

Technologist

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

SYRACUSE AREA TECHNICAL SOCIETIES COUNCIL

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IEEE - Institute of Electrical and Electronics Engineers		
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Chad Loomis	Pres.	476-8311
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Steve Burrell	Pres.	445-5555
LCSEAA - LC Smith Engineering Alumni Association		
Kelly Thompson	Contact	678-2171
NSPE - National Society of Professional Engineers		
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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 9

May 2005



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

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

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

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

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Syracuse Section • Syracuse, New York



Technologist

Congratulations to our Student Project Winners for the IEEE Syracuse Section awards!

Junior Division - Best Design

Automatic Gain Control

Ali Diab

Tim Fortman

Junior Division - Best Implementation

Optical Tracker for Solar Panel

Peter Yu

Greg Wydysh

Senior Division - Best Design

Electronic Piggy Bank

Lerzan Celikkanat

Ling Tang

Senior Division - Best Implementation

Windpower

Michael Ayisi

Mark Brodmerkle

Amanda DiMaso

Best Project Overall

Ambulance Transmitter

Donald McGarry

Adam Raymer

Each winner will receive a \$15 check from the IEEE Syracuse Section which, by no coincidence, is the 1/2 year dues if they join now.

Thanks to the judges from the Syracuse Section who joined us:

Mike Hayes

Bob Hiemenz

Bill Maxwell

Jim Wilhite

and to David Rappoport, Syracuse Student Branch President for his assistance.

BOOKMARK THIS!

Check out our Section Calendar at <http://www.ewh.ieee.org/r1/syracuse/cal.htm> for additions, updates and directions to meetings. This includes meetings that we have not been able to add to the Technologist due to scheduling. The Syracuse Section will add meetings for other organizations where IEEE members are invited and link to your web page. Don't have a web site for your organization? We will include the information on ours for related technical societies. Contact Don Herres at d.herres@ieee.org.

Those members who need to **CHANGE CONTACT INFO** on file with the IEEE, including e-mail addresses, should do so at:
<<http://www.ieee.org/membership/coa.xml>>

IEEE

CONTACT INFORMATION

IEEE Operations Center

<http://www.ieee.org>

445 Hoes Lane

Piscataway NJ 08855-0331

Switchboard: +1 732 981 0060

IEEE Regional Activities

SYRACUSE SECTION Meeting Information

Our Executive Committee Meetings are held on the first Friday of the month and are open to all members.

Minutes are available online at <http://www.ewh.ieee.org/r1/syracuse/meet.htm>

Check out the all new Syracuse Section website:

<http://www.ewh.ieee.org/r1/syracuse/>



The Institute of Electrical & Electronic Engineers Berkshire Section

The **P**rofessional **A**ctivities **C**ommittees for **E**ngineers (**PACE**)

Presents

LIVE SEMINAR ON CONSULTING

SATURDAY, 4 June 2005

by

Dr. Gary L. Blank

Electrical/Electronic Engineering Consultant
Director, Engineering Update Institute

The seminar will be at the **CROWNE PLAZA**, 1 West Street, Pittsfield, Massachusetts 01201, from 9 am until 4 pm. Lunch will be provided from 12 to 1 pm.

Costs: \$130 for members and \$150 for non-members. **CEUs will be offered for attendance.**

(Fee will be reduced to member level for a one year IEEE membership at registration, due at registration.)

SEMINAR OUTLINE

Session 1 - How to Get Started Without Leaving Your Present Job, Keeping Records, & TAXES

- 1.1 INTRODUCTION to modern consulting and the consulting marketplace.
- 1.2 MYTHS about consulting. Some are true, some are false.
- 1.3 REASONS to become a consultant. How do these reasons influence your success as a consultant?
- 1.4 Critical details and important concerns about GETTING STARTED. What are the steps?
- 1.5 The RECORD-KEEPING procedures used by many consultants FOR TAXES are simple.

Session 2 - HOW TO SET YOUR FEES . . . A FORMULA for fee-setting; Experience Needed

- 2.1 How do you determine what the FEE is for an assignment? You will be shown a simple FORMULA for calculating the fee to charge a client.
- 2.2 Common question: Do you have the EXPERIENCE to be a consultant? The answer is revealed during the seminar.

Session 3 - HOW TO WIN THE CONTRACT, Step-By-Step, What To Say, What To Do

- 3.1 The ETHICS of consulting and multicultural diversity awareness. What are they? How you as a consultant handle them professionally.
- 3.2 Why will A CLIENT SEEK YOU? How does a client make a final decision among you, other consultants, and using internal capabilities?
- 3.3. How do you WIN a contract? Follow the steps involved from the first contact, through the interview, the preparation of the proposal, and obtaining the purchase order.

Session 4 - HOW TO FIND CLIENTS

- 4.1 How do you FIND CLIENTS? You will be shown OVER TWENTY UNIQUE AND PROVEN METHODS OF FINDING CLIENTS, without cold calling or mass mailing.
-

For reservations mail, call or E-mail (before 30 May 05): **Rich Kolodziejczyk** at Tel: (413) 655-2623
63 Plunkett Ave., P.O. BOX 401, Hinsdale, MA 01235 or E-mail: rkolod@ieee.org

Name(Print): _____ Tel: _____ E-mail: _____

Member: ☐ Yes ☐ No Number: _____



May 6	12:00 PM	IEEE Syracuse Section open to all members	Genesee Grande Hotel Syracuse	Section Execu- tive Committee Meeting
June 4	9AM - 4PM	IEEE Berkshire Section	CROWNE PLAZA 1 West Street, Pittsfield, Mas- sachusetts	Seminar on Consulting Dr. Gary Blank Director, Engi- neering Update Institute
June 14	6:00 PM	IEEE Syracuse Section open to all members & guests	Genesee Grande Hotel Syracuse	DNA technol- ogy- The Science behind the Ap- plication Dr. Rita Calvo
September	date & time to be deter- mined	IEEE Syracuse Section	to be deter- mined	Family Picnic



1. IEEE Personalizes Membership Web Site

Finding out what the IEEE offers members just got easier. A new Web site, called the member portal, brings the benefits of membership together into one place for all to see. The portal also includes a new area called myIEEE, where members can find everything they want to know about their membership data and affiliations. MyIEEE will display personal information such as membership grade, subscriptions, and section and society.

2. Consultant's Advice Is on the Money

As a member of the IEEE Consultants Network, Senior Member Sai Chiang has considerable experience that makes him an authority on how to collect consulting fees. Chiang gives other members who work as consultants some tips on preventing and handling payment problems.

3. Local Kids Benefit From IEEE Group

With the help of the IEEE Northern Virginia Graduates of the Last Decade (GOLD) group, youngsters from the Parkview Community Center in Washington, D.C., built a small oscillator composed of transistors, flashing light-emitting diodes, and a speaker that clicked or beeped to the time constant of the circuit. This is just one of several community outreach activities this GOLD group has been involved with.

4. Web Sites Need Not Be Lost in Translation

An estimated 30 percent of IEEE members do not speak English as a first language, leaving a large population who may be facing difficulties, as the majority of IEEE publications and Web sites are in English. But some IEEE regions and societies are not content to assume members are fluent in English and, therefore, are translating Web sites and publications into other languages.

5. Marketplace of Ideas: Harvard Hacked

About 200 applicants to Harvard Business School and other prestigious MBA institutions exploited a programming loophole to go online through their personal Web pages assigned by each school to find out early if they'd been accepted. Should these students be denied admission for this ethical lapse, if it is one? Weigh in at institute@ieee.org

6. Sections Congress Makes Good Leaders Better

Section leaders usually have a good sense of what individuals want from their IEEE membership, but a little extra guidance never hurts. That's where the triennial Sections Congress comes in, providing these volunteer leaders the training and guidance they need to give the members of their sections more information about what the IEEE has to offer.

7. Grant Applications Go Online

Applying for grants from the IEEE Foundation is simplified now that applications can be filled out and submitted online. Grants can range into the tens of thousands of dollars for projects that meet the foundation's goals of developing educational and public information programs that support historical research services and subsidizing workshops that facilitate electronic information exchange.

8. Region 10 Tops in Membership

While the IEEE ended 2004 with a 1.2-percent membership increase to 365 483 members, perhaps the more interesting news is that the IEEE region with the most members is no longer in the United States. Last year saw Region 10 (Asia and Pacific) become the largest region, with 63 548 members, beating out Region 6 (Western United States), which ended the year with 61 540.

CENTRAL CHAPTER NY STATE SOCIETY OF PROFESSIONAL ENGINEERS

NEWSLETTER

May 2005

President's Message - Mike Hayes, PE

Of many issues discussed at the NYSSPE Strategic Planning meeting in Rensselaerville, early in April, the overriding one was membership. NYSSPE membership has been declining for quite some time, although it appears to have stabilized. NYSSPE President-Elect Jack Naylor, P.E. has been very active in this area and encourages all of us to do likewise. The percentage of P.E.s in the Central New York area that belong to NSPE is somewhat below the state average (about 12% vs. 16%). Encouraging people to become members may help a little. However, the critical factor, in my opinion, is that we have to offer services that members perceive to have value. To that end, our goal is to offer sufficient continuing education opportunities so that P.E.s can meet their education requirements by attending meetings and seminars sponsored by our Chapter. Since we haven't had much luck with dinner meetings, we are planning lunch meetings offering one PDH for each meeting, starting in either June or September. Our goal is to have six meetings a year that qualify for a PDH.

As I've mentioned before, we will have the 2005 Central New York Engineering Expo on Monday, November 14, 2005 at the Holiday Inn in Liverpool. We'll start putting information on our web site as it becomes available. Six PDHs will be offered again this year.

Finally, the Celebration of Technology Banquet will probably move from March to May in 2006. It is likely that we will offer a multi-track seminar similar to the Expo with 3 or 4 PDHs available. Assuming all of our plans come to fruition, 15 or 16 PDHs will be available each year from events sponsored by the Central NY Chapter of NYSSPE. We also post other continuing education opportunities that are available as soon as we learn about them. So, please check our web site, <http://www.cnype.org> frequently.

OFFICER ELECTIONS AND BOARD APPOINTMENTS

Ballots for a slate of officers for the coming year will be tallied and results announced Thursday May 19, 2005 at 12:15 p.m. at Microwave Filter Company, Inc, 6743 Kinne Street East Syracuse, New York. In addition, there are several committee chair vacancies. **WE NEED NEW PEOPLE!** If you are interested, or know of someone who is, you are most cordially invited to attend. For any additional information call Secretary Carl Fahrenkrug, P.E. - 438 4722

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

MAILED BALLOTS MUST BE RECEIVED ON OR BEFORE May 18. ADDITIONAL BALLOTS WILL BE RECEIVED AT THE May 19 BOARD MEETING COMMENCING AT NOON.

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

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

OFFICE	TERM	CANDIDATE
President	1 YEAR	Nominee - Mike Hayes P.E. Write-in -
1st Vice President	1 YEAR	Nominee – Andy Watkins, P.E. Write-in -
2 nd Vice President	1 YEAR	Nominee – Don Geiser P.E. Write-in -
Secretary	1 YEAR	Nominee - Carl Fahrenkrug P.E. Write-in -
Treasurer	1 YEAR	Nominee - John Knox P.E. Write-in

MATHCOUNTS

Central NY was well represented in the statewide competition by Durgee Junior High School, Eagle Hill Middle School, Holland Patent Middle School, New Hartford Perry Jr. High, Sauquoit Valley M.S. Wellwood Middle School and a home schooled student. Eagle Hill Middle School took honors in the CNY group with a strong ranking of seventh statewide. Jihoon Yang and Vikram Nayar were first and second within the CNY group with scores of 21 and 20 respectively. Our congratulations to all of the 34 students from the area.

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 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:**

- Associated Builders & Contractors
- Blasland, Bouck and Lee
- C&S Engineers Inc.
- Clough Harbour
- Klepper Hahn & Hyatt, PC
- Microwave Filter
- Stearns & Wheler
- 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 and headlines of current PDH offerings.** 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 –

This will be the last newsletter of the spring. With our May monthly meeting we will adjourn until September. I hope you have enjoyed our monthly meetings and especially the range of interesting speakers. Jeff McKenzie should be congratulated for his work in locating and arranging for the speakers. And he did this while completing and successfully defending his Ph.D.

Beginning in September CNYAPG will be changing to an electronic newsletter. This electronic newsletter will be sent by e-mail to CNYAPG members. If a member does not have e-mail then a printed copy will be mailed to them. The Board of Directors has decided to make this change for two reasons. One reason is to make sure the newsletter get to the members in plenty of time for them to plan to attend the monthly meeting. We have found that the distribution schedule for the Technologist is quite close to our monthly meeting and as such may not give members enough time to schedule time for the meeting. The second reason is cost. By changing to an electronic newsletter, CNYAPG will save about \$1,000 a year. These savings will help keep the cost of membership low. The Board of Directors welcomes feedback on this change. And if you have problems receiving or printing the electronic newsletter please advise us and we can provide you with a paper copy.

My last item is the annual vote for the CNYAPG Board of Directors and officers. Ballots will be sent to you prior to the May monthly meeting. We hope that you will take the time to vote and return the ballots. You can either mail the ballots back or bring them to the May meeting at which time all the ballots will be counted and the results presented to the organization. Voting is a small step, but it will provide a small step in making you feel that this is your organization.

I hope you all have a wonderful summer and that I see you at our September monthly meeting.

Guy Swenson
President

The 2004 - 2005 Board of Directors are as follows:

Guy Swenson - swensoga@obg.com
 Jeff McKenzie - jmmckenz@svr.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

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"
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.

Officers 2004-2005

President	Albert A. Brandenburg	453-4545x258
First Vice President	Neil LaBrake	428-6133
Second Vice President	Michael R. Hayes P.E.	455-2000
Secretary	Michael Masingale	445-4108
Treasurer	Susan Weaver	457-5200
Past President/Technologist Editor	William Busher	434-1242
Web Page Editor	Marjory Baruch	637-0033
Teacher Awards Chair	Dr. Vernon A. Tryon	343-9692

Email Contact Information

Emails addressed per the following list will automatically be forwarded to the appropriate officer or committee person:

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technicalsocieties@tacny.org
secretary@tacny.org
treasurer@tacny.org
pastpresident@tacny.org
membership@tacny.org
technologist@tacny.org
webmaster@tacny.org
teacherawards@tacny.org

Website of the Month



http://www.engineerstoolbox.com/what_is_etb.html

The design of the **EngineersToolbox** was driven by a simple goal: to provide engineers easy access to engineering data and solutions. **ETBX** combines the availability of the internet with the graphics and computational power of today's hardware and software to provide a powerful and unique platform for engineering analysis, reference, and presentation.

Outstanding Teacher Awards held on April 29th

Five terrific teachers were honored at our Seventeenth Annual Outstanding Teacher Awards Banquet. It was held on Friday, April 29, 2005, in the Ambassador Room at the Ramada Inn, 1305 Buckley Road, in Syracuse.

The winning teachers were:

- **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 was provided by two wonderful groups of students: the Nottingham High School *Jazz Ensemble*, and *In A Chord*, a choral group from Jamesville-DeWitt High School.

Sweet Lecture for June

Tuesday, June 14th, 2005 at C&S Engineers

499 Col. Eileen Collins Boulevard, Syracuse, NY

This Sweet Lecture, jointly sponsored by TACNY and IEEE will feature Dr. Rita Calvo, speaking on DNA Breakthroughs and Applications due to Engineering Advances.

Dr. Calvo has a BA in mathematics from Mount Holyoke College and a PhD in Microbiology from Cornell. She taught biochemistry at Cornell for 6 years and has been teaching Human Genetics there since 1984. She started and ran an outreach program for high school biology teachers at Cornell funded by the Howard Hughes Medical Institute for 12 years. Three years ago she used that experience to start a similar program for high school physics teachers for the NSF funded Cornell Center for Nanoscale Systems.

Reservations: Mary Reidy at 428-5326 or via email at mary.reidy@us.ngrid.com

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Syracuse Chapter

Project Management Celebration

The Syracuse Chapter of the Project Management Institute announces their first annual Project Management Celebration, to be held June 10th, 2005 at the Holiday Inn in Liverpool.

The awards luncheon will be held from noon until 2 pm with a complimentary networking reception prior to the event. This reception is open to all sponsors, award winners and banquet attendees.

The winners are: the Central New York Project Team, Central New York Project Managers, SU Students and distinguished members of PMI Syracuse.

For more details, contact Kevin Relyea at 315-569-4240

More Websites of Interest

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

Techdirt is a news service that specializes in filtering the myriad of publicly available news about technology and business issues and then summarizing it in "blog" format, similar to something like slashdot. What the site prides itself on is its blunt and honest analysis of pertinent technology issues by experienced editors.

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

This is a fun little web-based toy for engineers and creative types. Basically, City Creator is just as the name implies -- a simple, fun building tool where you can take small little icons of architectural parts and create an entire city out of your imagination. The end results can be quite impressive, the graphics are very well designed and cute, and the process is easier than making things with legos (it's a totally drag and drop adventure).

"You're one of the lucky ones"

Astronaut Mike Fincke said, "You're one of the lucky one's, IF your education NEVER ENDS!" His words of wisdom went out to an audience of about 100 at Syracuse University, an event sponsored by College of Engineering and Computer Science.



Dr. Peter Plumley, Director of Outreach Programs College of Engineering and Computer Science, coordinated the event, which drew about 100 people. The students pictured here at SU, instead of being "on vacation" are Lincoln MS SECME students. SECME is an engineering program sponsored by the College of Engineering and Computer Science. SECME is a strategic alliance to renew and strengthen the professional capacity of K-12 educators, motivate and mentor students, and empower parents so that all students can learn and achieve at higher levels.

Mr. Fincke spoke of his becoming an astronaut as a dream come true! He also encouraged the young people in the audience to work together to solve problems and to study language. He described how his knowledge of Russian, which he took in college, jumped him to the front of a line of 3,000 wanting to go into space! Event though he came home last October, he and the Russian Cosmonaut still communicate weekly. Mr. Fincke next dream is to see "world wide communications and cooperation to solve the problems we face here on earth", a hope doubtless fostered by his six months in outer space

observing the earth from a perspective seldom afforded most.



Jamel Felton, Mike Fincke and Terrance Forrest

Organizational Spotlight

The New York Water Environment Association (NYWEA) Central Chapter

Professionals in the field of water quality founded the New York Water Environment association, Inc. (NYWEA), in 1929 as a non-profit, educational organization focused on protecting and enhancing our water resources. Members include civil, design and environmental engineers; biologists, chemists, local and state government officials, treatment plant managers and operators, laboratory technicians, students, professors, lawyers, environmental scientists, equipment manufacturers and distributors.

URL: <http://www.nyweacentral.org/>

May 2005 Technologist
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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.

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