Military Academy at West Point. He earned the BS degree from the Pennsylvania State University in 1980, the MS from the US Naval Postgraduate School in 1986, and the Ph.D. from Stanford University in 1992, all in electrical engineering. He is a Fellow of the OSA and SPIE and a Senior Member of the IEEE. He spent the summer of 2004 in Afghanistan helping to establish the National Military Academy of Afghanistan.

Everyone is welcome to attend this meeting.



Conference Announcement and Call for Papers

Telecommunication Networking Conference

April 26th, 2005

SUNY Institute of Technology

Utica, NY 13504

**Invited Speaker: Dr. Paul Polishuk, President of IGI Group
State of the Telecommunication Industry**

(See Biography Below)

The First Annual Telecommunication Networking Conference at SUNY Institute of Technology is soliciting papers for both oral and poster presentation. The scope of this conference will be focused around topics within the area of telecommunication networks from both industry and university. Papers on new equipment, system concepts, methods, standards, hardware, components and Intellectual property are encouraged. A short list of topics follows, but other topics within telecommunication networks are also appropriate. Papers of a tutorial nature are also encouraged.

Topics of Interest

Optical Networks
Wireless Networks
Wired Networks
Protocols

Applications
Information Assurance
Public Safety
Telecommunication Policies

Invited Speaker

Dr. Paul Polishuk, President of IGI Group

Dr. Paul Polishuk is President and Chairman of the Board of the IGI Group of Companies, which includes IGI Consulting Inc., Information Gatekeepers Inc., IGICOM and twelve overseas offices. Information Gatekeepers Inc., the original company of the Group, was founded in 1977. Dr. Polishuk has been involved in analyzing, studying, lecturing and promoting the fiber optics industry around the world. He has been and is involved in numerous studies involving the design of fiber optics networks, markets for submarine fiber optic cable, plastic fiber optics, SONET/SDH, video-on-demand, ATM and the application of fiber optics in such industries as the electric utilities. A number of his recent assignments have involved acquisitions, transfer of technology, joint ventures and new fiber optic start-up ventures. Dr. Polishuk has traveled extensively and has lectured on fiber optics in China, Russia, Eastern Europe and Africa. He has advised governments on technology policy with regard to fiber optics, such as the United States, Russia, India and Bermuda. He was also responsible for the design of a data network for Korea which resulted in DACOM. From 1971-76, Dr. Polishuk was the Deputy Director of the Office of Telecommunications at the US Department of Commerce, Acting Deputy Director of the Office of Telecommunications Policy Development for the White House and was Director of the Office of Telecommunication's Policy Support Division which was responsible for Telecommunication Policy Development for the White House.

Conference Cost: \$50 per person, \$35 per student. Lunch will be included. Please contact Ms. Connie Castellano at 315-792-7819 to register (Visa/MasterCard/Check/Money Order Accepted).

Location: SUNY Institute of Technology, Utica, NY

The timeframe for the oral presentations will be 15-20 minutes. Registration begins at 8:30 am and the conference starts at 9 AM in the Campus Center CAT's Den.

Paper Submission: Please submit electronically a 1 page abstract by March 15th in MS Word to: Dr. Kevin Lefebvre
Assistant Professor, Conference Chair
Telecommunication Department, SUNY Institute of Technology
lefebvk@sunyit.edu



CALENDAR

Date	Time	Topic	Speaker	Location
March 10, 2005	6:00 PM	Celebration of Technology Banquet – Mars Rover	Robert Sullivan	Holiday Inn Electronics Pkwy, Liverpool
March 19, 2005	7:30 AM (Registration) Joint w/IAEI	2005 National Electrical Code Analysis of Changes (6 PDHs available for NY PEs)	Various	LeMoyne Manor 629 Old Liverpool Rd, Liverpool
April 2, 2005	1:00 PM Joint w/TACNY	Tour of Residential 10 kW Wind Turbine Distributed Generator	Rose & Doug Ryan	Harvest Home Organics, 4574 Duryea St., Moravia, NY
April 3, 2005	10:00 AM	Greater Syracuse Scholastic Science Fair	N/A	OnCenter 515 Montgomery St, Syracuse
April 12, 2005	TBD	IEEE Region 1 2005 Student Conference	Various	SUNY Buffalo
April 12, 2005	6:00 PM	Fellows' Night Experiences in Afghanistan & IEEE Update	Barry Shoop	Genesee Inn 1060 East Genesee St, Syracuse
April 2005	TBD	Syracuse University College of Engineering & Computer Science Open House	Student Projects	Link Hall, Syracuse University
May 2005		TBD	TBD	
June 2005		Joint Sections Meeting	TBD	



If your last job search prior to 2001, you may be in for a rude awakening. You might be surprised to find that your old resume, which worked well for you before, is no longer attracting employers, headhunters and corporate recruiters. If you wondered, “What am I doing wrong?” it might not be you—it’s probably your resume.

There are three reasons your old resume may not be working for you:

- Drastic increase in competition
- Changes in technology
- Changes in your industry

1. Drastic increase in competition

Increased candidate competition is the #1 reason your resume is no longer working.

While current employment outlooks are marginally brighter, competition is still so high that your resume must be able to stand out against a mountain of candidates.

The best way to enhance your competitive standing against other job seekers is through strong accomplishment statements. Accomplishments are most effective when:

- They illustrate your transferable skills
- They show your contribution to corporate bottom-line objectives
- They are stated quantitatively

If you are confused about how to state your accomplishments effectively, consider hiring a professional resume writer. Correctly written statements will make your accomplishments shine—and you’ll be more likely to land those critical interviews.

2. Changes in technology

Is your resume ready for the high-tech world? Probably not, if you are still snail-mailing or faxing your resume to potential employers. Are you willing to take a chance on your resume being tossed, just because you didn’t take the time to prepare your resume for an electronic audience?

With dramatic increases in the number of resumes received, many employers have invested in software to manage resumes and candidate responses. It is entirely possible that a computer, not a person, will be the first one to screen your resume. The electronic eye is much more objective than the human eye; it scans only for industry-specific terminology and keywords in qualifications and responsibilities.

Here are some critical questions to ask about your resume:

- Does it contain the right keywords to put you in the “interview” pile?
- Will new resume software be able to read its formatting correctly?
- Will your tables, fonts, and graphics transmit properly in an online resume form—or will they disintegrate into unreadable symbols?

You can give your old resume a real boost by investing in the services of a professional resume writer who understands the pitfalls of our electronic job market. Whether your resume needs a brush-up or a complete rewrite, it’s well worth the investment to make sure your name makes it to the top of all candidate lists.

3. Changes in your industry

If you are still just tacking your most current job onto the same old resume, then your resume probably contains a lot of old terminology and buzz words. If so, it will make you look outdated—even over the hill. It may also fail to be recognized by software that uses keywords to retrieve the best resumes.

If you’re feeling out-of-step with your industry, it may be time for a checkup with a career coach who can help prepare you and your resume to stand up to the challenges of your industry’s changing trends.

Bottom line: if your old resume that no isn’t winning the attention of employers, then it’s time to ask yourself, **“How much is my old resume costing me in wasted time and effort?”**

An investment in professional resume help could mean the difference between months of fruitless effort—and landing the perfect new job. A new, better resume built on strategies that are suited to today’s job-search challenges may be just the edge you need to get you noticed and get you hired.

Sweet Lecture on “Got wind?” Tour of a Residential 10kW Wind Turbine Distributed Generator

1:00 – 4:00PM Saturday, April 2nd, 2005

Harvest Home Organics, 4574 Duryea Street, Moravia, NY - Between Skaneateles and Owasco Lakes

Cost: Free and open to the public; refreshments included

OVERVIEW:

Owners, Rose & Doug Ryan of Harvest Home Organics are sponsoring a site tour of their new 10kW wind turbine generating system operating in parallel with the Niagara Mohawk utility supply service.

This is an informational open house to the public in celebration of the Ryan's new distributed generator system. The turbine is used to produce electrical energy used on their small farm. On hand will be the installers, engineers, funding partners and others who made the project possible. Huge financial incentives are available in New York State for farms, schools and individuals looking to supplement their electrical needs through small wind technology. Come ask questions!

SPEAKERS:

Rose & Doug Ryan of Harvest Home Organics (Harvesthome@usadatanet.net; 315-497-0351), owners. Representatives from Sustainable Energy Developments (www.sed-net.com; 518-895-5440), installers. Neil LaBrake, Jr., PE, Customer Facilities Engineer, Niagara Mohawk, a National Grid Company, utility. Funding partners and others.

CONTACT INFORMATION to ATTEND: (*Reservations are required by 5PM, March 31st, 2005.*)

Neil F. LaBrake, Jr., PE

Niagara Mohawk, a National Grid Company

Electric Distribution Planning & Engineering – NY Central, Customer Facilities

300 Erie Blvd. West, Bldg. D-1

Syracuse, NY 13202

PHONE: 315.428.6133; **FAX** 315.460.8996

Email: Neil.LaBrake-Jr@us.ngrid.com

DIRECTIONS:

The farm is located on the east side of Owasco Lake approx. 5 miles north of Moravia, (east onto Duryea Street, all the way to the top of the hill, #4574). Park at the gay barn.

CENTRAL CHAPTER NY STATE SOCIETY OF PROFESSIONAL ENGINEERS

NEWSLETTER

March, 2005

President's Message - Mike Hayes, PE

I want to encourage everyone to attend the Seventh Annual Celebration of Technology Banquet, which is being held on Thursday evening, March 10, 2005 at the Holiday Inn in Liverpool. Please see the TACNY section of the newsletter for more details. Information is also on TACNY's web site at www.tacny.org.

I am pleased to announce that **Jon Edinger, P.E.** has been selected as our **Engineer of the Year**. In addition, one of our own, **Tim Taber**, has been selected as **Young Technologist of the Year**. We will be presenting both awards at this function.

That's it for this month. I hope to see you at the Celebration.

SCHOLARSHIPS

Your chapter is awarding three \$1000 scholarships to these outstanding students:

Brianna Carges, E. Syracuse-Minoa (Chemical Engineering)
Alexander Karas, Fayetteville-Manlius (Mechanical Engineering)
Michael Lee, Jamesville-Dewitt (Biomedical Engineering)

Calendar

Date/Time	Topic	Speaker	Location	Cost	Contact
3/10/05 6:00 PM	Celebration Technology Banquet – Mars Rover	Robert Sullivan	Holiday Inn, Liverpool	\$30 (before 3/4/05, \$40 after)	Mike Hayes 315-455-2000 mhayes@cscos.com
6/27/05* 5:30 PM (Joint with CSI & AIA)	Last Hour Before Bid Opening	Panel Discussion	Craftsman Inn, Fayetteville	\$25.00 Includes dinner	RSVP by 3/24/05 to Frank Carleo (Robson and Woese) 315-445-2650 fcarleo@robsonwoese.com

11/14/05	CNY Engineering Expo 2005	Various	Holiday Inn, Liverpool	TBD	Mike Hayes 315-455-2000 mhayes@cscos.
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*Please note the revised date, which is still tentative, for the joint meeting with CSI (in June, instead of March 2005). Meetings for April and May 2005 are TBD.

MATHCOUNTS

Our local MATHCOUNTS competition was held at Syracuse University on Saturday, February 5, 2005. We had ten schools from the Central New York Chapter's area and five from the Oneida/Mohawk Chapter's area. The top participating schools (shown in **bold**) were as follows:

CNY Chapter

Driver

Durgee

Eagle Hill

Loving Education at Home

Manlius Pebble Hill

Onondaga Hill

Otto Shortell

Roberts

Syracuse Academy of Science

Wellwood

Oneida/Mohawk Chapter

Clinton

Holland Patent

Ilion

Ralph Perry

Sauquoit

The top schools are shown in bold above. The top schools from each chapter advance to the NY State competition at RPI in Troy, NY in March 2005. The top individuals from each chapter were:

<u>CNY Chapter</u>	
<u>Individual</u>	<u>School</u>
Yipu Wang	Wellwood
Vivek Nayar	Eagle Hill
Xiao Zheng	Wellwood
Aaron Stauter at Home	Loving Education
Jihoon Yang	Eagle Hill
Vikram Nayar	Eagle Hill
Jessica O'Laughlin	Driver
Steven Barash Hill	Manlius Pebble Hill
Sara Bauer	Durgee
George Wanfried	Otto Shortell
Hannah Weeks	Driver
George Wong	Onondaga Hill

<u>Oneida/Mohawk Chapter</u>	
<u>Individual</u>	<u>School</u>
Akhil Reddy	Ralph Perry
Greg Jo	Clinton
Michael Eisinger	Sauquoit
Thomas Swiderski	Sauquoit
Aaryn Coker	Ralph Perry
Michael Wiegand	Ralph Perry
Kerkira Stockton	Holland Patent
Matt Bunal	Holland Patent

WEBSITE

Check us out at <http://www.cnype.org/>. The site is kept up to date and includes the latest on meetings, continuing education and other details of our many professional activities. **IT INCLUDES A COMPLETE AND UPDATED SECTION ON CPC.** As with everything else concerning your Society, your comments are most appreciated.

THANK YOU

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

- Blasland, Bouck and Lee
- C&S Engineers Inc.
- Clough Harbour
- Klepper Hahn & Hyatt, PC
- Microwave Filter
- Stearns & Wheeler
- Syracuse Research Corporation.
- Syracuse Thermal Products
- Watkins Environmental Sciences, P.E., P.C.

Donations from firms and individuals are welcome and may be sent to:
CNYSSPE, c/o Microwave Filter Company, Inc.

6743 Kinne Street, E. Syracuse, New York 13057, Attn: Nancy Young.

For additional information please contact Carl Fahrenkrug,

carl-f@microwavefilter.com, 438 4722.

BOARD OF DIRECTORS MEETINGS

NSPE members are most cordially invited to attend all board meetings. Meetings are tentatively scheduled for noon on the first Thursday of each month. Those wishing to attend should contact Mike Hayes: (315) 455-2000 ext. 384; m.hayes@ieee.org to confirm time and date.

Our President's Voice –

I am currently swamped with work and the last thing I need to do is write the CNYAPG President's message. Two weeks ago I had the time, but the deadline was too far in the future for it to cross my conscious mind. Those of you in the environmental consulting business are probably all too familiar with these wild swings in workload and how if it is not due today it won't be worked on today. Those who are looking to get into the business, are you crazy J.

These working conditions are conducive for a client responsive, cost conscious business. Be there when your client needs something and turn it around quick so you don't have a chance to incur costs. Don't think about the fact that your client had the report for four weeks and now wants it revised overnight. Don't think about the fact that fast ground water movement is 1 ft/day and so the need to rush a ground water study makes no sense from a technical point of view. As a scientist these working conditions are not what I would like for the careful study of a ground water problem. As a human these conditions are not the best to live a low stress lifestyle. But with some caffeine and good hard driving rock and roll I can be as insane as any other consultant.

I think my point really is the need to find a balance. A balance between business and science. A balance between speed and quality. A balance between work and Life. If I let myself be a scientist I would blow budgets and schedules. If I pay too much attention to business the science and quality of the work would suffer. I have found a balance so I can put out a work product in a short time without sacrificing the quality of the product. And most importantly with regards to my life I try to keep in mind a truth someone told me "On your death bed you are not going to wish you had spent more time working." Time with family is vital. Time with friends and alone keeps one sane and balanced. Vacations are important.

There is no one balance for everyone or even for all times in one's life. When children are around, time with them is important. When one is first starting a job, work is important. Different clients put different priorities on

quality and low cost. So one is faced with constantly adjusting the balance. I encourage you to regularly take time to check your balance, to judge your priorities, to make sure you have a life outside work. It won't change the consulting business, but it might make you more effective or less stressed. Or, like writing this message, it was a way to procrastinate writing the report due today.

Guy Swenson
President

The 2004 - 2005 Board of Directors are as follows:

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

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

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

Calendar

www.hmpga.org	Hudson-Mohawk Professional Geologists' Association has monthly meetings with speakers. Check their website for the schedule.
http://www.bapg.org/	The Buffalo Association of Professional Geologists has monthly meetings with speakers. Check their website for the schedule.
March 24, 2005	CNYAPG Monthly Dinner Meeting: Donald Rodbell (Union College) Climate Change Research in the Tropical Andes: Science and Adventure Travel
April 17-20, 2005	Solution Mining Research Institute SPRING TECHNICAL CONFERENCE is in SYRACUSE, NY this year. Includes a field trip to Tully with W. Kappel. (USGS). For more information go to: http://www.solutionmining.org/cmsFiles/Files/Meeting_Announcement_Syracuse_2005_final.pdf
April 28, 2005	CNYAPG Symposium – Isotopic Geochemistry: This will be a day-long symposium with invited nationally known speakers. More details will follow.
May 12, 2005	Rosamand Gifford Lecture Series: Simon Winchester (Author and geologist). Author of Krakatoa: The Day the World Exploded; The Map that Changed the World. OnCenter 315 435-2121

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

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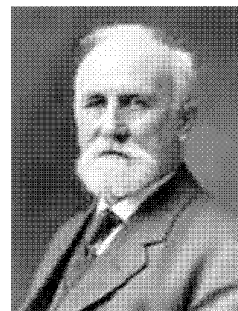


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<http://www.hq.nasa.gov/office/pao/History/alsj/frame.html>

-- Word-for-word transcripts, with annotations, and excellent image libraries, of the lunar portions of every Apollo mission, as well as an overview of the dramatic Apollo 13. A list of other NASA information on Apollo is here, including a compilation of resources on the Apollo 1 fire. Unique is the Apollo 15 Flight Journal, with many details of the launch through arrival in lunar orbit.



John Edson Sweet

Sweet was key to organizing the Technology Club, and ASME; his term was notable for its quiet and effective progress. He presented its first formal paper on "Friction as a Factor in Motive Power Expense."

Sweet was born Oct. 21, 1832, Pompey, New York. At age 18, he apprenticed to a carpenter and then an architect, and he had started working in the American South as an architect when the Civil War broke out. What then marked a change in direction for his career, he went to London in 1862, becoming a drafter at the International Patent Office.

Although he would often travel throughout his life, he returned in 1864 to Syracuse to live and work as an inventor, manufacturer, and author. He soon patented a nail-making machine (with his brother William), which they then manufactured for several years. Among his designs was a matrix printing machine, noted as a forerunner of the Linotype, which he exhibited at the Paris Exhibition of 1867. In 1872, shortly after designing his first steam engine, he became a professor of mechanical arts at Cornell University in Ithaca, N.Y.

Having become head of the shop department of Cornell University, he resigned in 1879 to manufacture his Straight-Line engine. His work with engine design was considered novel and ingenious. He also built the first micrometer caliper (1873) in the United States.

He died May 8, 1916, Syracuse, New York.



Sweet Lecture on The CASE Center A New York State Center for Advanced Technology (CAT)

6:00 – 7:30PM Thursday, March 31, 2005

Center for Science & Technology Room 1-218, Syracuse University Main Campus

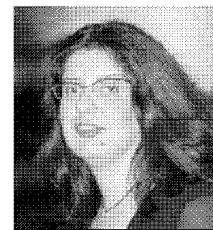
OVERVIEW:

The CASE Center is a New York State Center for Advanced Technology (CAT), supported in part by the New York State Office of Science, Technology & Academic Research (NYSTAR). CASE's mission is to contribute to the high technology economy of New York State within the broad information technology focus area of the Center, and through the utilization of the resources of Syracuse University. CASE accomplishes its mission through a variety of channels, including joint project work with New York State companies, incubation of high technology start-up companies, and workforce development initiatives. Among some of CASE's technology focus areas are high assurance software and systems (including cyber-security and verification), distributed networks and data mining (including sensor networks and information fusion), and wireless telecommunications (including electromagnetics and microwave technology).

The presentation for TACNY will highlight microelectronic systems, which have become an integral part of our everyday lives. The microprocessor, the most complex product ever manufactured, is a microelectronic system. In parallel to the unprecedented growth in size and complexity of these systems, new branches of research that focus on particular facets of microelectronic system design have emerged. In this talk, Dr. Nazanin Mansouri will present an overview of the research in microelectronic system design and computer-aided design (CAD) at Syracuse University. Currently, a number of CASE Center faculty members and students at the Department of Electrical Engineering and Computer Science conduct research in development of theory, practices and tools for design of the next generation of hardware (from all domains: digital, analog, or mixed digital-analog) and software systems, design verification and design automation.

SPEAKER:

Dr. Nazanin Mansouri
Dept of Electrical Engineering and Computer Science
Syracuse University
315.443.2483 (Voice), 315.443.1122 (FAX)
namansou@ecs.syr.edu
<http://web.ecs.syr.edu/~namansou>



Dr. Nazanin Mansouri is an assistant professor in the Department of Electrical Engineering and Computer Science and the director of System Level Integration and Verification Laboratory at Syracuse University. She received the B.S. degree in Electrical Engineering with Computer Hardware concentration from Iran University of Science and Technology in 1992, and the Ph.D. degree in Computer Engineering from University of Cincinnati in 2001.

Dr. Mansouri's research interests are primarily in the area of VLSI Design. In particular, the focus of her research team is on applications of formal methods in systems design, formal verification and the development of the theory and the electronic design automation (EDA) tools for design and verification of microelectronic systems. Dr. Mansouri is the associate editor of the International Journal of Modeling and Simulation, and a member of IEEE Computer Society and the ACM Special Interest Group on Design Automation (SIGDA). She is also a faculty member of the New York State Microelectronic Design Center (MDC), and the CASE Center's Institute for System Assurance at Syracuse University.

CONTACT INFORMATION to ATTEND: *(Reservations are required by 12noon, March 31, 2005.)*

Tami Britton, CASE Center 315.443.1060, tbritto@syr.edu

Parking will be in Lot Q4 at the Main Syracuse University Campus, call ahead for reservation.

Federal Highway Administration Bestows High Honors Upon Fisher Associates, P.C.

The U.S. Department of Transportation, Federal Highway Administration recently honored Fisher Associates, P.E., L.S., P.C. and president Claire Fisher, P.E., for her outstanding achievements as a Women's Business Enterprise. This award, given to only one firm in the nation, was based on Mrs. Fisher's involvement in the transportation industry and the firm's ability to compete for and win engineering contracts, develop strategic plans, and meet performance standards.

In her 20 years of business, Mrs. Fisher has taken the company from a small entrepreneurial firm to a professionally managed company with 58 employees and revenues exceeding \$4 million. The award was presented to her by Secretary of Transportation Norman Mineta at a November 30th conference held in Washington D.C.

"It was a thrill to be invited to Washington to receive this award, which I accepted on behalf of our company, our clients who have helped us to succeed, and woman-owned firms throughout the country who are competing in professional fields."

Organizational Spotlight

The American Society of Plumbing Engineers

The American Society of Plumbing Engineers (ASPE) is the international organization for professionals skilled in the design, specification and inspection of plumbing systems. ASPE is dedicated to the advancement of the science of plumbing engineering, to the professional growth and advancement of its members and the health, welfare and safety of the public. The Syracuse Section's Meetings are held the second Tuesday of the month at the Holiday Inn on Carrier Circle. For more information, go to their website at:

<http://www.geocities.com/Eureka/Plaza/7781/>

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Cornell University
On the Mars Exploration
Rovers "Opportunity"
and "Spirit"

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