

# Technologist

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

## SYRACUSE AREA TECHNICAL SOCIETIES COUNCIL

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<b>ACS</b> - American Chemical Society	Steven Keller	Chair	
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<b>CNYAIHA</b> - CNY American Industrial Hygiene Association	Steve Valentine	Chair	455-0224
<b>CNYSLS</b> - CNY Society of Land Surveyors	Robert Green	Contact	428-4358
<b>CNYTEA</b> - CNY Technology Education Association	Michael D. Thurlow	Pres.	598-6030
<b>FLSA</b> - Finger Lakes Sanitarians Association	Lary Duchaney	Chair	445-1597
<b>IEEE</b> - Institute of Electrical and Electronics Engineers	Mary Reidy	Pres.	428-5326
<b>IES</b> - Illuminating Engineering Society	Chad Loomis	Pres.	476-8311
<b>ISMC</b> - International Society for Measurement & Control	Steve Burrell	Pres.	445-5555
<b>LCSEAA</b> - LC Smith Engineering Alumni Association	Kelly Thompson	Contact	678-2171
<b>NSPE</b> - National Society of Professional Engineers	Michael R. Hayes, P.E.	Pres.	455 2000
<b>NYSAPLS</b> - NYS Assoc. of Professional Land Surveyors	Robert S. Green	Chair	428-4358
<b>NYSATE</b> - NYS Association of Transportation Engineers	Mary Clements	Pres.	428-4627
<b>SAE</b> - Society of Automotive Engineers	Angie Errico	Chair	432-4363
<b>SAS</b> - Syracuse Astronomical Society	Stu Foster	Pres.	492-9118
<b>SBE</b> - Society of Broadcast Engineers	Vincent Lopez	Pres.	472-6800
<b>SFPE</b> - Society of Fire Protection Engineers	Dennis McCarty	Pres.	716-599-4238
<b>SME</b> - Society of Manufacturing Engineers	Sam Waite	Chair	432-0700
<b>SWE</b> - Society of Women Engineers	Susan Weaver	Pres.	432-0506

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

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### 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 Syracuse Section of the National Society of Professional Engineers [www.CNYPE.org](http://www.CNYPE.org)



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



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### The Technology Alliance of Central New York [www.TACNY.org](http://www.TACNY.org)



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Syracuse Section - Syracuse, New York



Pragasen Pillay  
Clarkson University  
Potsdam, NY, USA  
for contributions to switched reluctance and permanent magnet motor drives.

Lois D. Walsh  
Air Force Research Lab  
Rome, New York, USA  
for leadership in electronic device reliability.

## Congratulations to the 2005 Fellows:

Joseph R. Mautz  
Syracuse University  
Syracuse, NY, USA  
for contributions to the method of moments in electromagnetics

To the Ithaca Section:

Lang Tong  
Cornell University  
Ithaca, NY, USA  
for contributions to statistical signal processing for communications and wireless networks

To our neighbors at in Mohawk Valley Section:

Mark Edward Davis  
Air Force Research Labs  
Rome, NY, USA  
for developments in the automated netting of Navy airborne systems.

and to the Rochester Section:

Sophie V. Verdonckt-Vandebroek  
Xerox Corporation  
Webster, NY, USA  
for leadership in developing document systems.

James H. Michels  
Air Force Research Laboratory/SNRT  
Rome, NY, USA  
for contributions to model-based multi-channel signal detection and estimation in adaptive phased array radar applications.

### 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>>

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/>



**Institute of Electrical & Electronics Engineers  
Industrial Applications/Power Engineering, Syracuse Chapter**

**Panel Discussion  
Building Electrical Transmission Lines in New York**

**Date:** Thursday, February 24, 2005

**Topic:** Transmission Planning

**Speaker:** Ms. Diane Barney, New York State Public Service Commission  
Mr. Jeff McKinney, New York State Electric & Gas Corp.  
Mr. Herb Schrayshuen, National Grid

**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 – Panel Discussion

**Cost:** \$15

**Reservations:** Mike Hayes

**Phone:** (315) 455-2000

**Email:** mhayes@cscos.com

The panelists will explain the role of transmission infrastructure, what is likely to be needed in the future, and how we can collectively meet the demand for electricity. In addition, reliability considerations, comparison of New York with other regions, the role of federal and state regulators, as well as the process in place to assist in deciding the best course of action in the planning and selection of projects will be discussed.

**Anyone is welcome to attend this meeting.**



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# Joint Sweet Lecture & IEEE/PES Presentation on Advanced Overhead Transmission Conductor Technologies

6:00 – 7:30PM Thursday, February 17, 2005

Niagara Mohawk's auditorium at 300 Erie Blvd. West, Syracuse

## **SPEAKER:**

**ART J. PETERSON JR, PH.D.**

*NATIONAL GRID USA*

**COST: FREE**

## **CONTACT INFORMATION to ATTEND:**

*(Reservations are required by 5PM, Feb. 16, 2005.)*

***Neil F. LaBrake, Jr., PE***

**Niagara Mohawk, a National Grid Company**

**Electric Distribution Planning & Engineering – NY Central, Customer  
Facilities**

**300 Erie Blvd. West, Bldg. D-1**

**Syracuse, NY 13202**

**PHONE: 315.428.6133; FAX 315.460.8996**

**Email: [Neil.LaBrake-Jr@us.ngrid.com](mailto:Neil.LaBrake-Jr@us.ngrid.com)**

**PLEASE SEE THE TACNY PORTION OF THIS NEWSLETTER  
FOR MORE DETAILS ABOUT THIS PRESENTATION.**



## Message from the Chair Mary Reidy, PE

As shown in the calendar, your IEEE Syracuse Section has a lot of activities planned for 2005. We will be updating the calendar every month. In addition, please check our web site at <http://www.ewh.ieee.org/r1/syracuse/> for the latest news.

I want to highlight one event in particular and solicit your comments and suggestions. We are in the beginning stages of planning a joint meeting of all Upstate New York IEEE Sections (Binghamton, Buffalo, Ithaca, Mohawk Valley, Rochester, and of course, Syracuse) in June 2005. Last summer at the IEEE Region 1 meeting, several of the sections discussed taking the fast ferry from Rochester to Toronto to go to a play. Since the ferry is in limbo, we won't be doing that. We are now currently considering an activity somewhere in the Rochester area, but we have made no firm decisions about anything yet. The purpose is to network with fellow engineers in our part of the world. If there's sufficient interest, we might have a technical meeting or meetings in conjunction with whatever social event we decide upon.

**I would welcome any comments any of you might have about this event.** Please send me an email at [mary.reidy@us.ngrid.com](mailto:mary.reidy@us.ngrid.com) if you have any suggestions.

### CALENDAR

Date	Time	Sponsor	Location	Topic
February 17	6:00 PM	IEEE PES/IAS Chapter open to all members & guests	National Grid	Advanced Conductor Technology speaker: Art Peterson
February 24	6:00 PM	IEEE PES/IAS Chapter open to all members & guests	Genesee Grande Hotel Syracuse	Building Electrical Transmission in New York panel discussion
March 10	registration - noon to 1PM presentations 1:15 to 4:45	IEEE Syracuse Section open to all members & guests	Holiday Inn 7th North Street Liverpool	Celebration of Technology Education Seminar 2005
March 10	6:00 PM	TACNY & IEEE Syracuse Section open to all members & guests	Holiday Inn 7th North Street Liverpool	Celebration of Technology Mars Rover speaker: Robert Sullivan
April 3	10:00 AM	MOST & IEEE Syracuse Section open to all members & guests	OnCenter in Downtown Syracuse	Greater Syracuse Scholastic Fair
April 12	to be determined	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



## Engineering Explosion!!!!

We are currently seeking candidates for Lockheed Martin that have demonstrated RF/Microwave Design experience in frequencies ranging from 70 MHz to 12 GHz. Experience in Frequency Converters, IF Signal Processing, Filter Design, Circuit simulation, Electromagnetic simulation, Antenna design, Low Noise Receivers, Digital Microwave Receivers, High Power RF/Microwave Amplifiers and High Speed mixed signal Backplanes is highly **desirable**. Proactive, goal oriented individual with strong communication and cross-discipline teamwork skills required. A bachelors degree with 5 to 12 years of experience is preferred. We are ready INTERVIEW IMMEDIATELY To apply, send resume to Romelle Mallory at [rmallory@21staffing.com](mailto:rmallory@21staffing.com)

### Ten Signs of Job Dissatisfaction—Don't Ignore Them!

The new year is a great time to analyze your job satisfaction. As you make your new year's resolutions, include career fulfillment as a top priority.

*There are ten sure signs that you are experiencing job dissatisfaction. If you:*

- *Dread Mondays or coming to work*
- *Can't wait for Friday*
- *Are often bored at work*
- *Feel tired or chronically fatigued*
- *Avoid your boss and dread meetings*
- *Have no enthusiasm or sense of self-worth*
- *Feel like you are getting nowhere in your job*
- *Take work stress home*
- *Question your choice of industry or occupation*
- *Can't think of a way out*

Any of the above signs indicate a need for change. The biggest career mistake is to ignore those indicators. A head-in-the-sand mentality can lead to a downward career spiral that ends with disappointment and "what if" regrets.

#### Here are three great ways to facilitate positive change.

- **Analyze your career choice.**

Is the problem your boss or employer—or is it that you have chosen the wrong occupation? Before you take any action, make sure you know what needs to change. Don't make the mistake of throwing away a good career (ex. accounting, sales, finance) when the problem is really the person you work for. On the flip side, if you're not cut out for sales, then changing employers isn't going to help the problem. A career coach can guide you to determine which of these problems is causing your unhappiness and give you ideas for your next career move.

- **Update your resume.**

Updating your resume can give you a great confidence boost. You'll feel better immediately if you know you are ready whenever opportunity knocks. Be careful, however, that your resume doesn't resemble a house with too many additions, each resembling a different style. If you have simply added to the same old resume job after job, it's time to "tear down that old shack" and rebuild your resume from the ground up. If your old resume format doesn't live up to your professional image, you may want to consult a resume writer. You'd never wrap a ruby ring in old newspaper, and you should never present your career with anything less than professional polish.

- **Brush up your interview skills.**

If you have been on the job for a couple of years, your interview skills are probably rusty. Don't make the mistake of blowing off the first few interviews as practice. They might be the perfect jobs for you! You'll feel much more confident and comfortable if your interview skills are honed before you step into the first interview. To determine your current level of interview expertise, answer the following questions:

- o Do you know the toughest interview questions—and how to answer them?
- o Can you answer the salary question without compromising the level of starting salary at offer time?
- o Can you recognize the most common interview styles—and respond without showing stress?

If you aren't sure, then it may be time to visit with a career coach who can help you prepare to WOW them in every interview.

Job dissatisfaction is an indication of needed change. Take the steps of change by investing in the appropriate job-search skills and tools, and you will be in a position to change your job—and your life—for the better.

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

**NEWSLETTER**

**February, 2005**

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

**ENGINEER'S WEEK** runs from February 20 thru 26. Your Chapter is sponsoring two functions and I hope you will attend both of them. The first is a joint lunch with ACEC. The second is an "E-Spectacular" dinner meeting with Syracuse University faculty and staff, as well as engineers (i.e., us!). I don't have all the details about the E-Spectacular as I'm writing this on January 20, 2005. The details will be posted on our web site, [www.cnype.org](http://www.cnype.org), as soon as they become available, and will be included in a future email. We are trying to have more E-Week activities to recognize the contributions engineers make to society. See the calendar for more information.

The Celebration of Technology Banquet, on March 10 at the Holiday Inn in Liverpool will include our presentation of the Engineer of the Year award (See the calendar below for details). Although we had hoped to present a mini-expo in conjunction with Celebration, the logistics and timing did not work out. With your interest we will consider one for next year.

An email notice for the joint NSPE/CSI/AIA meeting was sent to everyone whose email address I had. I plan to continue this practice, so if you did not receive an email just send me your address. I'd appreciate any comments or suggestions about this and welcome suggestions for future meetings.

The Capital District Chapter of NYSSPE is holding their 25-year anniversary of the Capital Region's celebration of Engineers Week at the Albany Marriott on Wolf Road in Albany, NY on February 17 & 18, 2005. Up to 8 PDHs are available. You can find the program schedule at:

<http://www.capdistpe.org/Announcements/2005%20EWeek%20Schedule%20-11405.pdf>.

The registration form is at:

<http://www.capdistpe.org/Announcements/2005EWeekRegForm.pdf>

You can link to both of these from their web site at: <http://www.capdistpe.org/>.

## **Leadership in Energy and Environmental Design (LEED™) Certification Energy and Research and Development Authority (NYSERDA) Programs**

**Speakers: Greg Lampman, NYSERDA & Carlos Dachary, Erdman Anthony**

**Approved for one PDH for NY PEs**

**11:30 AM Tuesday, 2/22/05**

**Wyndham Hotel**

**6301 Route 298 (near Carrier Circle)**

**East Syracuse, NY**

**Cost: \$15 (includes lunch)**

**RSVP: Mike Hayes, PE, 315-455-2000, [mhayes@cscos.com](mailto:mhayes@cscos.com)**

Mr. Dachary, PE, LEED AP will provide an overview of LEED Certification and NYSERDA's New Construction Green Buildings Program complete with Case studies. Erdman Anthony and Associates is contracted with the New York State Energy and Research and Development Authority to provide project outreach and management services for select New York State Energy Smart Programs. A licensed Mechanical Engineer in New York State, Mr. Dachary has been consulting in the building design field for 14 years with emphasis on energy efficiency. Carlos is an accredited professional in the United States Green Building Council's Leadership in Energy and Environmental Design (LEED™) program and works with NYSERDA applicants in the New Construction program to incorporate high performance building features into their projects. Mr. Lampman will discuss other NYSERDA programs that are of interest to engineers.

## **E-Spectacular 2005 Grand Finale Celebration of E-Week**

**7:00 PM (doors open at 6:30 PM) Saturday, 2/26/05**

**Sheraton Syracuse University Hotel & Conference Center**

**801 University Ave.**

**Syracuse, NY**

**Cost: TBD**

**RSVP: Mike Hayes, PE**

**315-455-2000**

**[mhayes@cscos.com](mailto:mhayes@cscos.com)**



## Calendar

<b>Date/Time</b>	<b>Topic</b>	<b>Speaker</b>	<b>Location</b>	<b>Cost</b>	<b>Contact</b>
2/17/05 & 2/18/05	Capital District Seminars	Various	Albany Marriott, Wolf Rd, Albany, NY	\$70	Jennifer Miller  518-283-7490  jamil-ler@nysspe.org
2/22/05  11:30 AM  (Joint with ACEC)	NYSERDA Programs & LEED Certification Overview*	Greg Lampman NYSERDA  Carlos Dachary, Erdman Anthony	Wyndham Hotel	\$15.00  Includes dinner	Mike Hayes  315-455-2000  mhayes@cscos.com
2/26/05  7:00 PM  (Joint with SU)	E-Spectacular Engineers' Week Celebration	TBD	SU Sheraton	TBD	Mike Hayes  315-455-2000  mhayes@cscos.com
3/10/05  6:00 PM	Celebration of Technology Banquet – Mars Rover	Robert Sullivan	Holiday Inn, Liverpool	\$30 (before 3/4/05, \$40 after)	Mike Hayes  315-455-2000  mhayes@cscos.com
3/28/05  5:30 PM  (Joint with CSI & AIA)	Last Hour Before Bid Opening	Panel Discussion	Craftsman Inn, Fayetteville	\$25.00 Includes dinner	RSVP by 3/24/05 to Frank Carleo (Robson and Woese) 315-445-2650 fcarleo@robsonwoese.com
11/14/05	CNY Engineering Expo 2005	Various	Holiday Inn, Liverpool	TBD	Mike Hayes  315-455-2000  mhayes@cscos.com

## WEBSITE

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

## THANK YOU

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

- 
- Blasland, Bouck and Lee
- C&S Engineers Inc.
- Clough Harbour
- Klepper Hahn & Hyatt, PC
- Microwave Filter
- Stearns & 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](mailto:carl-f@microwavefilter.com), 438 4722.

## BOARD OF DIRECTORS MEETINGS

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

## Our President's Voice –

### The CNYAPG Community

CNYAPG offers a community to geologists. Not quite the same kind of community we might find in the neighborhood or village we live in, but a community none the less. It is a community that provides friendships, support, and opportunities. It is a community of people who have a common interest, geology, and choose to associate with other geologists. Not too different from a community one chooses to live where the people there have the common interests in the area, the schools, the participation. And as the communities we live in CNYAPG can be as much of a community as you want and are willing to invest yourself in. CNYAPG is not really an organization as much as it is the people in the organization. People make the community and they make CNYAPG.

So how can the community of CNYAPG provide support? Well if you are fired from your job or decide to quit, CNYAPG does not have job placement, but we do have a community of geologists. These geologists represents a pretty complete cross section of geology related firms in the Central New York area. Talking to members at a monthly meeting will give you a pretty good idea of where job opportunities are in the area. And provide you with face to face opportunities to sell yourself.

Or maybe you are looking for new staff or even for new opportunities for your self. Again the networking resources of the CNYAPG community provides a wealth of opportunities not just for jobs, but also for non-job related opportunities.

Friendships are a common outgrowth of a community and this is true for CNYAPG. The CNYAPG membership offers a large group of individuals who all have somethings in common with you, geology and beer, yet offer a wide range of personalities, interests, politics, and values. Take the time to meet and get to know other members and see what friendships develop.

These friendships can be professional with the sharing of ideas, solving problems, or looking for answers to challenging projects. And they can be friendships to share good times and interests.

To take advantage of this community all you need to do is participate. Come to the monthly meetings and meet other CNYAPG members. You will find the community.

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

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.
February 17, 2005	CNYAPG Monthly Dinner Meeting: Linda Ivany (Paleontological Society's Distinguished Lecturer 2003-2005) The Paleogene Greenhouse-to-Icehouse Transition in Antarctica: A Paleontological Perspective
March 24, 2005	CNYAPG Monthly Dinner Meeting: Donald Rodbell (Union College) Climate Change Research in the Tropical Andes: Science and Adventure Travel
April 28, 2005	CNYAPG Symposium – Isotopic Geochemistry: This will be a day-long symposium with invited nationally known speakers. More details will follow.
May 12, 2005	Rosamand Gifford Lecture Series: Simon Winchester (Author and geologist). Author of Krakatoa: The Day the World Exploded; The Map that Changed the World. OnCenter 315 435-2121

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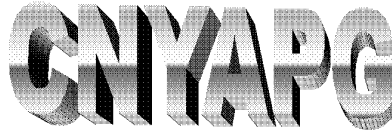
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A different CNYAPG sponsor's ad will be posted in each issue of the Technologist. For more information regarding CNYAPG, please contact Guy Swenson, President (315.437-6100) or [swensoga@obg.com](mailto:swensoga@obg.com)

CENTRAL  
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PROFESSIONAL  
GEOLOGISTS



**"The Paleogene Greenhouse-to-Icehouse Transition in Antarctica:  
A Paleontological Perspective"**

**Presented by Dr. Linda Ivany**  
*Paleontological Society's Distinguished Lecturer*

**February 17, 2005**

The "Greenhouse-to-Icehouse" transition associated with the Eocene-Oligocene boundary is arguably the most significant climate transition in the Cenozoic. Cooling temperatures leading to the growth of ice sheets on Antarctica had a profound effect on both global climate and biosphere dynamics. Because the magnitude of change is most pronounced at high latitudes, Antarctica is an excellent place to explore the effects of climate cooling on marine faunas. Seymour Island, on the Antarctic Peninsula, provides one of the only places where fossiliferous, Paleogene, marine shelf sediments are not ice-covered today and hence can be sampled on land.

The fossils of the Eocene La Meseta Formation preserve a record of climate cooling and corresponding ecosystem change up to (and perhaps across?) the Eocene-Oligocene boundary. Stable oxygen isotope values of shell carbonate allow the reconstruction of a detailed temperature history for the region. Predator-prey relationships among mollusks change in response to the elimination of shell-crushing predators from the Antarctic continent, attested to by the appearance in shelf settings of predation-susceptible taxa like stalked crinoids and a decrease in the frequency of defensive architecture in prey species.

My collaborators and I suggest that climate cooling led to the exclusion of shell crushing predators, and that establishment of circum-Antarctic circulation shortly thereafter prevented larvae from re-colonizing the continent. Even today, the Antarctic shelf fauna contains taxa that would otherwise become easy

meals in warmer shelf settings, suggesting that Eocene-Oligocene cooling and subsequent isolation established the character of high-latitude faunas for the remainder of the Cenozoic.

Presenting February's program is Linda Ivany. She received her Ph.D. from Harvard University in 1997, and is currently a Professor at Syracuse University. Dr. Ivany has a broad research program that spans the fields of paleoecology, paleoclimate, stable isotope geochemistry, and stratigraphy. She is generally interested in how ecosystems and their component taxa evolve and respond to changes in the physical environment. She has field programs currently underway in the US Gulf Coast, Belgium, and Antarctica.

**Meeting logistics:** The meeting will take place on Thursday, February 17 at the Sheraton Syracuse University Hotel (801 University Ave, Syracuse). A social hour will be held from 5:30 p.m. to 6:30 p.m. at the hotel bar, followed by a buffet dinner. The dinner will start at 6:30 p.m. and our featured speaker, Dr. Ivany of Syracuse University, will begin her program at 7:30 p.m. The cost of dinner is \$20 for members, \$22 for non-members, and \$15 for student members. People may also attend only the presentation portion of the program for a nominal fee of \$3. Parking in the hotel garage is free; the front desk staff at the hotel will validate parking.

Please RSVP by Monday, February 14, 2005 to Bonnie at Parratt-Wolff via e-mail at [bolney@pwinc.com](mailto:bolney@pwinc.com) or 437-1429.

**Calendar**

March 24, 2005	The CNYAPG presents Dr. Donald Rodbell of Union College. He will speak about "Climate Change Research in the Tropical Andes: Science and Adventure Travel"
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## Website of the Month



Free On-Line Dictionary Of Computing

<http://foldoc.doc.ic.ac.uk/foldoc/index.html>

Enter a word or phrase in the box at the top of any page and click the **Search** button or hit Enter.

## Sweet Lecture Series

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### Preparing for the future Technology courses may give us new Tom Edisons

(Original publication: December 31, 2004.....permission granted to reprint from the JournalNews.com)

The old bromide in educational criticism for at least three decades now is that our American students are not savvy enough in science and math. "Technology" courses attempt to change that perception.

It used to be that boys took wood shop and girls homemaking. Then the classes for each became co-ed. Then "life skills" instruction was introduced as the curriculum moved from a reflection of 1950s life to today's world where parental and home life roles are mixed and in which stress and coping are accepted factors.

Finally, there came technology classes, souped-up versions of the old shop class but with a mix of the science and hands-on math work that were part of the old syllabus.

The result, modern educators hope, will be (1) an interest in technology, for we live in a technological age; (2) a better practical understanding of science and math so that today's students can better see the world; and (3) encouragement for those students who may seek careers in science and math and thus assure replacements for such minds in business and schooling.

Staff writer Randi Weiner recently reported on one of the Rockland schools which offer increasingly involved technology courses. At the Nyack Middle School in recent weeks, nearly every eighth-grader has been building a windmill. The students have studied the structures, talked about their history and discussed the windmills proposed for the upper floors of the World Trade Center monument that will be used to help power the businesses beneath.

They have been reviewing engineering, flaws, improved design, innovation. They have been discovering that building a windmill and making it work are different skills. Teacher Henry Komorowski says that the students re-create the wheel so they can make a better one.

Well, the world, this nation, need better wheels, although the ones that aren't broken should still turn.

Komorowski says that tech-ed projects should be grounded in reality. He wants his students to make mistakes and run into dead ends, because then they will invent ways around their problems. That's a skill that will work for them in whatever they do, of course.

This America was once flooded with innovative inventors like Thomas Edison, who were hands-on, "practical" people, who learned the engineering of something and then discovered way beyond that.

May our technology classes give us more Edisons and also the ordinary citizen who has an understanding of applied science and math.

This should be a practical world.

"We want to have the kids make connections and to make them aware that these are things that can be controlled and improved by people," he said. "In the future, some of these people will be highly sophisticated engineers because of part of these discovery issues."

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