

Technologist

Includes information for the Syracuse Section of the IEEE

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NYSATE - NYS Association of Transportation Engineers	Mary Clements	Pres.	428-4627
SAE - Society of Automotive Engineers	Angie Errico	Chair	432-4363
SAS - Syracuse Astronomical Society	Stu Foster	Pres.	492-9118
SBE - Society of Broadcast Engineers	Vincent Lopez	Pres.	472-6800
SFPE - Society of Fire Protection Engineers	Dennis McCarty	Pres.	716-599-4238
SME - Society of Manufacturing Engineers	Sam Waite	Chair	432-0700
SWE - Society of Women Engineers	Susan Weaver	Pres.	432-0506

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

Vol. 10 No 7

April 2008

The Syracuse Section of the Institute of Electrical and Electronics Engineers

www.ewh.ieee.org/r1/syracuse



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

IEEECONTACT INFORMATION

IEEE Operations Center
<http://www.ieee.org>
 445 Hoes Lane
 Piscataway NJ 08855-0331
 Switchboard: +1 732 981 0060

IEEE Regional Activities
<http://www.ieee.org/ra>
 +1 732 562 5501 (voice)
 +1 732 463 3657 (fax)
regional.activities@ieee.org

SYRACUSE SECTION

Meeting Information

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

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

Check out the all new Syracuse Section website:

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



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

- Celebration of Technology Banquet : Pages 7 -11
 Information and Registration

Upcoming Events



Technologist

Date	Time	Sponsor	Location	Topic
April 9, 2008	6:00 PM	IEEE Computer Society Chapter open to all members	Verizon 201 South State St. Syracuse	SoftSwitch Tour
April 30, 2008	6:00-6:30pm Social Half-Hour 6:30-7:45pm Presentation 7:45pm-8:00pm Q&A	IEEE Syracuse IAS/PES Chapter open to all members	Whitney Auditorium OCC	Nanotechnology PDH's available
May 28, 2008	6:00-6:30pm Social Half-Hour 6:30-7:45pm Presentation 7:45pm-8:00pm Q&A	IEEE Syracuse IAS/PES Chapter open to all members	Whitney Auditorium OCC	Speaker to be announced
June - date to be determined	6:00 PM	IEEE Computer Society & Circuits & Systems Chapters open to all members	Alliance Stadium	Baseball Night Picnic & Game
August 13, 2008	11:30 AM	IEEE Computer Society Chapter open to all members	Verizon 201 South State St. Syracuse	IEEE Membership Value Pizza Lunch
November 6, 2008	6:30 PM	IEEE Circuits & Systems Chapter & Student Branch open to all members	Syracuse University	Verizon Networking Trends
November 10	Full Day	IEEE Syracuse Section, TACNY & other societies	Holiday Inn Liverpool	CNY Engineering Expo
November - date to be determined	7:30 PM	IEEE Syracuse Section	War Memorial	Hockey Night
December 12	6:00 PM	IEEE Computer Society Chapter open to all members		Holiday Party hosted by the Cobb's



Joint Empire Chapter IAEI and Syracuse Chapter IEEE-IAS/PES

Presents

"2008 NEC International Association of Electrical Inspectors Analysis of Changes"

Saturday April 19, 2008

Barbagallo's Restaurant

6344 E. Molloy Rd., East Syracuse, NY 13057 (<http://www.barbagallos.com/>) Phone: (315) 437-7715



Directions:

Thruway - Exit 35 (Carrier Circle) turn right onto Thompson Road, go xx mile and turn right onto E. Molloy Rd, xx mile on right side next to gas station

I-81 Get onto I-690 East, proceed to Thompson Rd exit 16N (North), proceed north past Carrier Circle to E. Molloy Rd and turn right, xx mile on right side next to gas station

Airport - proceed to I-81 north on ramp. Stay right, follow signs for Taft Road. Do **NOT** get on I-81, right onto East Taft Rd., proceed xx miles, right onto Northern Blvd, stay in right lane, proceed xx miles, road turns right and becomes E. Molloy Rd. Restaurant is just past first traffic light on left.

Break refreshments sponsorship is welcome! Donated door prizes are welcome! – Contact Larry Kinne

AGENDA

7:30 - 8:00AM Registration

8:00AM - 12 noon Seminar with 3, 10 min. breaks

12 noon - 1PM Lunch

1 - 3PM Seminar, Q&A, and CEU issue with 2, 10 min. breaks

6 PDHs are available for NY Professional Engineers

3 - 3:30PM IAEI E-board meeting

Presenters: Jeff Sargent, NFPA Electrical Engineering (Key Speaker)
Gene Spencer, Syracuse University
Michael Miers, Sr., NY Atlantic Inland
Neil LaBrake, Jr., PE, National Grid Company
Tom Malagisi, Regional UL Representative (MC)

Description: This in depth analysis from IAEI will cover the major changes in the articles of the new 2008 NEC. A copy of the 2008 NEC IAEI Analysis of Changes will be provided at the seminar at an additional cost.

Please **RSVP** to **Larry Kinne**, Secretary/Treasurer Empire Chapter IAEI, 7910 Rinaldo Blvd. W., Bridgeport, NY 13030 **Phone:** 315. 633.0027; E-mail: kinne@twcny.rr.com for the seminar and for table top vendor displays available at IAEI member registration price.

Registration is **\$80** without the book or **\$140** with the book (IAEI & IEEE members) or **\$100** without the book or **\$160** with the book (nonmembers) mailed by **April 11th, 2008** to **Larry Kinne** confirmed prior to 5pm, April 14th by completing the following:

Name _____	Employer _____
Address _____	City _____ State _____ ZIP _____
Phone _____	E-mail _____
IAEI & IEEE Members Enter Membership # _____	Enter Last 4 digits of SSN _____
Registering with Analysis Book? <input type="checkbox"/> Yes <input type="checkbox"/> No	Make checks payable to Empire Chapter IAEI .

To get IAEI member rate, join IAEI by including separate check for **\$90** payable to IAEI.

The 2008 NEC Analysis of Changes book can be purchased for **\$60** payable to **Empire Chapter IAEI**.

The 2008 NEC books can be ordered separately from NFPA at <http://www.nfpa.org/catalog/>

No reservations or walk-ins will be accepted after April 15th, 2008.

Visit our Chapter Web Site at: <http://empire.iaei.org>

(Members receive bi-monthly IAEI magazine & discounts on code books & seminars. Apply to be a member!)

IEEE Syracuse Section Fellows Night

Topic: Keys to Welch Allyn's Success: An Engineer's Point of View

Date: Thursday, April 24, 2008

Speaker: Richard W. Newman, P.E., Welch Allyn



Times: 6:00 PM - Networking; 6:30 PM - Dinner; 7:30 PM - Presentations

Location: Syracuse University Sheraton, 801 University Ave. Syracuse, NY

Cost: \$15 – IEEE members (plus one guest @ \$15)
\$10 – IEEE Fellows & Life Members (plus one guest @ \$10)
\$5 – IEEE Student Members (plus one nonmember guest @ \$5)
\$20 – Nonmembers

Reservations: Mike Hayes, 455-2000, mhayes@cscos.com or m.hayes@ieee.org, by close of business Friday, April 18, 2008.

Please join us for our annual IEEE Syracuse Section Fellows Night meeting, our premiere event of the year. Mr. Newman will cover some of the history of Welch Allyn, giving examples of some of the more successful products along with the technology (how it works) and physiology (the anatomy of the human body) behind each. He'll finish with some of the keys to success that he learned in working at Welch Allyn for nearly 40 years.

Welch Allyn is a world-wide leader in design, manufacture, and distribution of medical diagnostic devices. Mr. Newman was Vice President Advanced Research at Welch Allyn. The Advanced Research Group is responsible for determining how medicine will be practiced in ten years and assimilating those technologies required. Areas of interest include ophthalmology, otolaryngology, cardio-pulmonary, endoscopy, women's health, vital signs monitoring, bioinformatics/communications, lighting, imaging, molecular diagnostics, and nanotechnology.

Mr. Newman has a B.S. Mechanical Engineering, Cornell University and M.S Mechanical Engineering, Syracuse University. His awards include the 1994 ASME Holley Medal; 2001 SAGES Pioneer in Endoscopy Award; Fellow, American Institute for Medical and Biological Engineering; and the Richard W. Newman Innovation Center at Syracuse University. He is currently an Adjunct Professor at the Syracuse University College of Law - NYSTAR NYS Science & Technology Law Center. Mr. Newman has 13 U.S. patents issued and 9 pending.

1. Haptics Takes Hold

Picture this: in a horrible accident, a farmer in a remote area has his arm torn off by a hay baler. His local hospital is equipped to handle the procedure to save his arm, but the surgeons have little experience reattaching limbs. Find out how the field of haptics, the study of the manipulation of remote objects through touch

2. IEEE Joins Consortium to Provide Free Access to Physics Articles The IEEE is collaborating with a consortium of high-energy-physics organizations and their libraries to offer free online access to physics literature that's usually available only by subscription.

3. Computer History Decrypted: Though many believe that the Eniac computer was the world's first programmable digital electronic computer, the U.K.'s Colossus machine holds that distinction. During World War II, it allowed British cryptologists to break an entire day's communication between Berlin and German field commanders in a matter of hours.

4. Part-time Passions: Read about members who challenge themselves in diving competitions and races to the North Pole

5. 2007 Membership Growth Shows Mixed Picture: The IEEE saw a small increase in overall membership last year, while student membership dipped.

6. Five Named to Board of Directors: The IEEE Assembly named five members to the IEEE Board of Directors, who began serving one-year terms on 1 January.

7. Upcoming IEEE Conferences: Biomedical imaging, computational intelligence, and remote sensing are some of the topics to be covered at six IEEE conferences taking place from May to July in cities like Boston, Hong Kong, and Paris.

8. Call for Nominations for Eight Education Awards: The IEEE Educational Activities Board seeks nominations for eight awards that recognize and honor individuals, companies, and IEEE sections that have made significant contributions to engineering and technical education. The deadline for nominations is 30 April.

9. Books of Interest: Check out some recently published Wiley-IEEE Press books on topics that include VLSI circuit design, wireless LAN radios, and software process dynamics.

10. Who's on the Ballot: On 1 May, the IEEE Board of Directors will announce the candidates to be placed on the 2008 ballot.

11. New IEEE Webinar on Fiber-Optic Communications: On 9 April, watch IEEE Fellow Christopher R. Doerr, editor in chief of "IEEE Photonics Technology Letters," present an overview of the latest advances in photonic integrated circuits and indium phosphide (InP) monolithic photonic integrated circuits for fiber-optic networks.

12. IEEE Standards Association to Host Seminar in Tokyo: On 14 May, the IEEE Standards Association Corporate Advisory Group will present "Global Standards, Local Benefits: The IEEE Standards Association" in Tokyo. The seminar will cover topics such as the IEEE-SA and global standards, intellectual property rights, and the entity standards process. Representatives from Japan's government ministries responsible for standardization will make presentations



Institute of Electrical & Electronics Engineers Syracuse Section

Tour of a SoftSwitch (NorTel 250,000 Line Internet Protocol Switch)

Date: Wednesday April 9th, 2008.

Topic: Latest Switching Technology at Verizon

Speaker: Craig E. Cobb P.E.

Location: Verizon
201 South State Street, Syracuse, NY

Schedule: 5:50 P.M. – Register with Security (Fayette Street entrance)
6:00 P.M. – Introductory Presentation
6:15 P.M. – Tour of the SoftSwitch
7:00 P.M. - Conclusion

Cost: No charge.

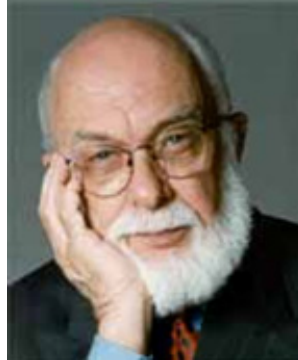
Reservations: Craig Cobb
Phone: (315) 446-0625 – home
(315) 448-2025 – office
Email: c.cobb@ieee.org

Reservations are required by Friday, April 4, 2008 at 5:00PM.

Attendance limited to the first 20 people to register.

Anyone is welcome to attend this tour.

Tenth Annual Celebration of Technology Banquet



James Randi

Pseudo-Technology in the New Millennium

"New" Technologies for the 21st Century Designed to Drain You of Your Profits

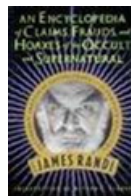
Date: Monday, May 12th, 2008

Place: Holiday Inn, 441 Electronics Parkway, Liverpool, NY

Times: cash bar 5:00 PM, dinner 6:30, opening of program 7:30, President's Message 7:45, Speaker 8:00. Awards presentation to follow.

Cost: \$30 on or before May 1, \$40 after; Students \$15, \$25 after

Registration: Please fill out registration form below



Presentation

The average citizen is suspicious of science and technology. James Randi addresses this unfortunate misunderstanding in an effective and entertaining fashion by asking the right questions — and then answering them.

Does a simple felt-tip pen detect counterfeit money for merchants? Can a registered nurse using "quantum mechanics technology" heal a patient by simply passing her hands over her patient? Does a "high-tech" dowsing rod enable the U.S. Border Patrol to find smuggled aliens? Can a simple, sealed, plastic ball replace detergent in your washing machine?

James Randi answers these questions and more while showing you how to protect your and your company's pocketbook, by outlining how to spot and expose these cons of the new millennium.

About James Randi

James Randi is a retired professional magician ("The Amazing Randi"), author, lecturer, amateur archaeologist/astronomer. Born in 1928 in Toronto, Canada, where he received his high school education, he was naturalized a U.S. citizen in 1987, and now lives in Florida. He is single.

Mr. Randi was host of *The Randi Show* on WOR-Radio, New York City (1966/67) and has had his own TV Specials in Australia, Belgium, Canada, England, Hungary, Italy, Japan, South Korea, and the USA. He has appeared in a great many TV documentaries, interview shows and variety productions in France, Germany, Japan, South Korea, Italy, the UK and other countries.

He has done three world tours as a performer and lecturer through the Far East, Europe, Australia and North and South America. In 1974 he performed by special request at the White House. He spends much of his time traveling between performances and lectures all over the globe. He was a founding fellow of the Committee for the Scientific Investigation of Claims of the Paranormal (CSICOP) based in Buffalo, NY. This organization of academics and other experts is devoted to the examination of paranormal, occult, and supernatural claims.

Mr. Randi also writes a column, "Twas Brillig," for *The Skeptic*, the journal of the Skeptic's Society, headquartered in California. He is editor of *SWIFT*, the online newsletter of the James Randi Educational Foundation (JREF) (www.randi.org) which was set up in 1996 in Fort Lauderdale, Florida, as a data source for educators, students, media, and researchers.

Individual Registration – 2008 Celebration of Technology

Name(s): _____

Address: _____

Phone: _____

Email: _____

		Mailed On Or Before May 1, 2008		Mailed On Or After May 2, 2008	
People	Number	Cost per Person	Subtotal Cost	Cost per Person	Cost per Person
Adults		x \$30		x \$40	
Children (18 or under)		x \$15		x \$25	
	Total Cost	=		=	

Make checks payable to “TACNY- Celebration 2008” and mail with this registration form to:

Bill Busher
Inficon
2 Technology Place
East Syracuse, NY 13057

People paying at door will be charged \$40/\$25 as applicable.

Please pick up your tickets when you check in.

Contact Bill Busher at celebration@tacny.org or call 434-1242 if you have any questions about registration.

Advertising and Exhibit Information

Ads

Quarter, half and full page ad space is available in the banquet program. **The cost is \$50, \$75 and \$100 respectively.**

Ad specs: B&W ads, 300 dpi resolution. Ad formats may be .tiff, .eps, .ai, or press-quality PDF. Ads may **NOT** be submitted in Word or PowerPoint.

1/4 page ad is 3.438 inches wide by 4.438 inches high

1/2 page ad is 7 inches wide by 4.438 inches high

Full page ad is 7 inches wide by 9 inches high

Email the ad file by **MONDAY, APRIL 21, 2008** to Mike Hayes at celebration@tacny.org.

Exhibits

12' by 5' exhibit space is available (includes table, chairs, table cloth and utilities) for **\$100**. Exhibit space is **free** for **non-profit professional technical organizations and schools**. Reservations for exhibit space will be accepted **through MONDAY MAY 8, 2008**.

Special Offer

Full page ad **and** exhibit space — **\$160**.

Table of 10 at the Banquet

We are offering tables of 8 at the banquet for \$300 (\$400 if reservation made on or after Monday, May 6, 2008). We will have a sign with your organization's name on your table. Organizations that reserve on or before Monday, April 28, 2008 will also be listed in the program.

Please fill out the registration form on the next page.

Organization Registration Form

Name(s): _____

Organization: _____

Address: _____

Phone: _____

Email: _____

Please list names of people who will be attending if you buy a table. Substitutions are permitted, but please let us know who they are replacing.

Type	#	½ Page Ad	Subtotal
¼ Page Ad		x \$50	
½ Page Ad		x 75	
Full Page Ad		x \$100	
Exhibit		x \$100	
Special: Full Page Ad & Exhibit		x \$160	
Table of 8 on or before May 5, 2008		x \$300	
Table of 8 on or after May 6, 2008		x \$400	
		Total Cost =	

Make checks payable to “TACNY- Celebration 2008” and mail with this registration form to:

Mike Hayes
C&S Companies
499 Col Eileen Collins Blvd
Syracuse, NY 13212

Call Mike Hayes at (315) 455-2000 or email celebration@tacny.org if you have any questions about ads or exhibits.

April 2008 Technologist

Distributed to over 930 professionals!

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**TIME SENSITIVE MATERIAL
POSTMASTER, PLEASE RUSH**



Reach your audience
through us!



The **Technologist** is published monthly except July and August by the Technology Alliance of Central New York. P.O. BOX 196 SYRACUSE, N.Y. 13201. Cost is included in dues for each member of the affiliated club sections. Please send address changes to the affiliate organizations.

Deadline for **Technologist** submissions is the 17th of each month.

Technologist Advertising Rates

Single Issue Prices:

Full Page - \$150 Half Page - \$100
Quarter Page - \$75 Business Card - \$40

Ten Issue Price (annual subscription)

Full Page - \$900 Half Page - \$600
Quarter Page \$400 Business Card - \$200

www.tacny.org

