

Technologist

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

SYRACUSE AREA TECHNICAL SOCIETIES COUNCIL

The Technology Alliance of CNY has been reporting on technical excellence since 1903.

Vol. 8 No 9

May 2006

ACM - Association of Computing Machinery	Gerry T. Volger	Chair	433-1904
ACS - American Chemical Society	Steven Keller	Chair	
AFE - Association of Facilities Engineers	Nick Kochan	Pres.	455-7061
AFS - American Foundryman's Society	Kevin Walker	Chair	477-5151
AIA - American Institute of Architects	Jamie Williams	Pres.	476-8371
AIAA - American Institute of Aeronautics & Astronautics	John E. LaGraff	Chair	
AIChE - American Institute of Chemical Engineers	Suresh Santanam	Chair	655-8161 x 340
AIHA - American Industrial Hygiene Association	Tom McGiff	Pres.	607-255-5835
ASCE - American Society of Civil Engineers	Matt Millias P.E.	Pres.	451-9560
ASHRAE - American Society of Heating, Refrigerating, and Air-Conditioning Engineers	Ron Westbrook	Pres.	474-7371
ASM - American Society for Metals	Jeff Zerilli	Chair	607-533-7000
ASME - American Society of Mechanical Engineers	Tom Michlovitch	Chair	433-1917, x125
ASPE - American Society of Plumbing Engineers	Daniel C. Gehl	Pres.	607-277-7100
ASQ - American Society for Quality	Andy Thyne	Chair	456-3267
ASSE - American Society of Safety Engineers	Jerry Clark	Chair	445-4536
CNYAIHA - CNY American Industrial Hygiene Association	Steve Valentine	Chair	455-0224
CNYSLS - CNY Society of Land Surveyors	Robert Green	Contact	428-4358
CNYTEA - CNY Technology Education Association	Michael D. Thurlow	Pres.	598-6030
FLSA - Finger Lakes Sanitarians Association	Lary Duchaney	Chair	445-1597
IEEE - Institute of Electrical and Electronics Engineers	Mike Hayes	Chair	455-2000
IES - Illuminating Engineering Society	Chad Loomis	Pres.	476-8311
ISMC - International Society for Measurement & Control	Steve Burrell	Pres.	445-5555
LCSEAA - LC Smith Engineering Alumni Association	Kelly Thompson	Contact	678-2171
NSPE - National Society of Professional Engineers	Michael R. Hayes, P.E.	Pres	455 2000
NYSAPLS - NYS Assoc. of Professional Land Surveyors	Robert S. Green	Chair	428-4358
NYSATE - NYS Association of Transportation Engineers	Mary Clements	Pres.	428-4627
SAE - Society of Automotive Engineers	Angie Errico	Chair	432-4363
SAS - Syracuse Astronomical Society	Stu Foster	Pres.	492-9118
SBE - Society of Broadcast Engineers	Vincent Lopez	Pres.	472-6800
SFPE - Society of Fire Protection Engineers	Dennis McCarty	Pres.	716-599-4238
SME - Society of Manufacturing Engineers	Sam Waite	Chair	432-0700
SWE - Society of Women Engineers	Susan Weaver	Pres.	432-0506

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



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National Society of Professional Engineers
www.CNYPE.org



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

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IEEE membership reached 310,906 in March 2006, a decrease of 1.8 percent compared to March 2005. Specifically, higher grade memberships are down 2.8 percent, student memberships have increased 2.2 percent and society memberships have declined 4.9 percent.

1. Women in Engineering Group Celebrates Record Growth For the IEEE Women in Engineering (WIE) group, if strength is measured in numbers, then last year was the group's strongest ever. More than 1500 people joined, the largest annual jump in its history. Last year also saw the formation of 43 WIE Affinity Groups and Student Affinity Groups, the most ever established in one year.
2. Virtual Museum Takes On Tiny Subject There are those who predict that nanotechnology -- which involves miniscule particles and devices measuring less than 100 nanometers across -- will lead to cures for cancer or precipitate the next great leap forward in computing power. But with the hype should come reality, which is presented in a new exhibit on the IEEE Virtual Museum.
3. E-mail Newsletters Let You Know The "What's New @ IEEE" newsletters have been growing in popularity: subscriptions rose by more than 7 percent in 2005. These free monthly e-mail newsletters, with a variety of articles so brief that each one takes about 15 seconds to read, also offer Internet links that let you dig deeper should a topic pique your interest.
4. IEEE Senior Member Paves the Way for Others When IEEE Senior Member Cheryl B. Schrader was an undergraduate EE student, the idea of pursuing an academic position never even crossed her mind. It wasn't until a male professor suggested it to her that she considered such a career. That's because she didn't have a mentor or even a woman engineer as a role model. Her work to ensure that today's bright, young female engineering students have good mentors and role models earned Schrader the 2005 U.S. Presidential Award for Excellence in Science, Mathematics, and Engineering Mentoring.
5. Gifts to IEEE Foundation Seek to Help Students The high cost of financing an education today has many students -- and their parents -- in search of scholarships and grants. To help with the financial burden, the IEEE Foundation has set up two new programs to help fund the education of future engineers.
6. Digital Library Researchers to Meet in June An electronic hum has joined the traditional library sounds of soft footsteps, rustling paper, and the thump of books on tables. Libraries are going digital, with new types of content and new ways to index and deliver the old. The Joint Conference on Digital Libraries, to be held from 11 to 15 June, at the University of North Carolina at Chapel Hill, will explore the nature of these new methods.

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

IEEE

CONTACT INFORMATION

IEEE Operations Center
<http://www.ieee.org>
 445 Hoes Lane
 Piscataway NJ 08855-0331

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:

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

As I write this, the IEEE Radar Conference is less than a week away. Over 300 people have already registered, so it has been a great success. My thanks to Scott Stumpf, who got the ball rolling on this over two years ago.

Please consider attending the annual Celebration of Technology Banquet on Monday, May 15, 2006 at the Holiday Inn in Liverpool. IEEE is one of the member professional organizations of TACNY (Technology Alliance of Central New York) and one of the sponsors of this event. The Banquet is being held in conjunction with the “Mini-Expo” this year. IEEE is sponsoring one of the five technical tracks for this Engineering Expo. Please see the NSPE portion of this newsletter for more information about “Mini-Expo” and the TACNY portion for Banquet information.

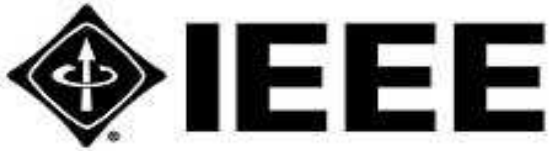
We are joining the Rochester Section for a dinner meeting at Belhurst Castle in Geneva, NY on Sunday, June 11, 2006. We will have a presentation by an IEEE-USA representative about Congressional issues of interest to engineers. The cost will be \$25 per person for members and guests, which is significantly less than the actual cost. Belhurst Castle is a beautiful, historic building, and the food is good as well. The event will probably start around 5 PM, but you might want to arrive early to walk the grounds or do some sight-seeing in Geneva. We will have further details in next month’s newsletter, and we’ll post them on our web site as well: <http://www.ewh.ieee.org/r1/syracuse>. There will also be information on Rochester’s web and at this URL: www.r1.ieee.org/~roch/ad06. There is more information about the facility at <http://www.belhurstcastle.com>.

I gave a presentation about engineering careers at the New York State Technology Education Association (NYSTEA) conference on March 31, 2006. I learned several interesting things while doing the research for this. First, I was incorrect about one key point. The number of young people studying and going into careers that require highly technical education, such as electrical and computer engineering is **not** declining. It is holding steady. What is true is that the number of engineers in the U.S. in relation to the rest of the world is declining. This is reflected in IEEE membership statistics. About 40% of IEEE members live outside the U.S. now. This percentage is expected to exceed 50% in the next 5 or 10 years.

We had further discussions about supporting outreach efforts to local teachers and students to interest them in technical careers. We have decided to set a meeting with other organizations interested in technology to see how we can start working together towards this goal. I expect this to be a continuing, long-term effort.

Please feel free to contact me if you have any comments, suggestions, or ideas for getting our young people interested in technology at m.hayes@ieee.org or (315) 455-2000 (days) or (315) 468-0182 (home).

Date	Time	Sponsor	Location	Topic	Contact
15 May	Expo 12:30 PM Celebration of Technology 6:00 PM	IEEE, NSPE, ASCE, ASME, SFPE, TACNY	Holiday Inn Liverpool, 441 Electronics Pkw	CNY Engineering Expo 4 PDH for NY PE & Celebration of Technology Banquet	Mike Hayes, 455-2000 m.hayes@ieee.or g or mhayes@cscos.co m
11 June	5:00 PM	IEEE Syracuse & Rochester Sections	Belhurst Castle, 4069 Route 14 South, Geneva, NY 14456 (315) 781-0201	Social meeting & IEEE-USA presenta- tion by Russell Har- rison, Congres- sional Issues of Interest to Engi- neers	Mike Hayes, 455-2000 m.hayes@ieee.or g or mhayes@cscos.co m
18 ~ 20 Aug	8:00 AM	IEEE Region 1, hosted by Syracuse Section	Sheraton Syra- cuse University, 801 University Ave	Regional Board of Governors Meeting & Officer Training	Don Herres d.herres@ieee.org



IEEE Rochester Section Annual Dinner

Joined By

IEEE Syracuse Section

- Topic:** Congressional Issues of Interest to Engineers
- Speaker:** Russell Harrison, IEEE-USA Legislative Representative, Grassroots Activities
- Location:** Belhurst Castle
4069 Route 14 South
Geneva, NY 14456
(315) 781-0201
<http://www.belhurstcastle.com>
- Date:** Sunday, June 11, 2006
- Time:** 5:00 PM – Dinner
- Presentation:** After dinner
- Cost:** \$20
- Reservations:** www.r1.ieee.org/~roch/ad06

Russell Harrison is IEEE-USA's Legislative Representative for Grassroots Activities. In this position, he is responsible for helping members of IEEE-USA interact with, and ultimately influence, elected officials. Prior to IEEE-USA, Russell directed grassroots programs at the Institute of Scrap Recycling Industries and the American Iron and Steel Institute. In these positions he also raised over \$300,000 in campaign contributions through the associations' political action committees. He has also represented the recycling and steel industries on Capitol Hill and in state capitols on a variety of issues as a professional lobbyist. Russell has a B.A. in Political Science, with minors in History and Communication, from Allegheny College, and a Masters in Public Policy from the University of Maryland.

We will also have a chance meet and socialize with our counterparts from Rochester in a beautiful setting. We'll have more information in next month's newsletter, but please mark your calendar now.

Please feel free to contact me if you have any questions at 455-2000 (days) or 468-0182 (home), email m.hayes@ieee.org.

Dear Colleague:

I have the distinct pleasure of serving you as the 2006 President of IEEE. Today I am writing to ask for your help and participation in the 2006 drive to help increase our membership.

The foundation and strength of the IEEE is a strong and growing base of members. IEEE does not have a professional sales and marketing force for membership. Rather, we depend on word of mouth to communicate our organization and that means you. To continue to grow and build the IEEE, we need your help. Here's what you can do.

Participate in the Member-Get-A-Member program. This program is available with incentives for finding new members. You will get a \$5.00 credit voucher for every member that you recruit. But the real reward is more than a credit voucher. It's a stronger, better IEEE with enhanced connections into industry and the community. These connections help to build the IEEE Network that supports our careers and the profession.

There are many tangible benefits associated with membership: career and professional development tools, discounts on products and services (both technical and non-technical), the award-winning Spectrum magazine, reduced conference registration fees, multiple opportunities to network with the leaders of the field, access to top technical information, an ever increasing number of continuing education courses, and much more. The list continues to grow each year. In 2005 we launched a members-only web portal, myIEEE. This portal puts all your membership benefits together in one, easily-accessible place.

In 2006 you will see the launch of IEEE.tv, which, through streaming video, can place conference presentations, technical seminars, and other items of general interest directly on your desktop. We also have plans to launch a new, online member directory to help our members get in touch, and stay in touch with each other.

With all of that, I thank you for maintaining your membership in IEEE this year and hopefully in the future. I also urge you to recommend IEEE to your colleagues and co-workers. Please direct your colleagues to <http://www.ieee.org/join> to become a part of the IEEE Network. Remind them that if they join between now and 15 August 2006, they can join for just one-half the normal dues rate.

This is your organization. Help us to grow it and to keep it as vital and vibrant in the future as it has been in the past. Thank you for your participation in the 2006 Membership Drive.

Very truly yours,

Michael Lightner, Ph. D.
President and CEO

IEEE



**WEDNESDAY, JUNE 14, 2006
CNY-ISA
EXHIBIT/CLAMBAKE**

**HINERWADEL'S CLAMBAKE GROVE
5300 West Taft Road in North Syracuse
1 PM to 7 PM**

Enlightening indoor/outdoor exhibits, great food, and friendly people.

Instrumentation, automation and controls products & services on display.
Level, flow, temperature & pressure instruments, control valves, actuators, positioners, and much more!

Communicate with specialists, network with industry professionals and see new technologies!

Member and a guest \$25.00 each! (Non-members only \$40.00 ea.)

Get your tickets as early as possible. Send your checks (made out to CNY-ISA) to Gary Thomson, 6041 Rose Arbor Lane, Cicero NY 13039. Phone 315-458-6427, Fax 315-458-6437

For exhibit information and registration forms visit www.cny-isa.org or call Marty McClain at 315-657-2224

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

NEWSLETTER

MAY 2006

President's Message - Mike Hayes, PE

Please mark your calendars for our first "Mini-Expo" on May 15, 2006 at the Holiday Inn in Liverpool. Full details of the schedule and individual and exhibitor registration are available on <http://www.cscos.com/engineeringexpo/mini-expo/index.cfm>. and on the chapter's web site at www.cnype.org. There will be an opportunity to earn four PDHs for only \$65, which includes the Celebration of Technology Banquet following the Expo. Please see the TACNY portion of this newsletter for more information of the Celebration of Technology Banquet.

We are doing the "Mini-Expo" as an experiment in response to many requests to have two Expos a year. However, everyone involved with the Expo is a volunteer, and we are not in a position to put on two full-blown Expos a year. The "Mini-Expo" is a mix of new and the most popular previous presentations. Since many excellent presentations were opposite each other in previous Expos, this will be your chance to see presentations that you missed because they were at the same time as ones you attended.

As I mentioned in last month's column, our Board of Directors is interested in doing what we can at the local level to encourage our young people to pursue careers in engineering. We discussed what actions we might take to network with other groups to start working with teachers and students interested in engineering. It will be of critical importance to get support from you, the members of our chapter. This is not something that will be successful if only board members participate. I hope to have more details of our plans in next month's newsletter.

As you can see from the calendar, we continue to have "PDH lunch" meetings. Most have been at C&S Engineers to help insure we have a decent audience for our speakers. The June meeting will probably be at Stearns & Wheler. Attendance has been relatively low in spite of the fact that you can get lunch and a PDH for ten bucks. I would appreciate any suggestions about how we can make these lunches more attractive to you.

**NSPE MEETING NOTICE
Mini-Expo & Celebration of Technology Banquet. 4 PDH**

When: May 15, 2006 - Expo 12:15 to 5:15 pm. Technology Banquet 6 to 9:30 pm.

Where: Holiday Inn in Liverpool - Expo

Details: <http://www.cscos.com/engineeringexpo/mini-expo/index.cfm>

Please register on-line at the above site. Call Alicia Faber at (315) 455-2000 or email afaber@cscos.com if you have questions about reservations or payments.



Date/Time	Topic	Speaker	Location	Cost	Info/Contact
5/15/06	Various	Various	Holiday Inn, Liverpool	\$65	Mini-Expo & Celebration of Technology Banquet. 4 PDHs
6/13/06	TBD	TBD	TBD	TBD	Sixth in series of “PDH” luncheons. Date is tentative.
9/19/06	TBD	TBD	TBD		Seventh in series of “PDH” luncheons. Date is tentative.
Oct 06	Getting Licensed in NY	Jane Blair, P.E. (tentative)	Syracuse University., Link Hall, Room 369 (tentative)	TBD	Mike Hayes, PE, 455-2000, mhayes@cscos.com.
10/17/06	TBD	TBD	TBD		Eighth in series of “PDH” luncheons. Date is tentative.
11/6/06	Various	Various	Holiday Inn, Liverpool	TBD	2006 CNY Engineering Expo 6 PDHs .

WEBSITE

There are a number of events, schedules and dates in this newsletter. Unfortunately the slowness of the printed word keeps it at least 3 weeks behind your receipt. To keep current right up to the event, go to our website at <http://www.cnype.org> . The site is as up to date as we can make it. **Check it today for current EXPO schedule and registration forms.**

BOARD OF DIRECTORS MEETINGS

NSPE members are most cordially invited to attend all board meetings. Those wishing to attend should contact Mike Hayes: (315) 455-2000 ext. 4384; mhayes@cscos.com to confirm time and date.

SCHOLARSHIPS

Each year the Central New York Chapter of the New York State Society of Professional Engineers (CNYSSPE) awards scholarships to worthy High School Seniors who will be going to college in an engineering or technical discipline. These young people are judged by an impartial algorithm based on their academic background, scholastic achievements and SAT scores. We are actively soliciting donations from local firms and individuals to support the scholarship fund. Public attribution and appreciation will be publicly expressed in all news releases, The Technologist newsletter and at the annual "Celebration of Technology" dinner. For additional information please contact Carl Fahrenkrug, carl-f@microwavefilter.com, 438 4722

Thank you in advance for your generosity. Together we can encourage more Central New York young people to choose engineering as a career. Your donation check should be made out to the CNYSSPE Scholarship Fund and sent to:

CNYSSPE c/o Microwave Filter Company, Inc.
6743 Kinne Street
East Syracuse, New York 13057
ATTN: Nancy Young

THANK YOU

We continue to seek donations for your Chapter's Scholarship Fund. The fund is supported by contributions from firms and individuals who take an active interest in the future of our profession. Current contributors include:

- • Associated Builders & Contractors
- • Blasland, Bouck and Lee
- • C&S Engineers Inc.
- • Clough Harbour
- • Klepper Hahn & Hyatt, PC
- • Microwave Filter
- • Ram-Tech
- • Stearns & Wheler
- • Syracuse Research Corporation.
- • Syracuse Thermal Products
- • Watkins Environmental Sciences, P.E., P.C.

Officers 2005-2006

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Dr. Vernon A. Tryon	343-9692

Email Contact Information

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

president@acny.org
programs@acny.org
technicalsocieties@acny.org
secretary@acny.org
treasurer@acny.org
pastpresident@acny.org
membershi p@acny.org
technologist@acny.org
webmaster@acny.org
teacherawards@acny.org
jr.cafe@acny.org

Website of the Month

<http://www.nist.gov/>



The National Institute of Standards and Technology develops technologies, measurement methods and standards that help U.S. companies compete in the global marketplace. Congress created NIST in 1901 at the start of the industrial revolution to provide the measurement and standards needed to resolve and prevent disputes over trade and to encourage standardization.

President's Message

Last month, I wrote about our TACNY community technology calendar. I want to point you to a very special upcoming event in the calendar, our 8th Annual Celebration of Technology Awards Banquet, (<http://tacny.org/calendar/main.php?eventid=1140208410518>) scheduled for 15 May. I was recently quoted in the Syracuse Post-Standard saying technology (unlike us technologists!) is not sexy. Noticed more often for our failures, we rarely take the time to step back and recognize our peers for the exciting and important work they do. This is our/your big chance! Nominate someone for Technologist, Young Technologist, Engineer, or College Technology Educator of the Year. Let us know about a Technology Company or Technology Project of the Year. Then, please join us for our celebration at the Holiday Inn and Conference Center in Liverpool. Our keynote speaker, Dr. Warren Allmon, Director of the Paleontological Research Institution, Director of the Museum of the Earth, and Adjunct Associate Professor of Earth and Atmospheric Sciences at Cornell University, will speak about evolution and creationism. Along with our recently well attended technological discussion of intelligent design by Dr. Eugenie Scott in March, TACNY is supporting our mission to advance technology education. We also want to ensure that Popular Science's # 3 "Worst Jobs in Science for 2005" (Kansas Biology Teacher) isn't similarly bestowed on Central New York.

If you are interested in working with the Program Committee to develop programs of interest to the local technology community, drop me a note at hollander@tacny.org. Thanks.



May 5th 18th Annual Teacher Awards Dinner

Come and have a great evening at the Ramada Inn on Buckley Rd., celebrating the hard work of our teachers and catching up with your fellow technologists! Dinner price \$21-\$25 (Varies with menu choice), reduced prices for students. The starting time is 6:00 p.m.

Contact Information: TeacherAwards@tacny.org, or call Vernon Tryon at 315-343-9692

Dr. Eugenie C. Scott Lecture Sponsored by TACNY and National Grid

Dr. Eugenie C. Scott, Executive Director of the [National Center for Science Education](#), Inc., recently spoke at OCC's Whitney Building, on Evolution vs. Creationism Intelligent Design. The lecture was presented by TACNY and sponsored by a grant from National Grid. NCSE is a not for profit membership organization in Oakland, CA, of scientists, teachers, and others that works to improve the teaching of evolution, and of science as a way of knowing. It opposes the advocacy of "scientific" creationism and other religiously-based views in science classes. She has held elective offices in the American Anthropological Association and the American Association for the Advancement of Science. Scott is the current president of the American Association of Physical Anthropologists.

Bill Busher interviewed Dr. Scott, and excerpts were printed in the Post Standard. The full interview is printed below.

BB: One criticism coming from the creationist side is that evolution is "only a theory." How is a theory looked on, from a scientist's perspective?

ES: From the scientific perspective, a theory is an explanation. Theories are the goal of science. In the general public, a theory is a guess or a hunch or something that is not important, so there is a huge difference between how we use the term in science, and how we use the term in the general public. In the general public, 'fact' is very very important; in science, theories explain facts. So, theories trump facts and laws.

BB: Is there a point at which a theory becomes fact?

ES: No, theories explain facts. Facts are observations, and observations are a dime a dozen in science. We collect observations, but what is important is to use those observations to generate theories, which explain the facts and explain the other aspects of nature. Theories don't become facts, theories explain facts.

BB: Even something as simple as say, the theory of gravity, which everyone assumes is a fact?

ES: What happens is that unsupported objects fall. That is not gravity. To explain why this pen didn't fly around the room, when I stopped supporting it and why it fell, we use the theory of gravitation. The theory of gravitation is the mass of the pen and the mass of the table attract each other. That's the theory - that's an explanation. The observation, or fact, was that an unsupported object fell. So, gravitation is not a fact, gravitation is a theoretical explanation.

BB: Do you think that there is a place for creationism intelligent design in school?

ES: Because creationism intelligent design are inherently religious ideas, they have no place in the science classroom. I'm not sure that intelligent design is especially appropriate for a comparative religion class at the K-12 level, because it's such a minimalist position. It makes so few actual claims, and they're based on probability theory, molecular biology and information theory and things that you just don't get into in the high school level. Certainly, I would say creationisms (plural) could be taught in a comparative sense, in a comparative religion class, but I'm not sure that because of

the nature of intelligent design that it would ever be terribly successful in high school. But of course, the content of intelligent design is "evidence against evolution" - that's all they're really saying,

and so why clutter up the student's knowledge with misinformation?

BB: Doesn't the complexity of evolution, involving biology, chemistry, earth sciences and so on, put at a distinct disadvantage proponents of evolution in debates?

ES: If I'm going to be discussing this issue publicly, generally speaking, it's going to be 'either or.' I'm either talking about science, and then so are they, in which case I can criticize either the phylogeny of creation science or I can criticize the molecular biology of intelligent design. They will talk about peppered moths as inadequate science, or whatever. Or, we'll talk about theological issues or possibly philosophy of science. In that case, we are sort of arguing on an equal playing field so to speak. In fact, what the creation science people and the ID people are extraordinarily concerned about, is that when they are in public debates that they're *not* talking about religion. That said, it's still the case that the audience that hears these exchanges and is evaluating the statements on both sides, probably is thinking in terms of religion, even when they are hearing the science. And so I think what you want to do is be very clear when you're discussing creation and evolution; that you separate out your opponents religious views from the scientific claims, and let the audience know that you are criticizing the scientific views of your opponent, and allowing him freedom of religion. But, bad science cannot be excused because of somebody's religious views.

BB: Have you heard any rationale from those who do participate in the structured debates, as to why they would do it?

ES: Well, there are fewer and fewer people doing this. What few people I've run into in the last three or four years who've gotten suckered into these debates did it out of ignorance. There are a couple of people around, like Michael Ruse and Ken Miller, who do take on the formal debate kind of thing from time to time, although I think even Ken has now kind of 'hung up' his debate shoes, so to speak, and he's not really interested. I don't quite understand why Mike Ruse keeps going out on the hustings. It pays well, I guess.

BB: What do you think is the potential impact of the recent court decision in Philadelphia?

ES: It is definitely going to throw sand in the gears of the intelligent design movement, in the sense that school districts that are contemplating teaching ID, are going to be told by their legal retainers, "don't do this, because it's going to cost you a lot of money to go to court and lose." It's not going to stop the effort completely, but what it will do, is to encourage this sort of third wave of creationism, which is the "evidence against evolution" approach. Although the judge in Kitzmiller [vs. Dover] did address the gap/problems in evolution part of the policy, which is of course, the avatar of the "evidence" against evolution school, he spent a lot more time in the decision pounding intelligent design. I think the anti-evolutionists are going to try the "evidence against evolution" approach with a different fact base than the Dover case did. Obviously, what they have to do is come up with a smarter school board, that isn't going to be making as many religious references as the Dover board did. And then, they may have a better chance of passing through the courts.

The "evidence against evolution" approach has been struck down by the courts if the judge accepts the history of this issue, and shows the ultimate religious purpose for proposing these policies. But, you get a judge who doesn't like the 'purpose' argument, which is one of the arguments used to interpret the establishment clause, then it's going to be a whole more difficult to fight against the "evidence against evolution" school.

BB: We hear a lot about children in this country falling behind their counterparts in other countries. How does this controversy play into the overall educational picture?

ES: Certainly, if the United States is going to maintain its technological superiority, we have to have good science education. We don't have as good science education as we'd like; it's very patchy. Some schools do a wonderful job; others do a terrible job; many do a mediocre job. The systematic avoidance of the teaching of evolution is a real 'canary in the coal mine' for indicating the politicization of education. If we are choosing our science based on political considerations, we are under and miseducating our students. We will not maintain that international technological and scientific superiority.

BB: In a society where a large portion of the population believe in things like psychics, homeopathy, touch therapy, astrology, creationism and intelligent design, what do you see as our best hope?

ES: I'm a believer in education. I think we need to do a much better job helping science teachers understand the nature of science, understand how to think critically, and help them devise ways of passing this on to the student body more effectively than they are today (at obviously an age-appropriate level). So much of the acceptance of these paranormal and crackpot ideas really rests upon the inability to think critically about the data that are presented to support them.

Eighth Annual Celebration of Technology Awards Banquet May 15th

The Eighth Annual Celebration of Technology Banquet will be held on Monday, May 15th at the Holiday Inn and Conference Center, at 7th N. & Electronics Pkwy., Liverpool.

Featured speaker will be Dr. Warren Allmon of Ithaca's Museum of the Earth. Tickets are \$30 before May 5th, \$40 after.

For more details, see the banquet announcement page.

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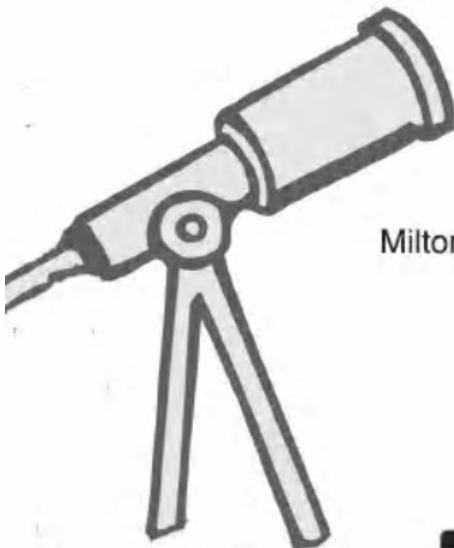
Junior Café Scientifique is an interactive talk for kids in grades 6-12 in Central New York. Modeled after the International Café Scientifique (www.cafescientifique.org), this program features a brief talk by our guest speaker on a current science, mathematics, engineering or technology topic. Following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

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

Saturday, May 20
9:30-11am

at the

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



Sponsored by:

TACNY Technology Alliance
of Central New York
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**The Eighth Annual
Celebration of Technology
Awards Banquet**



Warren Allmon received his AB from Dartmouth College in 1982 and his PhD from Harvard University in 1988. From 1988 to 1992 he was Assistant Professor of Geology at the University of South Florida in Tampa. He became PRI's fourth Director in September, 1992. Allmon's research interests include the evolution of Cenozoic and Recent gastropods, especially the family Turritellidae, and general problems of macroevolution, especially speciation and the origin of biological diversity. Allmon is Director of the Paleontological Research Institution, Director of the Museum of the Earth and Adjunct Associate Professor of Earth and Atmospheric Sciences at Cornell University.

TACNY's Celebration of Technology Awards recognize and celebrate the achievements of Central New York individuals, educators, companies and projects, highlighting Central New York as a rewarding place to learn and work.

The Banquet supports TACNY's improvement initiatives that enhance employment and educational opportunities in Central New York.

The Banquet is also an excellent opportunity for your company to celebrate its own achievements, while supporting TACNY, by exhibiting at the banquet and placing an advertisement in the program brochure.

EVENT INFORMATION

- Cash bar begins at 5:00 p.m., dinner is at 6:30 p.m., and the program begins at 7:30 p.m.
- The Holiday Inn & Conference Center is located at 7th North Street & Electronics Parkway in Liverpool.
- Tickets may be purchased in advance – \$30 per person before May 5, \$40 thereafter.
- Students may purchase tickets for \$15 per student before May 5, \$25 thereafter.

(Specify chicken, fish or vegetarian when purchasing tickets.)

Make checks

payable to: "TACNY – Celebration 2006"

and mail to: Mike Hayes,
C&S Engineers,
499 Col. Eileen Collins Blvd.,
Syracuse, NY. 13212.

ADVERTISING AND EXHIBIT INFORMATION

Quarter, half and full page ad space is available in the banquet program. The cost is \$50, \$75 and \$100 respectively. To place an ad, please mail a check to Mike Hayes at the address above and email the ad file by MONDAY, APRIL 10 to Mike Hayes at mhayes@cscos.com.

12' by 5' exhibit space is available (includes table, chairs, table cloth and utilities) for \$100. Reservations for exhibit space will be accepted through May 8, please contact Mike Hayes at 315.455.2000 for details.

Special offer — full page ad and exhibit space – \$160.

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Technologist Contact Information

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

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