

Technologist

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

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NYSATE - NYS Association of Transportation Engineers	Mary Clements	Pres.	428-4627
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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. 8 No 2

October 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
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www.CNYPE.org



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Syracuse Section ✦ Syracuse, New York

IEEE

Syracuse Section
Meeting Announcement

Tuesday, October 11, 2005

Where: Genesee Grande
1060 E Genesee
Syracuse, NY 13210
(315) 476. 4212

Topic: Energy Bill Updates
Speaker: Mr. Herb Schrayshuen
Vice- President
Transmission Commercial Services
National Grid USA

This evening's presentation will address the current status of the long-awaited Energy Bill and its implications and processes for energy companies and those who interact with energy companies. Mr. Schrayshuen is the Vice-President Transmission Commercial Services for National Grid USA. As part of his responsibilities, Mr. Schrayshuen covers the commercial and regulatory changes for the Northeast USA region for National Grid.

Reservations are required for this presentation and may be made by email to Mary.Reidy@us.ngrid.com or directly at 315.428.5326. Deadline is Monday, October 10, 2005.

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/>



IEEE Syracuse Section Meetings			
Date	Topic	Speaker	Location
10/11/2005	Energy Bill Updates	Herb Schrayshuen	Genesee Grande
11/14/2005	Engineering Expo 2005	Various	Holiday Inn - Liverpool
March-06	Science Fair	Exhibits	
April-06	Fellows Night	TBD	TBD
April-06	SU Open House	Exhibits	SU Link Hall
4/24 ~ 27/06	Radar Conference	Various	Turning Stone
11/15/2006	Mini-Expo & Celebration of Technology	Various	Holiday Inn - Liverpool
8/18 ~ 20/06	Region 1 Conference	N/A	Sheraton - University
AES/COM Meetings			
Date	Topic	Speaker	Location
TBD	TBD	TBD	TBD
AP/MTT Meetings			
Date	Topic	Speaker	Location
TBD	TBD	TBD	TBD
CAS Meetings			
Date	Topic	Speaker	Location
12/14/2005	High Speed Wireless	Craig Cobb	Verizon, 201 S. State St, Syr.
Computer Meetings			
Date	Topic	Speaker	Location
10/12/2005	VoIP Risk or Reward	TBD	Holiday Inn - E. Syracuse
IAS/PES Meetings			
Date	Topic	Speaker	Location
10/20/2005	Daylighting & LEED	Dan Perry	C&S Engineers
11/14/2005	Engineering Expo 2005	Various	Holiday Inn - Liverpool
Life Member Meetings			
Date	Topic	Speaker	Location
TBD	TBD	TBD	TBD
Student Branch Meetings			
Date	Topic	Speaker	Location
10/25/2005	Ethernet Networks	Craig Cobb	SU Link Hall



IEEE



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

&

**Illuminating Engineering Society of North America
Central New York Section**

Joint Meeting

- Date:** Thursday, October 20, 2005
- Topic:** Daylighting and LEED™ (Leadership in Energy & Environmental Design)
- Speaker:** Daniel Perry, Lutron
- Location:** C&S Engineers
499 Col Eileen Collins Blvd (access road to Hancock Airport)
Syracuse, NY 13212
(off I-81 Exit 27, first building on left after off-ramp ends)
- Schedule:** 5:30 PM – Networking
6:00 PM – Dinner (food from Dinosaur BBQ)
7:00 PM – Presentation
- Cost:** \$15 – IEEE & IES Members
\$20 – Others
- Reservations:** Norm Traino
Phone: (315) 635-3232
Email: ntraino@cnymail.com

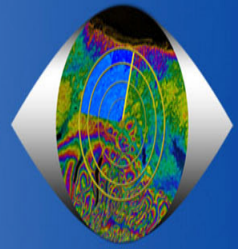
Please make reservations not later than the close of business on Tuesday, 10/18/05.

Mr. Perry will discuss the latest technology in daylighting controls and how to effectively design daylighting systems. Projects with daylighting can earn one point in the LEED™ rating system for green (environmentally friendly) buildings.

We have applied for one PDH (professional development hour) for New York Professional Engineers for this presentation.

Everyone is welcome to attend this meeting.

RADAR ...*Our Sight into a Spectrum of Information*



2006 IEEE Radar Conference

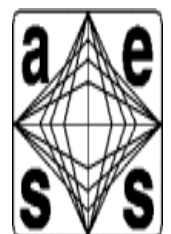
**April 24 – 26, 2006
Turning Stone Resort and Casino
Verona, NY USA**

“Radar – Our Sight into a Spectrum of Information,” highlights the connection between radar and information. This theme provides an interesting perspective to consider the increasingly wider spectrum of target and environmental information that has evolved, far beyond the original capability to detect the target and determine its range, from innovative radar research, technology, and component development, for both military and civilian applications.

**For more information visit
www.radar06.org**



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Syracuse IEEE Section



CENTRAL CHAPTER NY STATE SOCIETY OF PROFESSIONAL ENGINEERS

NEWSLETTER

OCTOBER 2005

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!**

President's Message - Mike Hayes, PE

As I write this in mid-September, the schedule for the 2005 Central New York Engineering Expo is almost firm with just a few speakers to confirm. We have a link to the schedule on our web site. The Expo will be held on Monday, November 14, 2005 at the Holiday Inn in Liverpool. Six PDHs will be offered again this year. Online registration is available **now**. You can also pay by credit card this year.

Right here, in East Syracuse, on October 20, you can earn one PDH by attending a luncheon session on **Design-Build for \$20 which includes lunch**. **Details follow in the next article after this.**

There are also opportunities around the state at <http://www.cnype.org>. There are opportunities to get 19 PDHs through various PE organizations from mid-October through mid-November. The Broome Chapter of NYSSPE is having an Engineering Symposium on October 24 (see <http://www.broomepe.org> for details). NYSSPE is having their annual Fall Development Conference on November 4 & 5 (see www.nysspe.org or link to it from our web site). Of course, our CNY Expo 2005 will be held on 11/14/05.

This Spring we will offer a multi-track "Mini-Expo", probably with 4 PDHs available, on Monday, May 15, 2006. This Expo will be held in conjunction with the Celebration of Technology Banquet. We plan to offer six or seven "PDH lunches" a year. Counting the Expos and lunches, there will be opportunities for at least 16 PDHs per year sponsored by the CNY PE chapter.



JOINT NSPE – ACEC - DBIA MEETING NOTICE

Topics: **Design-Build in New York**

Speaker: **Paul Bowers, PE**

Date: **Thursday, 10/20/05**

Time: **11:30 AM – Networking
Noon – Buffet Lunch
Presentation after lunch**

Location: **Wyndham Hotel
6302 Carrier Pkwy
East Syracuse, NY
(near Carrier Circle)**

Cost: **\$20**

RSVP: **Mike Hayes, PE
315-455-2000
mhayes@cscos.com**

Mr. Bowers was the 2004-05 President of the New York State Society of Professional Engineers. He will discuss design-build issues in New York State.

This presentation has been approved for one professional development hour (PDH) for New York Professional Engineers.

Calendar

Date/Time	Topic	Speaker	Location	Cost	Contact
10/20/05 Noon	Design-Build	Paul Bowers, PE	Wyndham Hotel	\$20	RSVP by 10/18/05 to Mike Hayes 315-455-2000 mhayes@cscos.com
11/14/05	CNY Engineering Expo 2005	Various	Holiday Inn, Liverpool	\$80	Mike Hayes 315-455-2000 mhayes@cscos.com
1/17/06	TBD	TBD	TBD	TBD	Second in series of “PDH” luncheons. Date is tentative.
2/21/06	Engineer’s week	TBD	TBD	TBD	Third in series of “PDH” luncheons.

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 & Wheeler
- • Syracuse Research Corporation.
- • Syracuse Thermal Products

BOARD OF DIRECTORS MEETINGS

NSPE members are most cordially invited to attend all board meetings. Meetings are tentatively scheduled for noon on the second Thursday of each month. Those wishing to attend should contact Mike Hayes: (315) 455-2000 ext. 4384; mhayes@cscos.com to confirm time and date.

SUNY - ESF

Professional Engineer and Fundamentals of Engineering Review Classes

The State University of New York College of Environmental Science and Forestry (SUNY-ESF) is proud to announce the addition of the **2005 Professional Engineer and Fundamentals of Engineering Review Classes** as a vital component of its OUTREACH programs. This curriculum was previously administered by Fred Wenthien, P.E., Professional Development, Syracuse Section of ASME. The program will continue under the leadership of James Hassett, Chair of Environmental Resources and Forest Engineering, along with Fred's support. SUNY-ESF is grateful for Fred's dedication to continuing education and for his direction and wisdom.

PE and FE Course Schedule for 2005/2006

- **Registration and General Introduction/Ethics**
Tuesday, October 18, 2005 at 6:00 - 8:00 pm
ALL MUST ATTEND - C&S Engineers, Inc.
- **FE Part A - C&S Engineers, Inc.**
Tuesdays, 10/25/05 - 3/21/06
- **PE Part B—ME (Mechanical Engineering) - C&S Engineers, Inc.**
Wednesdays (with one Monday), 10/26/05 - 12/7/05
- **PE Part B—Civ (Civil Engineering) & Env (Environmental Engineering) - C&S Engr**
Wednesdays, 12/14/05 - 3/22/06
- **PE Part B—EE (Electrical Engineering) - Robson & Woese Engineers**
Thursdays (with two Wednesdays), 1/5/06 - 3/2/06

Cost: \$400

Please visit this web site for more information.

<http://www.esf.edu/outreach/pd/2005/pe/>

Site Addresses

C&S Engineers, Inc.

499 Col. Eileen Collins Blvd.
N. Syracuse, NY 13212

Robson & Woese Engineers

5824 Enterprise Pkwy.
E. Syracuse, NY 13057

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Website #1 of the Month



Technology Review, MIT's Magazine of Innovation, was founded in 1899 and is now published by Technology Review Inc., an independent media company owned by the Massachusetts Institute of Technology. As the oldest technology magazine in the world, Technology Review's mission is to promote the understanding of emerging technologies, and analyze their commercial, economic, social, and political impact on business and leaders.

<http://www.technologyreview.com/index.asp>

Michael F. Brown is a 1974 graduate of Cornell University College of Engineering, with a degree in Industrial Engineering (Data Processing). After working as a computer systems analyst and programmer for a number of years, he attended Cornell University Law School, passing the Patent Bar to become a Patent Agent while still a student. Mr. Brown was admitted to the New York State Bar in 1981, and is also admitted to practice in the US District Court for the Eastern District of New York. He has prosecuted many patent applications in a wide variety of fields, from animal vaccines to computer software, avionics and automotive products, household appliances to radio communications. He has been a member of the Ithaca Rotary Club for many years, and has been a guest speaker on "Weird and Wonderful Patents" and "Intellectual Property on the Internet" at over 50 Rotary Clubs, libraries, BOCES and other organizations around New York State.

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Website #2 of the Month



GIDEP (Government-Industry Data Exchange Program) is a cooperative activity between government and industry participants seeking to reduce or eliminate expenditures of resources by sharing technical information essential during research, design, development, production and operational phases of the life cycle of systems, facilities and equipment. Since GIDEP's inception, participants have reported **over \$1 BILLION** in prevention of unplanned expenditures. That means without GIDEP, participants could have *potentially* realized additional expenses of over \$1 billion. Proper utilization of GIDEP data can materially improve the total quality and reliability of systems and components during the acquisition and logistics phases of the life cycle and reduce costs in the development and manufacture of complex systems and equipment. Go to: <http://www.gidep.org/>

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Services — Metallurgical Testing, Failure Analysis, Chemical Analysis, Mechanical Testing, Micro-electronic analysis, Weld Testing, Environmental Simulation, Polymer Testing, Full Machine Shop

Organizational Spotlight



Founded in 1975, the [Central New York Communications Association](http://www.cnyca.org/) is a non-profit service organization; the only one of its kind serving Central and Western New York.

The [CNYCA](http://www.cnyca.org/) is comprised of telecommunications and networking professionals, including users, vendors, regulators, researchers and academics, who are interested in the latest and best in telecom and networking technology

<http://www.cnyca.org/>

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officemngr@hmt-electric.com
 Mail to: **PO Box 1957 Cicero, NY 13039**



HMT, Inc. is the InterNational Electrical Testing Association member firm in CNY

Tuesday, October 18, 2005
@ Oncenter

Venture Capital PitchFest CALL TO ENTREPRENEURS!

Pitch your business to Investors!

Fuse 2005 objectives:

- Combine energies and talents to expand technology base and bring new business opportunities, talent and capital to Central NY
- Highlight regional initiatives representing business opportunities such as DestiNY USA, the medical technology and bio sciences cluster, the information and communications technology cluster, fiber/Wi-Fi broadband initiatives, and more
- Complement regional programs and accelerate the momentum of existing technology and business growth initiatives
- Attract established and emerging technology businesses to Central NY
- Retain and attract talented people

For more information, including online registration, go to:

<http://www.fuse2005.com/index.php>



fuse2005 will highlight major developments in technology in Central New York and showcase the region's emergence as a center for technology-enabled business opportunities. On October 17th and 18th, 350-400 technology thought leaders, senior executives, entrepreneurs, creative technologists, venture capitalists, and academic researches will converge at the Oncenter in Syracuse, NY to explore opportunities with prospective customers, investors, and business partners.

Monday, October 17, 2005
@ Oncenter

Senator Hillary Rodham Clinton (NY) has been invited to deliver the opening keynote of **fuse2005** at 3 p.m. on Monday, October 17, 2005.

TACNY and Syracuse PMI October 2005 Joint Dinner Meeting



Date: Tuesday October 18th, 2005 starting 5:45 p.m.

Location: Ramada Inn, 1305 Buckley Rd., Syracuse, NY 13212

Directions: From Rt. 81 (north or south) take exit 25 – 7th North St. Turn right onto 7th North Street. At first light, turn right onto Buckley Road. Ramada Inn is on the left-hand side of the road.

Presentation Topic: It Seemed Like a Good Idea at the Time!!



All of us deal with difficult issues, whether they be finding the right enabling technology or resolving nagging project constraints that prevent us from reaching our goals. This month's presentation deals with the subject of patents, intellectual property rights, and how seemingly the most innocent of decision choices can have grave consequences on our plans. Over the 200+ year history of patents in America, many inventions have been patented - some famous, some not-so-famous, and some just plain crazy. Many people are inventors, or their businesses involve inventions and innovation, yet most are not familiar with what patents are, how they are obtained, and how they work. The presentation gives the basics of invention and the patent system, and shows examples of patents from Eastman's Kodak© and the Xerox© copier to the "Combined Plow and Cannon" patented in Waterloo, New York, in 1862. The patents cover matters of life (the "Centrifugal Delivery Table") and death (an "Annunciator for the Supposed Dead"), and just plain fun (a "Gasoline Powered Pogo Stick"). There's even a patent on a better mousetrap - and a better mouse ("Transgenic Non-Human Mammals" issued to Harvard University).

Speaker: Michael F. Brown, Reg. Patent Attorney, Brown & Michaels PC

[Michael F. Brown](#) is a 1974 graduate of Cornell University College of Engineering, with a degree in Industrial Engineering (Data Processing). After working as a computer systems analyst and programmer for a number of years, he attended Cornell University Law School, passing the Patent Bar to become a Patent Agent while still a student. With Ralph R. Barnard (now retired), he founded our firm in 1980 as "Barnard and Brown". Mr. Brown was admitted to the New York State Bar in 1981, and is also admitted to practice in the US District Court for the Eastern District of New York. He has prosecuted many patent applications in a wide variety of fields, from animal vaccines to computer software, avionics and automotive products, household appliances to radio communications. An Extra Class ham radio operator of over 35 years tenure and a licensed pilot, he has a strong practical background in electronics, computers and communications technologies. A 30-year veteran Scouter, he is a recipient of the Silver Beaver award from the Baden-Powell Council, Boy Scouts of America, and wrote the Radio Merit Badge book for the BSA. He has been a member of the Ithaca Rotary Club for many years, and has been a guest speaker on "Weird and Wonderful Patents" and "Intellectual Property on the Internet" at over 50 Rotary Clubs, libraries, BOCES and other organizations around New York State.

Program Agenda: Registration & Networking from 5:45 – 6:15 p.m., Buffet dinner starts at 6:15, Chapter announcements will be made at 6:45. Speaker Presentation starts at 7:00 p.m.

Registration: Pre-registration is greatly appreciated

Please confirm your attendance by **Monday October 17th**, to either:

Al Brandenburg at abranden@sensis.com or Mary Reidy at Mary.Reidy@us.ngrid.com

Cost:
\$ 5.00 for Student Members of PMI
\$15.00 for Members of PMI/TACNY
\$17.00 for the General Public

Payment accepted at the door – Cash or Check only please.
You may pre-pay by mailing your check made payable to: *PMI Syracuse Chapter*, PO Box 7171, Syracuse, NY 13261-7171.



2005-2006 Season
by Mary Reidy
2005 Program Committee Chair

~~~~~

Your TACNY Program Committee is announcing a slightly different format for presentations this season. We hope you will enjoy this new format and welcome your thoughts for future speakers, topics and formats.

Since TACNY is an umbrella organization for approximately 23 professional and technical organizations, we would like to present the very best of each of these organizations and give you, our members, an opportunity to participate in these presentations.

We have, therefore, attempted to present quite a cross-sectional approach to our organizations. However, we realize that some changes may be necessary in order to accommodate speaker's schedules, weather conditions and other concerns.

Our first meeting will be jointly held with PMI on October 18, 2005 and will feature Mike Brown, a Patent Attorney. Mike will speak on the fascinating development and applications of patents. Mike is a much sought after speaker and is in great demand.

Our goal this year is to schedule these meetings on the 3<sup>rd</sup> Wednesday of every month and at the same location. The proposed location is the LeMoyne Manor. Please look for these announcements in future issues of the Technologist.

Here is a brief outline of our proposed programs.

A. Patent Law Theme:

1. Recent Developments and Engineering Applications in Technology or IP patents
  2. Syracuse's Position among the Top 10 Patent Cities
- Local Interests/Who is Providing the Most Patent Cases in CNY/ Areas of Promise

B. Local Sports/Weather Theme:

1. Technology that Maximizes Snow-Making

2. Global Warming and its Potential Impacts on the "Snow Capital" –  
Central New York
3. Beneath the Greens: The Underground Caverns and Infrastructure of CNY  
Golf Courses

C. Protecting the Masses ...at the Nano-Level"

1. From the Sky: Connect with the International RADAR Conference that  
IEEE Syracuse and Mohawk Valley are sponsoring
2. To the Plains: From Sonar to Sensis:
3. To the Sea: Under the Sea:  
Great Engineering Developments that make Undersea Exploration  
and Navigation Possible- Insights into the Russian Sub Adventure.

D. Communication Theme: From Cell Phones and Web Cams to .....

1. Cell Phones: First an Integration of Several Technologies:  
Satellites, Telecom, Computers, Antennas and Communication
2. Web Cams: Live-Action Video....  
Entertainment First, Privacy Issues???
3. Future: Next Possibilities...  
What will the next generation of development look like..  
What are the Designers and Engineers Thinking of.....?

We look forward to seeing you at these meetings...any questions, suggestions,  
please email [Mary.Reidy@us.ngrid.com](mailto:Mary.Reidy@us.ngrid.com)

**October 2005 Technologist**

Distributed to over 1,000 professionals!

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**TIME SENSITIVE MATERIAL  
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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.

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Quarter Page -\$75 Business Card - \$40

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