

Calendar of Events

Upcoming in January

Tues. Jan. 13, 7:00pm
[Executive Committee](#)
 IEEE-Chicago Section

Wed. Jan 14, 5:30pm
[Katrina & Gustav, too](#)
 Power & Energy

Wed. Jan. 21, 5:30pm
[Global Warming](#)
 Industry Applications

Mon, Jan. 26, 6:45pm
[Linux on a USB Drive:](#)
[Product Safety](#)
 Consultants' Network

Upcoming in February

Wed, Feb. 18, 6:30pm
[EMI-EMC Careers](#)
 Electromagnetic Compatibility

Thurs. Feb. 19, 6:30pm
[O'Hare Modernization](#)
 Engineers Week

Fri. Feb 20,
[Washington Award Banquet](#)
 Engineers Week

Sat. Feb. 21, 11am-3:30pm
[DuPage Engineers Week Expo](#)
 Engineers Week

Email upcoming events to [Pat Hutson](#) for inclusion on the IEEE-Chicago [website](#) calendar.

This Month's Articles

Chair's Corner: You! – Yes, You are a Vital Member of IEEE!

IEEE-Chicago Chair Bernie Sander gives some suggestions for quick, fun, and satisfying volunteer projects. [\[more\]](#)

Four Chicago Section Members Elevated to IEEE Fellow

Ashfaq Ahmad Khokhar of the University of Illinois at Chicago and Nicholas E. Buris, Lih-Tyng Hwang, and Kenneth J. Zdunek of Motorola are in the 2009 Class of IEEE Fellows. [\[more\]](#)

Chance to be an IEEE-Chicago Fund Founder Limited to January

IEEE-Chicago seeks pledged support to demonstrate to the IEEE Executive Committee the section's commitment to pursuing educational, historical, and peer recognition activities. [\[more\]](#)

Increase Desired in Female-to-Male Ratio in Engineering

As part of Engineering Week, two venerable Chicago Institutions are providing special opportunities to introduce girls to engineering. [\[more\]](#)

Volunteer Judges Sought for Future Cities Competition

Support students' visions of the future by serving as a volunteer judge for one or two Saturdays this month. [\[more\]](#)

Conferences Call for Papers, Presenters, and Sponsors

The 2009 Electro/Information Technology Conference (EIT 2009) and the IT Security & Forensics Conference & Expo, NetSecure09, are soliciting technical papers, presentations, and sponsors. [\[more\]](#)

DuPage Engineers Week to Focus on Sustainability & Alternative Energy

This year's Speaker's Forum features the O'Hare Modernization Program, and the ever-popular DuPage Area Engineers Week Expo celebrates its 25th Anniversary. [\[more\]](#)

Clyde Baker to Receive 2009 Washington Award

The Chicagoland Engineering Awards Banquet on February 20th will feature the presentation of the 96th Washington Award to an expert in deep foundations for high-rise structures. [\[more\]](#)

IEEE International Election Results In

Pedro Ray, President of Ray Engineers in San Juan, Puerto Rico, USA, was elected IEEE President-Elect. For complete election results, visit the [IEEE election webpage](#).

Chair's Column: You! – Yes, You are a Vital Member of IEEE!



I want to address this column to the members of the Chicago Section who have thought about getting more involved, but have hesitated. You may not know how to get started or how to limit your involvement to your available time. You may have ideas about interesting events but don't know how to introduce them for further consideration. If you want to help make the Chicago Section a better professional organization yet have questions, read on.

Attending technical meetings sponsored by a chapter, affinity group, or subsection is a good place to start. Providing feedback or suggestions for future events to the planners will help them plan future meetings. Taking responsibility for planning and implementing a single event is an even bigger help. Volunteering to present a talk at a technical meeting sponsored by a chapter or subsection is

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always welcomed.

I have two very different specific suggestions, both requiring a limited time commitment for great payback.

The **Fox Valley subsection** is looking for new ideas and presenters for its technical meetings. The subsection seeks to provide technical meetings that are of broad interest to electrical engineers. Popular topics drawing a large audience are energy, transportation, communication networks, and engineering management. The process for planning an event is well defined, and other members of the Fox Valley team are available to answer questions. Information on past talks and the planning process is at the Fox Valley [website](#). You may also contact the current Fox Valley Chair [Fab Devetak](#).



2008 DuPage Engineers Week

And, at the **DuPage Engineers Week** held at **Illinois Institute of Technology Rice Campus** on **Saturday, February 21**, IEEE-Chicago will have a booth featuring robotics components. If you are interested in working with young students at this single-day event, please contact [Andy Mehta](#).

This is just a start. Please feel free to [contact me](#) with questions, thoughts, and ideas.

Bernard Sander, Jr.
Chair, IEEE-Chicago Section

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Four Chicago Section Members Elevated to IEEE Fellow

In the 2009 class of IEEE Fellows, Professor **Ashfaq Ahmad Khokhar** of the **University of Illinois at Chicago** was recognized for his contributions to multimedia computing and database systems along with three **Motorola** employees: **Nicholas E. Buris** for contributions to electromagnetic design automation and multidisciplinary optimization of complex wireless communications problems; **Lih-Tyng Hwang** for contributions to System-in-a-Package technologies; and **Kenneth J. Zdunek** for leadership in integrating voice and data communications in networks. IEEE Fellows are an elite group selected from a global pool following a rigorous evaluation procedure. The designation recognizes unusual distinction and extraordinary accomplishment. More information our Chicago Section 2009 fellows forthcoming in future issues of e-Scanfax.



Ashfaq Ahmad Khokhar

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Chance to be an IEEE-Chicago Fund Founder Limited to January

While the IEEE-Chicago Section has accomplished much, we have much more to do. Our newly formed **Education Committee** would like to expand outreach to pre-university students by providing prepared experiments, displays, and workbooks for teachers and volunteers to use to demonstrate what an engineer does and how math and science skills are used to benefit humanity. The **History**



Committee would like to do more to recognize the rich history of Chicago area technology pioneers with a permanent local exhibition of their accomplishments. The **Student Activities Committee** would like to support local college and university students through scholarships, fellowships, and student grants.

Students participate in an IEEE-sponsored tour of the IEEE PES Transmission and Distribution Conference and Exposition at McCormick Place in Chicago in April, 2008.

The above goals would be wonderful if achieved, but they won't happen without additional financial support. Therefore, the IEEE-Chicago Section is establishing a restricted fund, **The IEEE-Chicago Section Fund**, to support major Chicago Section initiatives. **The IEEE Foundation**, which is qualified as a 501c(3) organization under the U.S. Internal Revenue Code and is eligible to receive tax-deductible contributions in the United States, will manage the fiscal aspects of the fund; the Chicago Section will maintain control of allocations, determining which projects the fund would support and by how much.

What does this arrangement mean for you? It means you can receive a tax donation and also know that your donation will support educational, historical, and peer recognition activities. And, if you contribute financially to the establishment of the fund, you can also receive special recognition as a **Chicago Fund Founder**.

Please consider becoming a **Chicago Fund Founder** by pledging a contribution this month. The **IEEE Foundation Board of Directors** approved the IEEE-Chicago fund in November 2008. Now, we are seeking the approval of the **IEEE Executive Committee**, which meets in February 2009. A demonstration of strong pledged support will greatly influence the committee's decision. So, please become a **Chicago Fund Founder** and make your pledge before January 31, 2009. Of course, you are welcome to donate anonymously, if that is your preference. Click here for the fund pledge form.

In addition, please investigate whether your company matches employee contributions or has a charitable foundation. If so, provide **John Zulaski** with the contact information for the philanthropic or human resources director, and John will follow up. Also, if you have questions about giving, about how the fund is to be managed, or ideas for projects that the fund might support, please [email](#) or call John at 847-259-8135.

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Increase Desired in Female-to-Male Ratio in Engineering

As part of Engineering Week, two venerable Chicago Institutions are providing special opportunities to introduce girls to engineering, but the programs fill up. So, register your daughters, granddaughters, nieces, and friends as soon as possible. This year, **Argonne National Laboratory's Introduce a Girl to Engineering Day** is **Thursday, February 19**. Sixth to eighth grade girls interested in math, science or engineering should [download](#) and send in their applications by January 16. **Northwestern University's 38th annual Career Day for Girls**, on **February 28**, exposes girls in grades 6th-12th to the different areas of engineering, including electrical. [Download](#) registrations, which are due February 8.

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Volunteer Judges Sought for Future Cities Competition

Support students' visions of the future by serving as a volunteer judge for the 2009 **Chicago Regional Future Cities Competition**, which is one of the many events taking place as part of the **2009 National Engineers Week**. Judges are needed on two Saturdays this month: Saturday, **January 17** in downtown Chicago and Saturday, **January 24** at the University of Illinois at Chicago. For more information, visit the Future City [website](#).



Susan, Kalee and Tonilee show off their city, which won second place in the 2007 Future City Design Competition.

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International EIT Conference Calls for Papers

The **2009 Electro/Information Technology Conference (EIT 2009)**, sponsored by **IEEE Region 4** (to which the Chicago Section belongs), is seeking papers on basic and applied research in electrical and computer engineering as related to information technology and its applications. Full papers are due **February 27, 2009**. The **University of Windsor** in Ontario, Canada will host the conference from **June 7 to 9, 2009**. Confirmed keynote speakers include **Lotfi Zadeh** of the University of California at Berkeley on soft computing and **Hojjat Adeli** of Ohio State University on neural networks. For more information, visit the conference [website](#).



Lotfi Zadeh

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NetSecure Seeks Presenters and Sponsors

The **IT Security & Forensics Conference & Expo, NetSecure09**, is currently accepting proposals for presentations, technical sessions, panel discussions, and tutorials. This multi-track, technical conference includes discussion and debate over ethical hacking, security, digital forensics and steganography, policy and compliance, privacy, security of wireless and cloud computing and identity theft. Co-sponsored by the **IEEE-Chicago Fox Valley Subsection**, the conference will be held at the **Illinois Institute of Technology (IIT) Rice Campus** in Wheaton on **Thursday, March 12, 2009**. For information on presenting or sponsoring, please visit the NetSecure09 [website](#).

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DuPage Engineers Week to Focus on Sustainability & Alternative Energy

The 25th Annual **DuPage Area Engineers Week** will focus on **"Sustainability and Alternative Energy Resources."** With the demand for natural resources currently at unprecedented levels, engineers are at the forefront of applying new and sustainable ways in which the world can function. This year's Speaker's Forum features **Rosemarie Andolino**, Executive Director of the **O'Hare Modernization Program**, who will address the logistics, timeline, and the surprising "green" aspects of project. The 2009 Speaker's Forum will begin on Thursday, February 19th at 6:30 p.m. with a brief reception.



Rosemarie Andolino

On **Saturday, February 21st from 11:00 a.m. to 3:30 p.m.**, future engineers and learners of all ages can participate in the highly interactive exhibits at the **25th Annual DuPage Area Engineers Week Expo**. Free and open to the

public, the Expo features everything from model airplanes and a wind tunnel exhibit, to lasers, robots, bicycle power, and hands-on activities with ZOOM, Design Squad, SCARCE, SciTech, and the DuPage Children's Museum. **Illinois Institute of Technology** students will present and answer questions on their sustainability-related professional projects. New for 2009, the "**Buildings to Shake-Rattle and Roll!**" exhibit and presentation will allow participants to build and test their own building designs to destruction. The popular cryogenics display returns again to amaze onlookers with sub-zero science and surprises!

Both events are located at Illinois Institute of Technology's Rice Campus in Wheaton. For more information, check out the **DuPage Area Engineers Week** [website](#).

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Clyde Baker to Receive 2009 Washington Award

At the **Chicagoland Engineering Awards Banquet** on **February 20th** at the **University Club of Chicago**, **Clyde N. Baker, Jr., PE, SE** will receive the **96th Washington Award**. With more than 50 years of engineering experience, Baker has earned an international reputation in the design, analysis and construction of deep foundations for high-rise structures. He has performed geotechnical engineering for seven of the 16 tallest buildings in the world and most of the high-rise buildings built in downtown Chicago over the past fifty years including nine with deep basements and slurry walls. To order tickets, visit the **Chicagoland Engineering Week** [website](#).



Clyde N. Baker, Jr.

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