



Chair's Corner

Apparently, everyone is not thinking about **BASEBALL**, so I am repeating my message from last month. The Chicago Section is offering a real bargain to attend a **Cougar's baseball game on June 26th**. This \$25 value is being offered to IEEE-Chicago Section members for only \$10 per ticket. Even if you are not a fan yourself, it is a great opportunity to meet your fellow members and their families for a fun evening. There are only a limited number of tickets available, so don't delay. Read the article for details.

It has been my pleasure to serve as your chair for the past year. My thanks to all of the officers and volunteers for their assistance in moving forward on the many initiatives that are proving to be beneficial to the Chicago Section membership. But, as they say, **"you ain't seen nothin' yet."** There is a new team in place that is committed to continuing the improvement of services and programs offered by the Chicago Section. See the election results below.

Regards,
John Zulaski

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Upcoming Events:

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Chicago Section Social Outing

Kane County Cougars Game



The [Kane County Cougars](#) baseball game social outing for IEEE members and their families is **Tuesday evening, June 26, 2007**. Come, join the fun. The picnic starts at 5 PM and the game will start at 6:30PM. Hamburgers, hotdogs, and pop will be provided. We will be in the left field bleachers. The cost of the event is \$10 per person. To order tickets, Chicago Section members are asked to write a check payable to the IEEE-Chicago Section and indicate Cougars and the number of tickets desired on the check. Mail



Real-Time & Embedded computing conference

June 12th
Hilton Lisle/Naperville
8:30 - 2:30
Software & Hardware Engineers
Free Technical Conference

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the check to the Chicago Section mailbox, 335 E. Geneva Road PMB # 389, Carol Stream, IL 60188. Tickets can be picked up at the ballpark on the day of the event.

More About Them.

Check the [Chicago Section Website](#) for the latest updates in meetings and other news.

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Illinois Engineering Council

Seeking Hall Of Fame Nominees

The IEC is also looking for inductees to the [Illinois Engineering Hall of Fame](#). IEEE Medal of Honor winner John Bardeen and IEEE fellow Henry Magnuski were among the first five engineers named to the newly established Hall of Fame last fall. The next elections to the Hall will take place this summer. **Nominations are due by August 10.** The IEC represents over twenty engineering societies, including IEEE, and serves as an advocate for education, registration and public safety. For a copy of the nominating form, please email [Jim Fancher](#).

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Nominating Committee

Connie Kelly, Chair

Chicago Section Elects New Executive Board

The Slate of Candidates put forth by the nominating committee for the Chicago Section 2007-2008 Executive Board was **unanimously elected** last month in the Section's first foray into email balloting. The new board is **Ron Kollman**, Section Chair; **Bernie Sander**, Section Vice Chair; **Bill Nartker**, Section Treasurer; **Jim Phillips**, Section Secretary; **Safoora Fatima**, Awards Chair; **Param Nair**, Conference Chair; **M. Imtiaz Ahmed**, Government Activities Chair; **Jack Sherman**, Membership Development; **John Zulaski**, Professional Activities Committees for Engineers (PACE); **Marcellin Diha**, Program; **George Thomas**, Publications; **Bill Nartker**, Special Events; and **Pat Hutson**, Student Activities. The new boards takes office on July 1, 2007.

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Chicago Section IEEE Fellows

New Fellow Honored At Awards Dinner

At the Chicago Section's annual awards dinner at the White Eagle Restaurant on May 22nd, **Alan V. Sahakian of Northwestern University** received congratulations and a warm round of applause for his elevation to fellow for contributions to electrophysiology of atrial cardiac arrhythmias. **Nominating Committee**



New IEEE Fellow Alan V. Sahakian is Professor in the Department of Electrical and Computer Engineering and in the Department of Biomedical Engineering at Northwestern University.

Chair Connie Kelly, who was the evening's Mistress of Ceremonies, also announced the Chicago Section election results and recapped the year's accomplishments, including two IEEE-endorsed projects that received Illinois Engineering Council (IEC) Outstanding Engineering Achievement Awards. Xiachouan Pan of the University of Chicago and John Estey of S&C

Electric were also bestowed the rank of Fellow, but were unable to attend the dinner.

Then, **Jim Sweitzer**, PhD, a volunteer with the [Climate Project](#), made the evening's featured presentation: "**Acting on the Truth: How you can Help Re-Set the Global Thermostat and Save the Planet!**"

Jim began by showing how scientists measure historical average temperatures by drilling glaciers and measuring the trapped air in ice cores. Average temperature and CO₂ levels are correlated and have been increasing.

Unlike other molecules, CO₂ has a long life span, staying in the atmosphere for 300 years after its been emitted. And, as the oceans warm up, their ability to absorb CO₂ diminishes. Hurricane intensity also grows as the oceans heat up. Global climate changes are the greatest on the North and South poles. As the polar ice cap melts, the ocean levels rise and ocean side cities will be threatened.

People in the United States produce, on average, 5.6 tons of carbon per year, while those in Europe produce only 2.4 tons and the world average is one ton. About a third of the carbon is used for heating and another third for transportation. Jim urged the audience members to reduce their "**carbon footprints**," in addition to getting educated on the topic and writing legislators.

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IEEE Region Four

EIT2007 Attracts Worldwide Attention

On May 17-20, **the Electro/Information Technology Conference, EIT2007**, which is an IEEE Region Four event, drew attendees from far beyond America's heartland. Researchers and industrial investigators from China, Taiwan, Malaysia, Korea, Algeria, Italy, Sweden, Germany, the United Kingdom and other countries shared results in basic and applied research in electrical and computer engineering. In addition to the industry exhibits, 107 papers were presented, 48 posters displayed, and two tutorials and two workshops were given. The event's main organizer **Thomas Wong of Illinois Institute of Technology (IIT)** said, "There was a good turn-out, enabling people to have engaging discussions and exchange ideas."



EIT2007 keynote speaker Lotfi A. Zadeh is a Professor Emeritus in Computer Science at the University of California at Berkeley.

IEEE Fellow Lotfi A. Zadeh's presentation, "Toward Human-Level Machine Intelligence," outlined the many obstacles to overcome in order to achieve the title of his talk. In particular, humans don't necessarily use hard decision rules: we don't make decisions on an exact number, 7.8 for example. According to Zadeh, it is currently possible to autopilot a car on a test track, but researchers will need to revolutionize how they are approaching the simulated thinking process before they will be able to autopilot a car in downtown Chicago. Wouldn't that be an amazing feat!

For half a day, the conference moved to the IIT McCormick Tribune Campus Center and Hermann Union Building where **Tom Walczak, Senior Director of the Mobile Devices Technology Office at Motorola**, spoke on “Convergence in the Mobile Device.” He foresees cell phones bundling even more functionality, including linking to satellites. As a specialist in antennas, he explained the challenges of integrating multiple antennas to capture multiple bandwidths into one compact device.

e-Scanfax cannot describe all the presentations, so please visit the [EIT2007 website](#). The conference returned to Chicago for this its eighth year and had nine corporate sponsors – an all time high. Don’t miss next year when Iowa State will host.

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EMC Mini-Symposium

From Basics To Experts In One Day



The popular EMC panel of experts were from left to right on the top row: moderator Frank Krozel, Dr. Brett Robinson, Tom Braxton, Roger Swanberg, and Ray Klouda, and bottom row: Bob Hofmann, Jerry Meyerhoff and Craig Fanning.

Held on May 15 at the Holiday Inn in Itasca, the 9th annual IEEE Electro-Magnetic Compatibility (EMC) Mini-Symposium had 94 guests, some of whom were first-time attendees. According to the event’s chair, Frank Krozel, the Mini-Symposium began as a way to give Chicago area IEEE members who couldn’t afford to be out of the office long enough to go to the week-long international symposium a taste of what it was like. This year, the one-day event featured 21 tabletops and four presentations, which ranged from Specification Changes to Transient Mitigation. Attendees left with new information on several specifications that have changed and that they need to address.

EMC Chapter President Jack Black admitted that, for those not in the business, “EMC is a big scary word.” So, the day began with a presentation by Tom Braxton of Shure, Inc. on the Fundamentals of EMC, which, according to Jack, “set a nice tone. The presentations got more technical as the day went along.” Vic Hudson of Rohde & Schwarz, for example, spoke on testing procedures for measuring whether products fall within the new legal guidelines in his talk titled “Improving the Accuracy of EMI Emissions Testing.”

At the end of the day, in a very popular session, a panel of experts took questions from the audience. “Essentially,” said Jack, “It was free EMC advice.” Since no one likes to air dirty laundry, the questions were posed anonymously. People wrote their questions about whether to add another ground to a malfunctioning circuit board, for example, on cards that were then given to the moderator.

Get your questions ready because plans are already underway for next year’s mini-symposium. For more information, visit the [website](#) of the Chicago IEEE EMC Chapter.

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