

Calendar of Events

Upcoming in May

Wed. May 6, 6PM
[VoIP Student Projects](#)
 Communications

Wed. May 7, 6:30pm
[Chicago Road Congestion](#)
 Career Networking

Tues. May 12
[Mini-Symposium](#)
 Electromagnetic Compatibility

Tues. May 12, 7pm
[Executive Committee](#)
 IEEE-Chicago Section

Wed. May 13, 5:30pm
[Substation Fire Protection](#)
 Power & Energy

Wed. May 20, 5:30pm
[Wind Turbines](#)
 Industry Applications

Wed. May 27, 6:30pm
[Unused Wireless Spectrum](#)
 Fox Valley

Upcoming in June

Wed. June 3, 6:30pm
[LinkedIn How To](#)
 Career Networking

June 7-9, Ontario
[EIT 2009](#)
[Electro/Information Tech](#)
 IEEE Region 4

Wed. June 17, 6:30pm
[Career Management](#)
 Fox Valley

Email upcoming events to [Pat Hutson](#) for inclusion on the IEEE-Chicago [website](#) calendar and to [Michele Beaulieux](#) for inclusion in the e-Scanfax calendar.

This Month's Articles

Chair's Corner: Thanks for the Memories!

Our current chair found his leadership role a humbling learning experience. [\[more\]](#)

IEEE-Chicago Section Election on May 12th

The slate of nominees is now available for review. [\[more\]](#)

First Chicago Section Meeting Featured at IEEE History Conference

IEEE-Chicago Section History Chair George Thomas to present at IEEE Conference on the History of Technical Societies. [\[more\]](#)

New and Old Fellows Mingle at IEEE-Chicago Dinner Dance

The Annual Dinner Dance was a lovely evening in honor of the Chicago Section's new IEEE Fellows and Outstanding Members. [\[more\]](#)

Third EMC Scholarship Awarded to Worthy Young Woman

A graduate student already working full-time as an engineer, Louann Devine was all smiles when she received the third EMC Scholarship check. [\[more\]](#)

Chair's Corner: Thanks for the Memories!

My term as Chair of the Chicago Section is coming to an end. As I look back, I want to thank the members of the Chicago Section for supporting me in my journey as Chair. Thanks for the many learning experiences and the vivid memories!

This issue of e-Scanfax is the last for which I'll write a Chair's Corner. (The next issue will come out September 1.) My wife Toni suggested I write on the things I have learned. The very first thing that comes to mind is the quality of IEEE volunteers. The fellow members I have had the privilege to work with are a special group of people: intelligent, well educated and desiring to make a difference in our world. Some have lived the history of the Chicago Section— while others are students or new graduates seeking to make their mark in this world. But all are playing a role in making the Chicago Section a great organization.

As Chair, I experienced the desperation of trying to implement a plan with a shortage of resources and a looming deadline. But I have also experienced the sweet success of accomplishment. Seeing young students excited by technology at the E-week exhibits and being genuinely thanked by award recipients at the annual Awards Dinner Dance are the experiences that make it all worthwhile. It is at those times that I see the value of what we do as IEEE volunteers.

But most of all, I am humbled by the experience. It has been a privilege and an honor to serve as Chair of the Chicago Section. I appreciate the power of the organization and its ability to make a difference in people's lives. I realize how little I can accomplish alone and how much we as a group are capable of.

As a result, I'm still saying "Yes" to IEEE. I am looking at several other volunteer opportunities in IEEE to continue my involvement, my growth, and my contributions to a great profession. There are more challenges, more learning opportunities, and more successes in my IEEE future. I invite you to join me in creating new memories for all of us.

Bernard Sander, Chair
 IEEE-Chicago Section



Having a good time at the 25th Annual DuPage Engineers Week Expo at Illinois Institute of Technology this year were IEEE member and IIT professor Carol Davids and Chicago Chapter Chair Bernie Sander. They are flanked by Christina and Savannah —Sander's granddaughters and . . . potential future engineers!

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IEEE-Chicago Section Election on May 12th

Participate in our local election: attend the next Chicago Section Executive Committee Meeting. The call for nominations of candidates for Chicago Section offices, which appeared in the April issue of e-Scanfax, resulted in the filling of a number of vacant leadership positions with very qualified and enthused new leaders as the slate below attests. The call for nominations officially closed April 15th, 2009 with the result that none of the elected positions are contested. In accordance with the IEEE-Chicago Section Operating Manual: "If only one nomination is made for each office, the election shall be made by acclamation at a meeting of the Section membership or the Section Executive Committee meeting." **The election will take place at the next Executive Committee meeting on Tuesday, May 12, 2009 at 7:00pm at DeVry University in Addison, Illinois.** Please note that two important positions, Professional Activities and Student Activities, remain vacant. According to Section 4 of the manual, any vacancy occurring during the year shall be filled by a majority vote of the Section Executive Committee. If you are interested in serving in these capacities, please contact [John Zulaski](#).

2009/2010 Nominees for IEEE-Chicago Executive Committee

IEEE-Chicago Section Officers

Office	Nominee
Chair	William Nartker
Vice Chair	James Phillips
Treasurer	Robert Burke
Secretary	Sharon Phillips

IEEE-Chicago Elected Standing Committee Chairs

Committee	Nominee
Advisory	Bernie Sander
Awards	Jianhui Wang
Conference	Alireza Khaligh
Membership Development	John Zulaski
Professional Activities	Vacant
Program	Nicholas Buris
Publication	George Thomas
Special Events	Yellpanta Ramakrishna
Student Activities	Vacant

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First Chicago Section Meeting Featured at IEEE History Conference

This year, IEEE celebrates 125 years of innovation and ingenuity. **Chicago Section History Chair George Thomas** will be attending the [IEEE Conference on the History of Technical Societies](#) in Philadelphia this August to present his paper on the "Reenactment of the IEEE Chicago Section's Inaugural Meeting."



At the 2004 reenactment were front row: Norman Phoenix, Connie Kelly, and Dennis Lamont; second row: Jim Fancher, George Thomas, Ron Kollman, and Prof. James Stine.

IEEE's roots go back to the formation of the **American Institute of Electrical Engineers (AIEE)** in 1884, when electricity was just beginning to become a major force in society. There was one major established electrical industry, the telegraph, which—beginning in the 1840s—had come to connect the world with a

communications system faster than the speed of transportation. A second major area had only barely gotten underway: electric power and light, originating in Thomas Edison's inventions.

The Chicago Section was the first section formed outside of the New York headquarters of the AIEE. Twenty-one "western engineers" sent a petition to New York requesting that a local meeting of AIEE members be held in Chicago. Permission was granted and the first meeting was held on March 21, 1894 at the **Armour Institute**—predecessor to the **Illinois Institute of Technology (IIT)**. The topic of the meeting was a reading of the paper by **Professor William A. Anthony** of **Cornell University** entitled "**On the Effect of Heavy Gases in the Chamber of an Incandescent Lamp.**"

The ability to hold a local meeting of the AIEE in Chicago is partly attributed to the great success of the 1893 **World's Columbian Exposition**, which showcased developments in electrical engineering. Electricity powered all aspects of the fair including the elevated railways and provided illumination of the fair grounds, buildings, waterways, and the sky searchlights—challenging the need for natural gas.

To honor the 110th anniversary of its inaugural meeting, the Chicago Section held a reenactment of the event on March 23, 2004 on the same IIT campus. Re-enactors, using 21st century presentation technology, read the original Chicago section paper. Keeping in the spirit of the original evening, a lively debate followed on the merits of the paper.

More on the conference and Thomas' paper will be published in the 2008/2009 Year In Review. To help celebrate IEEE's 125 years of innovation and ingenuity, visit the [anniversary website](#) and [advertise](#) in Chicago Section publications!

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New and Old Fellows Mingle at Dinner Dance

Over 55 people, including seven IEEE fellows, attended the **IEEE-Chicago Section Dinner Dance on Saturday evening, March 28th** at the White Eagle Restaurant in Niles, Illinois. The drinks were good, the food plentiful, and the disk jockey enticed many couples onto the dance floor. It was a lovely evening with old friends renewing acquaintance and new friends being introduced.



The seven IEEE Fellows attending the dinner dance were Tom Tobin, Roger Peterson, Nick Buris, Kenneth Zdunek, Thrasyvoulos Pappas, Ashfaq Khokhar, and Mohammad Shahidehpour.

The highlight was the recognition of three new IEEE Fellows from the Chicago Section. At the podium, new Fellow **Nick Buris**, Manager of the Microwave Technologies Research Lab at **Motorola**, reflected on the random nature of events. If not for a fluke on an entrance exam many years ago, he might have ended up in naval rather than electrical engineering. And, while initially elated about being named a Fellow, he later realized that some have done more and gotten less, and others have done less and gotten more.

Ashfaq Khokhar, Professor of Electrical and Computer Engineering at the **University of Illinois at Chicago** and another new IEEE Fellow, acknowledged that it was a great honor to be at the dinner but he wanted to recognize that the work had not just been his, but that of many students as well. "The award," he said, "goes to

them, too.” He added that the award was a “secondary fruit” of work he enjoys doing.

In his reflections on becoming an IEEE Fellow, **Kenneth Zdunek**, Research Faculty Member in Electrical and Computer Engineering at **Illinois Institute of Technology** (IIT), told the story about the person on the street in Chicago who asked a passerby “How do you get to Orchestra Hall?” The passerby answered, “Practice.”

As master of ceremonies, IEEE-Chicago Section Chair **Bernie Sander** gave out the IEEE-Chicago Section Awards. **Northwestern University** received the **Friend of the IEEE-Chicago Section Award** for its support of an IEEE student chapter, of faculty members’ participation in IEEE events, and through ads in e-Scanfax and the Year in Review.



Tony & Bernie Sander, Jack and Karen Black

Mohammad Shahidehpour, who is Carl Bodine Distinguished Professor and Chair of the Electrical and Computer Engineering Department at the **Illinois Institute of Technology (IIT)**, received the **IEEE-Chicago Section Distinguished Mentoring Award**. As an IIT faculty member for the past 25 years, he has mentored many students.

Four members received the **IEEE-Chicago Section Outstanding Member Award**:

- **Hugh Edfors** for his commitment and many years of service to the Fox Valley Subsection;
- **Pat Hutson** for the design and development of the new section website;
- **Bill Nartker** for creating, organizing, and managing the Career Network Group for the IEEE-Chicago Section; and
- **Jianhui Wang** for effectively managing the Section Awards Program.

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Third EMC Scholarship Awarded to Worthy Young Woman



With a big smile, Louann Devine accepts her scholarship check from Ray Klouda.

At the April 22 **IEEE Electromagnetic Compatibility (EMC) Society Chicago Chapter** meeting at the **ITT Technical Institute** in Mount Prospect, Chapter Membership Chair **Ray Klouda** presented the chapter’s third scholarship check for \$1000 to Louann Devine.

A graduate student in the **University of Illinois at Chicago (UIC)** EMC program, Devine also works full time as a Field Applications Engineer for **Agilent Technologies, Inc.** In her scholarship application, Devine wrote: “I anticipate applying my degree to improving electromagnetic testing standards and applying EMC considerations early in product development. Thus far in my engineering career, I have seen several electromagnetic issues produce system failures and product cancelations due to poor electromagnetic designs. During my graduate classes, I have re-analyzed a few memorable design challenges that were due to both poor EMC design and improper EMC testing.

“I learned from Paul Clayton’s book, **Introduction to Electromagnetic Compatibility**, and my class that pre-testing for conducted and radiated tests should always be performed and that radiated failures are typically due to conducted

emissions at lower frequencies that re-radiate on the device and cause radiated failures. [One of the EMC failures] I faced was generated by conducted emissions re-radiating from a poorly grounded area and causing multiple harmonics to radiate, thus causing radiated emissions to fail. In short, this Federal Communications Commission (FCC) failure was a challenge for a young engineer to root cause and analyze, but was a great learning opportunity.”

The Chapter has, quite obviously found a very worthy recipient for its third scholarship award, which was given in memory of Klouda’s wife, Joyce. Klouda thanked the group for acknowledging her support of his volunteer activities to the Society.

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