

# 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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AIAA - American Institute of Aeronautics & Astronautics	John E. LaGraff	Chair	
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AIHA - American Industrial Hygiene Association	Tom McGiff	Pres.	607-255-5835
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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 8

April 2005



### The Syracuse Section of the Institute of Electrical and Electronics Engineers [www.ewh.ieee.org/r1/syracuse](http://www.ewh.ieee.org/r1/syracuse)

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### The Central New York Association of Professional Geologists [www.CNYAPG.org](http://www.CNYAPG.org)

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Syracuse Section • Syracuse, New York

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- 3. Stepping Up to Senior Member
- 4. Distinguished Career Parallels South Korea's Revival
- 5. Marketplace of Ideas: Agog Over Blogs
- 6. Half-Year Dues Now Available for Societies, Publications
- 7. IEEE Opens Search for Executive Director
- 8. Apply for a Job at Google Through IEEE Job Site

1. Information Free-for-All?  
 If open access -- a movement gaining momentum in academic publishing circles that proposes journal articles be made available online to all readers for free -- becomes a reality, the results could dramatically reshape the activities of all scholarly publishers, including the IEEE.

2. Readers' Survey: Thumbs Up for The Institute  
 Our readers had good things to say about the changes to format and content recently made to The Institute, according to a survey of IEEE members conducted late last year. Some 79 percent of respondents rate the publication's quality as excellent or good, a jump from the 70 percent who voiced the same opinion in a survey conducted in 2001.

3. Stepping Up to Senior Member  
 What does it mean to be a senior member of the IEEE? At the very least it means you've met some basic requirements: working 10 years in the profession, including five demonstrating significant professional performance, and you've received three supporting references from other IEEE senior members or fellows. But this tells only part of the story. Senior members often find

their status to be an asset in their careers.

4. Distinguished Career Parallels South Korea's Revival  
 IEEE Fellow Jung Uck Seo has played a pivotal role in South Korea's technological development by overseeing the design and installation of telephone and cellular networks that helped lay the foundation for the country's rise in broadband communications -- a linchpin of the nation's success.

5. Marketplace of Ideas: Agog Over Blogs  
 More and more people claim they get their news from the estimated four million Weblogs, or blogs. Do you read blogs? Why? Weigh in at [institute@ieee.org](mailto:institute@ieee.org)

6. Half-Year Dues Now Available for Societies, Publications  
 Now may be a good time to try out a new society. Dues on new IEEE society memberships are now half price. Or try out a new IEEE publication since rates are now discounted for new subscriptions.

7. IEEE Opens Search for Executive Director  
 The IEEE has initiated its search for a new executive director. If you have a strong business background with budget and management responsibilities at a senior level, you might want to consider applying for the position.

8. Apply for a Job at Google Through IEEE Job Site  
 The IEEE Job Site now has more than 5200 listings, including 100 positions posted by Google, the Internet search company. The company is looking for people with world-class programming skills who are passionate about their work and want to make a difference in the world, according to the posting.

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>

Members who need to UPDATE THEIR IEEE EMAIL ALIAS, may do so by going to: <http://eleccomm.ieee.org>

### 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](mailto: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>](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/>

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



**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](mailto:lefebvk@sunyit.edu)



## CALENDAR

Date	Time	Sponsor	Location	Topic
April 1	12:00 PM	IEEE Syracuse Section open to all members	Genesee Grande Hotel Syracuse	Syracuse Section Executive Committee Meeting
April 2	1:00 PM	TACNY & IEEE Syracuse Section open to all members & guests	Harvest Home Organics, see flyer for directions	Tour of Residential 10KW Wind Turbine Distributed Generator
April 3	10:00 AM	MOST & IEEE Syracuse Section open to all members & guests	OnCenter in Downtown Syracuse	Greater Syracuse Scholastic Fair
April 9 & 10	see program	IEEE Region I open to all	SUNY Buffalo	IEEE Region 1 2005 Student Conference
April 12	6:00 PM	IEEE Syracuse Section open to all members & guests	Genesee Grande Hotel Syracuse	Fellows' Night - Experiences in Afghanistan Col. Barry Shoop, Ph.D. Electrical Engineering Program Director US Military Academy West Point Director-Elect IEEE Region I
April 16	10:00AM - 4:00PM	Syracuse University College of Engineering & Computer Science	L.C. Smith College of Engineering & Computer Science	Open House with Undergraduate Engineering Projects showcased
April 26	9:00 AM	SUNY Institute of Technology, Utica, NY	SUNY Institute of Technology, Utica, NY	Telecommunication Networking Conference
June 16	6:00 PM	IEEE Syracuse Section open to all members & guests	Genesee Grande Hotel Syracuse	DNA technology- The Science behind the Application  Dr. Rita Calvo
September	date & time to be determined	IEEE Syracuse Section	to be determined	Family Picnic



## IEEE-USA 2005 YEAR-IN-REVIEW WEBPAGE, 2004 ONLINE ANNUAL REPORT COVER CURRENT, PAST CAREER ENHANCEMENT ACTIVITIES

**WASHINGTON (22 March 2005)**-- The IEEE organizational unit devoted to advancing the public good and promoting the careers and public-policy interests of U.S. IEEE members has unveiled two new online communications products: the 2005 year-in-review webpage; and the 2004 online annual report.

According to IEEE-USA Managing Director Chris J. Brantley, "The year-in-review webpage is designed to help IEEE-USA keep better track of our progress through the year, enhance communication with U.S. IEEE members, and provide volunteer members with a reference to help promote IEEE-USA." The page includes month-by-month highlights of IEEE-USA programs and activities such as important meetings, new product releases, policy advocacy efforts and outcomes, and other IEEE-USA milestones.

The year-in-review page is under continuous development, and can be seen at <http://www.ieeeusa.org/about/yearinreview.asp>.

Further, IEEE-USA has produced its first online annual report, which highlights the organization's efforts in 2004 when it was led by John W. Steadman, dean of the College of Engineering at the University of South Alabama in Mobile. Dr. Steadman ranked as his highest priority "communicating effectively with all U.S. IEEE members." He also cited "one of our continuing priorities...to combat unprecedented levels of unemployment among U.S. IEEE members."

**WASHINGTON (22 March 2005)** -- Insights and information on engineering careers for girls and young women are the focus of a one-day, around-the-clock Internet and teleconference marathon to be held on Thursday and Friday, 24-25 March. The "Global Marathon For, By, and About Women in Engineering" will run at the Engineers Week (EWeek) web site at <http://www.eweek.org>, from noon Eastern Time (ET), Thursday, 24 March, to noon ET Friday, 25 March.

Dr. Ayanna Howard, a senior robotics engineer at NASA's Jet Propulsion Laboratory in Pasadena, Calif., and an IEEE member who works on Mars rover designs, will discuss her job and how she can make robots better at helping people, during a 30-minute teleconference scheduled from 10-10:30 p.m. ET on Thursday, 24 March. To hear Dr. Howard describe her job, the toll-free call-in number is +1 866 617 1530, and the participant passcode is 3620389. Please note: only 20 callers can be accommodated in a telephone session.

Dr. Howard's position was one of 10 "dream jobs" described in the February 2005 issue of IEEE SPECTRUM. Read the SPECTRUM article at <http://www.spectrum.ieee.org/WEBONLY/publicfeature/feb05/0205djob1.html>.

Also participating for the IEEE's Women in Engineering affinity group are: Maryam Al Thani, on "Encouraging Young Women in Engineering in the United Arab Emirates" (Friday, 25 March, 1:30-2:00 a.m. ET); and Jyothi Ramaswamy, on "Being a Woman Engineer in India" (Friday, 25 March, 5:00-5:30 a.m. ET).

Other marathon highlights include a session on encouraging girls to go into engineering, led by astronaut Sally Ride, the first American woman in space.

The Global Marathon goal, says EWeek organizers, is to heighten awareness of science, technology, engineering and mathematics issues among precollege, college and young career women, as well as to address retaining women in college engineering programs and in the workplace.

The marathon kicks off with a session from the Republic of Trinidad and Tobago, sponsored by 2005 Engineers Week co-chair ASME, the American Society of Mechanical Engineers, and featuring Olympic swimmer Siobhan Cropper. The Society of Hispanic Professional Engineers (SHPE) will lead a chat on Latinas and technology. A conference originating in Scotland, and hosted by a woman engineer from BP, will examine transitioning from liberal arts to an engineering career.

Other marathon segments will originate from Qatar, India, China, Canada, and across the United States. Hosts for the final half hour on Friday, 25 March, from 11:30 a.m. to noon ET, are ASME and Engineers Without Borders, which brings sustainable, long-term benefits to impoverished communities around the globe.

A complete schedule of topics and speakers is available at <http://www.eweek.org/site/News/Eweek/24-hour.shtml>. For access information, go to the EWeek site at <http://www.eweek.org>.

IEEE-USA is an organizational unit of the IEEE. It was created in 1973 to advance the public good and promote the careers and public policy interests of the more than 220,000 technology professionals who are U.S. members of the IEEE. The IEEE is the world's largest technical professional society. For more information, go to <http://www.ieeeusa.org>.

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

**NEWSLETTER**

**April 2005**

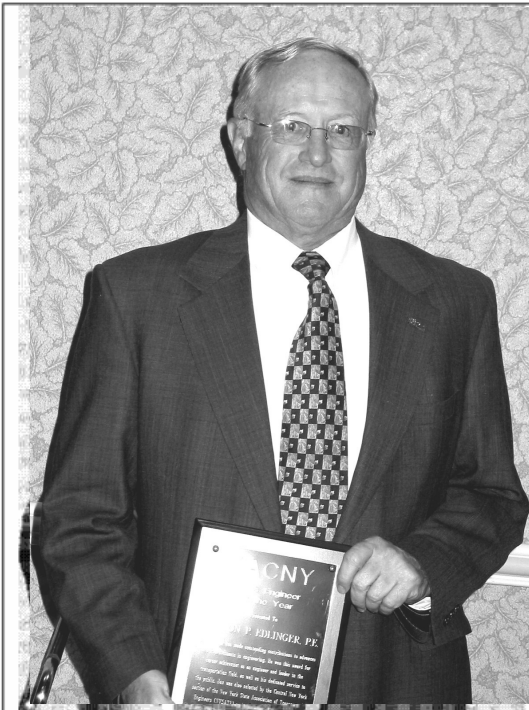
## **President's Message - Mike Hayes, PE**

As noted below, two fellow PEs were recognized for their outstanding achievements at the Celebration of Technology Banquet on March 10, 2005. Jon Edinger, P.E. received the Engineer of the Year award, and Tim Taber, P.E. received the Young Technologist of the Year award. We also presented certificates for \$1000 scholarships to Brianna Carges, Alexander Karas, and Michael Lee at the banquet. Over 200 people attended the Celebration. Dr. Robert Sullivan, our keynote speaker, gave a very interesting presentation about the Mars Rovers and exploration of Mars.

We will soon be starting to plan the 2005 CNY Engineering Expo, which will be held on Monday, November 14, 2005. The format will be similar to the 2004 Expo, and 6 PDHs will be available. Many participants requested that we have more frequent seminars so that PEs could more easily meet their continuing education requirements. Frankly, a lot of work went into the first Expo, and the committee, which was all-volunteer, didn't want to take that on. However, we are looking at partnering with more groups and having two education seminars a year. One would be the Expo. The other would be a half-day seminar in conjunction with the Celebration of Technology Banquet, which is tentatively planned for May 18, 2006. I welcome suggestions for topics and speakers, as well as any comments you might have.

No meetings are scheduled for April. However, you are invited to attend the IEEE Fellows' Night meeting on April 12. The speaker will be COL Barry Shoop, who is Director-Elect of the 40,000 member IEEE Region 1, which includes the northeastern U.S. COL Shoop will discuss his experiences in Afghanistan. You'll get a different perspective of what it's like there. The meeting is open to the public, and everyone is welcome to attend. See the IEEE section of the newsletter for more details.

# TWO CENTRAL NY PEs HONORED BY TACNY



**JON P. EDINGER, P. E.  
ENGINEER OF THE YEAR**

**TIM TABER P.E.  
YOUNG TECHNOLOGIST  
OF THE YEAR**

*Jon P. Edinger is the 2005 Engineer of the Year for the Central New York section of the New York State Association of Transportation Engineers (NYSATE). Jon is a recent retiree of the NYS Department of Transportation after more than 42 years of service. While working in the Rochester and Syracuse regions, Jon served the Department as an engineer, manager, and respected leader, ultimately retiring as Regional Director for the Central New York region.*

*Tim Taber has been one of the leading engineers in bringing the information technology innovation to civil engineering projects. Using his knowledge of computer technology with his knowledge of wastewater and water treatment processes, Tim has brought it all together to help facilities become more efficient. He has been active in various engineering societies to further the engineering profession. He has also helped the local community in many ways, including service as president of the Cazenovia Lion's Club.*



## Calendar

Date/Time	Topic	Speaker	Location	Cost	Contact
6/27/05* 5:30 PM (Joint with CSI & AIA)	Last Hour Before Bid Opening	Panel Dis- cussion	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.com

\*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.

## 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. We could not reward our outstanding young people who are pursuing careers in engineering without your support.

### 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.

## 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.

## 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 –**

Some time ago I learned a lesson from my son. He came home from baseball practice one day saying how lousy he was at the game. As a supportive parent I told him that he just had a bad day and not to let one day make him think he was a lousy player. His response was to say “Dad, can’t I ever just tell you how I feel.” My short-term lesson was to let my son tell me about his experiences without feeling I need to provide an answer or suggest ways to cope with his life challenges. But there is a deeper lesson that goes beyond parents and kids. People want someone to listen to them.

People want someone to listen to them and acknowledge what they say. Whether it is my personal life, my professional life, or just my daily interactions with others, I have found this lesson important. In my professional life I have found that when I listen to someone with an opposing point of view, professional debates become a more comfortable two way street. The other person becomes less stubborn in their position and I am better able to address the real issues in a creative manner.

Listening is hard especially when you disagree with the other person’s opinion. Listening does not just mean hearing them out while you plan your rebuttal. Listening means trying to understand their thought process and why they feel their point of view is important. Listening means asking questions until you can understand their opinion. Listening does not mean accepting their opinion. But by listening the other person feels that they have been heard and acknowledged. Listening may even allow you to recognize the real issue they are concerned about. For example I often find that “technical” discussions are less about the science than about the long-term project objectives.

Listening requires you to put aside your view of the world and try to understand that of another person. Listening can be dangerous because it may force you to change your opinion of the issue or of that person. Listening breaks down walls and can make future interactions smoother.

Now just so you don’t think that learning to listen is easy, I still find myself rushing to refute others, getting lost in a technical discussion, thinking my professional career is tied to a particular opinion, creating walls. It is very hard to listen. It is very hard to listen if you doubt your own opinion. It is much easier if you have confidence in the process and others and in your self.

Guy Swenson  
President

The 2004 - 2005 Board of Directors are as follows:

- Guy Swenson - [swensoga@obg.com](mailto:swensoga@obg.com)
- Jeff McKenzie – [jmmckenz@syr.edu](mailto:jmmckenz@syr.edu)
- Karen Cahill – [kacahill@gw.dec.state.ny.us](mailto:kacahill@gw.dec.state.ny.us)

- Joel Parratt – [jparratt@pwinc.com](mailto:jparratt@pwinc.com)
- Jim Mickam – [jtmickam.jtm@prodigy.net](mailto:jtmickam.jtm@prodigy.net)
- Maureen Whalen – [mwhalen@swredev.com](mailto:mwhalen@swredev.com)
- Bill McCune – [wtm@bbl-inc.com](mailto:wtm@bbl-inc.com)
- Kieran Hosey – [khosey@gesonline.com](mailto:khosey@gesonline.com)
- Nathan Pratt – [npratt@gesonline.com](mailto: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](http://www.cnyapg.org)! Membership is only \$25 per year and all money received is used for these newsletters and our monthly meetings.

**Calendar**

<a href="http://www.hmpga.org">www.hmpga.org</a>	Hudson-Mohawk Professional Geologists' Association has monthly meetings with speakers. Check their website for the schedule.
<a href="http://www.bapg.org/">http://www.bapg.org/</a>	The Buffalo Association of Professional Geologists has monthly meetings with speakers. Check their website for the schedule.
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: <a href="http://www.solutionmining.org/cmsFiles/Files/Meeting_Announcement_Syracuse_2005_final.pdf">http://www.solutionmining.org/cmsFiles/Files/Meeting_Announcement_Syracuse_2005_final.pdf</a>
April 28, 2005	CNYAPG Symposium – Isotopic Geochemistry: This will be a daylong 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
May 19, 2005	The CNYAPG presents Dr Barbara Tewksbury of Hamilton College. She will speak about “When the Seas Rise Up: A Geologist's Perspective on Tsunami”
May 20-22, 2005	68 <sup>th</sup> Annual Reunion of the Northeastern Friends of the Pleistocene: The Glacial and Hydrochemical Stratigraphy of the Onondaga Valley Aquifer of Central New York State: The Good, The Bad, and the Brine (If interested contact W. Kappel <a href="mailto:wkappel@usgs.gov">wkappel@usgs.gov</a> or (607) 266-0217 X3013)

**REGISTRATION FORM**

(Please complete one form for each person attending)

Name: \_\_\_\_\_

Company: \_\_\_\_\_

Address: \_\_\_\_\_

Phone: \_\_\_\_\_

Email: \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

**Conference Fee Schedule**

- \_\_\_\_\_ CNYAPG Members @ \$125.00
- \_\_\_\_\_ Non-Members @ \$150.00
- \_\_\_\_\_ Student @ \$75.00
- \_\_\_\_\_ CEU Certificate @ \$10.00

CNYAPG is applying to the American Institute of Professional Geologists (AIPG) for Continuing Education Credit (CEU) certification. If approved, AIPG certificates can be provided to attendees at a cost of \$10 per certificate. If you are interested in this certification please indicate such on your registration form (above) and include the additional \$10 fee.

Persons interested in taking advantage of the discount for members are encouraged to visit [www.cnyapg.org](http://www.cnyapg.org) for a membership application form to join CNYAPG.

Firms or organizations sending five or more people can deduct \$10.00 per person from their registration fee. For tracking purposes, you must attach a list of the other people attending this form.

Registration fee includes luncheon and proceedings.

E-mail confirmations with directions to the program will be sent to registrants.

**Please return your completed form by Friday April 1, 2005. Prompt notification of your intention to attend will greatly facilitate our planning for this great event.**

Your completed form and check (made out to CNYAPG) should be mailed to:

CNYAPG  
 PO Box 567  
 Dewitt, NY 13214

**For CNYAPG use:**

Paid: \$ \_\_\_\_\_ E-mail confirmation sent: \_\_\_\_\_

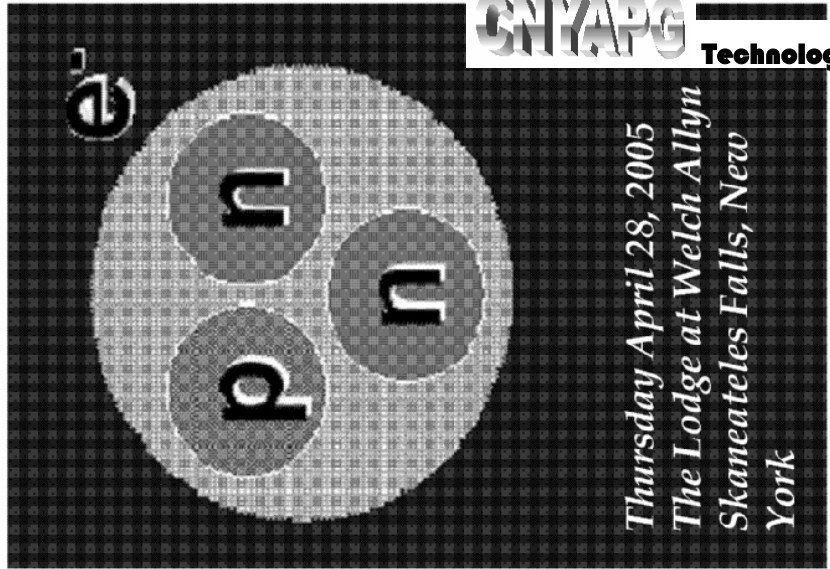
# CNYAPG Symposium Isotopic Geochemistry

**Presentations**

- *Introduction to Isotopic Geochemistry*
- *Environmental Applications of Isotopes*
- *Isotope Forensics*
- *Isotopes and Contaminant Degradation*
- *Isotopes and Climate History*
- *Origin of Halite Brine under Onondaga Lake*

**Posters**

- *Assessing the impact of ethanol on MTBE and BTEX biodegradation using compound specific isotope analysis*
- *Elucidating Pathways of Benzene Biodegradation In Subsurface Environments Using Carbon and Hydrogen Isotope Analysis*



Central New York Association of Professional Geologists  
 PO Box 567  
 Dewitt, NY 13214

The CNYAPG Spring 2005 Symposium celebrates 12 years of making a difference in Central New York. CNYAPG has a reputation for providing informative and timely one-day conferences and short courses on topical geologic issues. This year we have assembled a fascinating mix of speakers into one great symposium. The day covers the broad spectrum of isotopic geochemistry. Presentations by speakers who are leaders in the field of isotopic geochemistry will cover the use of isotopes in ground water flow investigations, contaminant forensics, and biodegradation. We finish the day with a Poster session. This is one program you will not want to miss.

**- Featured Topics -**

- Introduction to isotopic geochemistry.
- The use of isotopes for contaminant source identification and forensics.
- The use of isotopes to evaluate the degradation of organic contaminants.
- The use of tracers to date ground water.
- The use of isotopes to determine climate history.

**Date:** Thursday - April 28, 2005  
7:45 AM - 6:00 PM

**Location:** The Lodge  
4355 State Street Road  
Skaneateles Falls, NY  
315 291-3700

Registration fee includes symposium proceedings, coffee and snacks at breaks, and luncheon.

Due to space and meal limitations, attendance is limited to the first 90 registrants. To secure your attendance, return the enclosed registration form by Friday, April 1, 2005.

For more information, contact Dave Lay at 315 446-9120 (dlw@bbl-inc.com) or Guy Swenson at 315 437-6100 (swenson@obg.com), or visit our web site: [www.cnyapg.org](http://www.cnyapg.org)

7:45 Registration Begins  
8:00 - 9:30 Poster Session & Vendor Exhibit

9:30 - 11:30 Short Course:  
Dr. Don Siegel (Syracuse University)  
"Introduction to Isotopic Geochemistry"

Dr. Julie Sueker (Blasland, Bouck & Lee)  
"Isotope Applications for Contaminant Source Identification and Allocation"

11:30 - 1:00 Lunch

1:00 - 5:00 Invited Speakers

1:00 - 3:00 Dr. Sherwood Lollar (University of Toronto)  
"Use of Isotopes to Evaluate Contaminant Degradation"

Dr. Greg Slater (McMaster University) "Stable Isotope Forensics - When Isotopes Work"

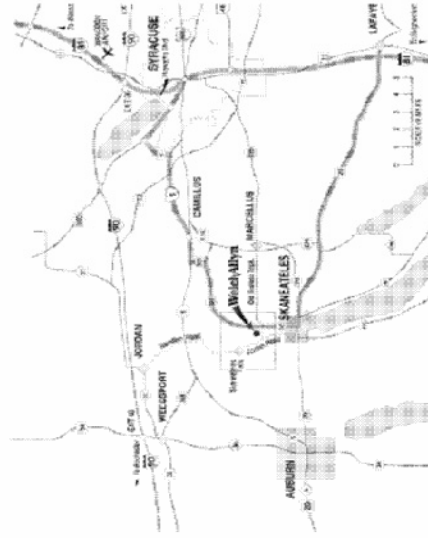
3:00 - 3:30 Break

3:30 - 5:00 Dr. Connie Weyhenmeyer (Syracuse University)  
"Determination of Climate History using Isotopes"

Todd Miller (USGS) "Using Environmental Tracers to Date Young Ground Water"

Dick Yager (USGS) "Origin of Halite Brine in a Glacial Aquifer Underlying Onondaga Lake"

5:00 - 6:00 Poster Sessions



<http://thelodge.welchallyn.com/index.html>

**Introduction to Isotope Hydrology**

By Dr. Don Siegel

In isotope of an element is one that has the usual number of protons but more neutrons than the most common form. Although all isotopes of elements chemically behave the same way in water-rock chemical reactions, the very small differences in atomic mass lead to physical and biochemical processes that "sort" the heavier elemental atoms from the lighter more common ones. This sorting process, called "isotopic fractionation," makes elemental isotopes outstanding tracers that useful to track natural recharge and anthropogenic contamination, fingerprint contamination sources, identify biochemical processes, and directly measure the age of ground water. In this part of the course, I will introduce the major environmental isotopes used in hydrology: H, O, S, C, N, Pb, and Sr and the theoretical basics governing isotopic fractionation.

**Isotope Applications for Contaminant Source Identification and Allocation: Theory to Practice**

By Dr. Julie Sueker

Isotope applications are gaining acceptance for use in surface water and groundwater investigations, complementing traditional geochemistry and physical hydrology techniques. Recent developments in analytical methodologies and in the understanding of isotope dynamics now allow the use of isotopes to investigate sources and fate of common groundwater contaminants such as chlorinated solvents and petroleum hydrocarbons. Degradation of chlorinated solvents and petroleum hydrocarbons impart unique isotopic signatures on both the original contaminant and the degradation product or products that provide verification of degradation. Contaminants with unique isotopic signatures may facilitate determination of contaminant source(s) in complex plumes, especially with recent advances in compound-specific isotopic analyses. Inclusion of isotopic data in allocation models may contribute to the robustness and reliability of the allocation modeling process. This presentation will include theoretical and case study applications of isotopes for identifying contaminant source(s) and fate in the environment.

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## Website of the Month

**TechOnLine** develops and delivers online educational resources, products and services designed to facilitate the delivery of training and education to the electronics industry.

Through innovative online resources, products and services, TechOnLine provides electronics manufacturers a competitive advantage by enabling them to reach and educate their employees, distributors, and customers. This efficient and cost-effective online training helps ensure the success of their complex products by delivering critical information at the right time.

TechOnLine's website, ([www.techonline.com](http://www.techonline.com)) is comprised of a worldwide community of over 270,000 engineering professionals.

## Outstanding Teacher Awards to be held on April 29th

We have the opportunity of honoring five terrific teachers at our Seventeenth Annual Outstanding Teacher Awards Banquet. It will be held on Friday, April 29, 2005, in the Ambassador Room at the Ramada Inn, 1305 Buckley Road, in Syracuse. Cash bar will be available at 6:00 P.M.; dinner will be served at 6:30.

The honored teachers this year are:

- **Vicki Cable**, mathematics teacher at Moravia High School;
- **Christine Johnson**, science enrichment teacher at State Street School in Skaneateles;
- **John Pinto**, fifth and sixth grade science teacher at McGraw Elementary School;
- **Eduardo Rodriguez**, technology teacher at Lincoln Middle School in Syracuse;
- **Michael D. Thurlow**, Technology Education teacher at G. Ray Bodley High School in Fulton

Entertainment will be by two wonderful groups of students: the Nottingham High School *Jazz Ensemble*, and *In A Chord*, a choral group from Jamesville-DeWitt High School. This year, TACNY is offering half-price dinner tickets for public school students.

Come to the banquet on April 29th and find out what's right about education in Central New York State. The reservation form may be found online at <http://www.tacny.org/teacherawards/2005/invitation2005.html>

## Sweet Lecture for April

2 April 2005, 1 – 4pm - "Got wind?"

Tour of a Residential 10kW Wind Turbine Distributed Generator at the organic farm of Rose & Doug Ryan, Harvest Home Organics, #4574 Duryea Street, Moravia, NY.

Contact: Neil LaBrake at 315-428-6133 or via email at [Neil.LaBrake-Jr@us.ngrid.com](mailto:Neil.LaBrake-Jr@us.ngrid.com) for reservations by 5 PM, March 31<sup>st</sup>, 2005. Refreshments to be provided.

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Cato-Meridan High School's Sunpacer Solar Electric Vehicle on display at the Celebration of Technology

## Seventh Annual Celebration of Technology Awards Banquet

The seventh annual Celebration of Technology Awards Banquet was held on March 10<sup>th</sup>, at the Holiday Inn in Liverpool. Approximately 200 attendees saw exhibits from local technology companies and professional societies, an outstanding speaker, and the annual awards presentation.



Dr. Robert Sullivan, a Senior Research Associate from Cornell University, and member of NASA's Mars rover science team gave a very entertaining keynote address. Results of the operations to date, including extraordinary photographs and discoveries were the basis of the presentation. Mr. Sullivan discussed the MER mission, including both robot geologists "Opportunity" and "Spirit." The rovers, were launched toward Mars on June 10 and July 7, 2003, in search of answers about the history of water on Mars, and have surpassed expectations in all areas.

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## Celebration (continued)

Dave Eichorn, Meteorologist for WIXT NewsChannel 9, served as our master of ceremonies this year. He introduced our award winners, who this year included:

**Technologist of the Year** – Sean O'Hara, Syracuse Research Corporation,

**Young Technologist of the Year** – Timothy Taber, Stearns and Wheler,

**Engineer of the Year** – John Edinger, Barton & Loguidice,

**College Technology Educators of the Year** – Steven Keeler, Cayuga Community College and Dr. Walid Shayya, SUNY Morrisville,

**Lifetime Achievement Award** – Fred Wenth

**Technology Company of the Year** – Syracuse Research Corporation,

**Technology Projects of the Year** – Niagra Mohawk, a National Grid Company for Live Gas Main Insertion, (pictured below), and Onondaga County Department of Water Environmental Protection for their Environmental Laboratory.



## Ten Years Ago in Technology....

Press Release: June 12, 1995

This morning Intel announced immediate availability of its fastest microprocessor to date, the 133 MHz Pentium® Processor. The new chip is targeted for both servers and high-performance desktop systems. With the

new version, Intel is now offering nine Pentium processors, all aimed at different market segments. Two weeks ago Intel introduced a 90-MHz Pentium processor for mobile computers.

The new processor is the second product to result from Intel's investment in advanced 0.35 micron, 3.3 volt manufacturing technology and is expected to be designed initially into high-end desktops and high-performance servers. The 133-MHz Pentium processor delivers 155 SPECint92 and 116 SPECfp92 of performance -- more than twice the speed of the original 60-MHz Pentium processor introduced in March 1993.

"End users in business and home market segments are moving quickly to systems based on the fastest Pentium processors," noted Carl Everett, senior vice president, Desktop Products Group. "The industry is poised to meet this demand for performance, and will be offering many choices among 133-MHz Pentium processor desktops and servers at or shortly after introduction."

### YOU MAY BE AN ENGINEER...

If you introduce your wife as "mylady@home.wife."

If Dilbert is your hero.

If you stare at an orange juice container because it says CONCENTRATE.

If you have never backed-up your hard drive.

If you have ever saved the power cord from a broken appliance.

If you still own a slide rule and you know how to work it.

If you have ever owned a calculator with no equal key and know what RPN stands for.

If you can type 70 words a minute but can't read your own handwriting.

If you did the sound system for your senior prom.

If you thought the real heroes of "Apollo 13" were the mission controllers.

If you know what http:// stands for (bonus points if you actually care).

If you've ever tried to repair a \$5.00 radio.

If your lap-top computer costs more than your car.

**April 2005 Technologist**  
 Distributed to over 1,000 professionals!

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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

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 Full Page - \$900 Half Page - \$600  
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