

THE REPORTER

Journal of the Central Indiana Section • The Institute of Electrical and Electronics Engineers, Inc.



"Super size" your IEEE Membership SENIOR MEMBER RODEO Upgrade to Senior Member Status

Do you have 10 years of professional experience? Are you just a little bit proud of your accomplishments? Then why not become a Senior Member of the IEEE? The Central Indiana Section of the IEEE will help you get this done. Just come and attend our annual Senior Member Round-Up planned for early June. We will match you up with volunteer Senior and Fellow members to provide the required references. Complete upgrade information, including requirements can be found at [IEEE Senior Member Program](#)

Why would you want to be come a senior member? There are several benefits:

- Professional recognition from your peers for technical and professional excellence.
- An attractive wood and bronze engraved Senior Member plaque to proudly display.
- Up to \$25.00 gift certificate toward one new Society membership.
- A letter of commendation to your employer on the achievement of Senior member grade (upon the request of the newly elected Senior Member.)
- Announcement of elevation in Section newsletters, newspapers and notices.
- Eligibility to hold executive IEEE volunteer positions.
- Can serve as Reference for Senior Member applicants.
- Invited to be on the panel to review Senior Member applications.

All elevated Senior Members will receive a beautiful plaque from IEEE and notification to your employer upon request. It's a great way to recognize your achievements and you deserve it! Please join us for this summer's Senior Member Round-Up.

Important items you will need: (Electronic format required): IEEE member number, degrees, schools and dates, current position, company and title, list of professional experience, list of achievements demonstrating significant performance, copy of a recent resume (to be attached to the application). Plan to join us and UPGRADE YOUR MEMBERSHIP. For more information, contact [Will Kassebaum](#) at Will.Kassebaum@IEEE.org or check the cis-ieee.org.

Upcoming Events

- | | |
|------------|--|
| May 7 - 13 | 2006 Intel International Science and Engineering Fair
Public visitation Thursday May 11 (9am-9 pm) and Friday May 12 (9am-noon) |
| May 8 | ScienTech Club, Michael Sarasin, Ricoh Philosophy of Sustainability of the Planet |
| May 9 | Indiana Biomedical Entrepreneur Network Networking 101 at IUPUI |
| May 12-14 | IEEE Swarm Intelligence Symposium 2006 , Hilton Indianapolis Hotel |
| May 15 | ASM meeting, Barbara Stratton - Rolls- Royce AE 3007 Turbofan Engine:
Reliable Power for the Global Hawk UAV and EMB 145 Special Versions |
| May 17 | IUPUI 2006 Solutions Conference |
| May 19 | Techpoint Mira Awards Gala , Indiana Roof Ballroom |



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Rose-Hulman Institute of Technology Student Branch	CIS-IEEE representative Ed Wheeler
Purdue University Student Branch	CIS-IEEE representative Open Position

Editorial Policies

Each issue of The Reporter references three months - the month in which it is published and the following two months. The Reporter is not published in June, July, and August because there are generally fewer meetings held during the summer months.

Material to be included should be submitted mid-month prior to the month it is to be published. For example, material intended for the September issue should be submitted to the Editor by August 15. The Editor will send a reminder to all IEEE Central Indiana Section entities by the 15th of the month to submit their monthly updates. If no update is received for that month, only the mission statement and contact information will be published for that entity.

Copy should be submitted electronically. Photographs are most desirable and may be submitted in electronic format or color, black-and-white glossy, or Polaroid. Please note that black-and-white photographs reproduce best. Advertisements are welcome. Contact the editors for layout sizes and rates.

IEEE Region 4 – Expanding Teacher In-Service Program Participation

As an engineer, are you interested in working with your local pre-university schools, school districts or teachers? Do you want to help improve the level of technological literacy of teachers and their students in your community? Then you should attend IEEE's upcoming Teacher In-Service Program (TISP) Training Workshop in Indianapolis on 16 - 17 June!

Started in 2001, TISP features IEEE volunteers developing and presenting technologically oriented subject matter to educators in a professional development (or "in-service") setting. In the last four years, IEEE volunteers have made more than 35 presentations to over 675 pre-university educators within the United States and South Africa – these educators reach more than 70,000 students.

Now you can be a TISP champion! The IEEE Educational Activities Department and the Central Indiana IEEE Section are hosting a TISP Training Workshop for Region 4 volunteers on 16-17 June at University Place Conference Center and Hotel in Indianapolis, IN.

The workshop will cover how to organize volunteers for TISP and how to bring the program to your local school districts. Thanks to the support of IEEE USA the event is free for all IEEE members. There will be a \$75 fee for non-IEEE members. IEEE will reimburse members for any training-related travel costs incurred. Funding is also available to cover the cost for supplies and materials needed for presentations to educators.

To register for the workshop visit <http://www.ieee.org/web/education/preuniversity/tispindy.html>.



The event will begin on Friday 16 June at 4:30pm with a 2-hour presentation followed by dinner at 7:00pm.

On Saturday 17 June the event will run from 9:00am to 3:00pm and will include hands-on presentations, a question and answer period, and discussion on numerous topics, such as: program background and scope, getting started, potential costs to sections and educators, suggestions on making contact with your local pre-university community, and the alignment of an activity with education standards. Breakfast and Lunch will be provided for attendees.

The goal of the training session is to impact at least 1000 pre-university educators in Region 4 through this program and to help IEEE volunteers implement TISP in their local pre-university education communities.

During an actual Teacher In-Service Presentation, IEEE volunteers provide teachers with activity materials and then help the teachers as they work their way through the activity. By helping the teachers as they work their way through a technical activity, the teachers get to the point where they feel comfortable enough to present it on their own. The idea is for the teachers to return to their schools and lead the same activity in their classrooms.

For more information on the upcoming TISP training session or TISP participation, please contact: Doug Gorham, Director of Educational Outreach, +1 732 562 5483, d.g.gorham@ieee.org, or Allison Ickowicz, Associate Project Coordinator, +1 732 562 5496, a.m.ickowicz@ieee.org.

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- IEC/EN 61000-4-8 Magnetic
- IEC/EN 61000-4-11 Voltage Dips/Variations
- IEC/EN 61000-3-2 Harmonics
- IEC/EN 61000-3-3 Flicker
- IEC/EN 55011
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Past meeting

IEEE Invited Seminar Series - March 2006

In conjunction with the IUPUI School of Informatics Spring Semester Course

I590 Discovery Informatics in Biomedical Sciences

Dr. Chen Su, Principle Research Scientist, Eli Lilly and Company

"Regulation of Gene Transcription in Pharmaceutical Research

Knowledge Database and Computational Prediction"

Dr. Chen Su reviewed some of the curated TFBS databases, and computational tools developed at Lilly to identify de novo TFBS from gene expression profiling microarray data. She also showcased some of the utilities of such knowledge database and predictive tools in pharmaceutical research that are of interest to molecular biologists.

Past meeting

Engineering Medicine Biology Society

Bioinformatics Applications in Biomarker Discovery,

Dr. Birong Liao Principle Research Scientist, Eli Lilly and Company

Dr. Birong Liao presented a few examples how bioinformatics approach is being used in biomarker discovery will be shown. He used public gene expression repositories to demonstrate that exploitation of the rich biological data requires extensive knowledge about the underlying technologies, and biological experiments.

Past Meetings

PES-IAS Spring Course - Smart Control, Relays and Meters

The PES-IAS had its Spring 2006 Short Course on Smart Control, Relays and Meters at Indianapolis Power & Light. The following topics were covered.

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|----------|---|
| March 14 | Smart Relaying, Mr. James R. Buff, P. E., Field Application Engineer for SEL |
| March 21 | Voltage Regulation with Capacitors, John Harder, Retired, ABB |
| March 28 | Recloser Applications and Control, Minimizing blinks, strategies to reduce Customer outage minutes, Automation Schemes, Don Wareham, Regional Power Systems Engineer for Cooper Power Systems |
| April 11 | Annual Awards Banquet at Indianapolis Power & Light Company |

Past Event

National Engineers' Children's Day

The Children's Museum of Indianapolis

On Saturday Feb. 18, the Central Indiana Section of the IEEE celebrated National Engineers Week with a special event at the Children's Museum. The event generated interest in engineering among children who had the opportunity to learn about a wide variety of jobs in the engineering field through hands-on experiences throughout the museum. Fun, engineering-related activities included building a simple flashlight, studying blueprints, building structures from playing cards and demonstrating flight/distance at a number of stations throughout the museum. Children that completed all of the activities were entered into a drawing. Awards were handed out late on Saturday afternoon. Thanks to Bob Evanich who organized the event and more than 20 volunteers.

The Chairs' Corner

Friday, May 5, 2006

John A. Kassebaum, Chair



Dear CIS-IEEE Colleagues,

It is my unhappy duty to inform you that I am reluctantly about to resign as your Chair. In explanation, some of you may be aware that my PhD program is nearing its completion. A result of this is that my PhD Advisory Committee has unanimously demanded that I step aside from my voluntary IEEE roles in order to focus on the remainder of my PhD program - which I should complete in about a year. I hope to return to some form of service after that time - when my program is completed.

My service to you ends far too soon - sooner than I expected - but I believe I have put in place most of the initiatives necessary to smoothly complete the year. This includes plans for our Senior Member Rodeo in June, our baseball game activity in August, and our fall awards banquet in November. The executive committee is large and enthusiastic, so I think my early demise will not significantly affect the rest of the year's IEEE activities. Regardless of my departure, I will remain accessible to the new leadership team to make sure that there is continuity and that the institutional memory I hold is not lost. I am more worried that the loss of my service in my secondary role, as Co-Chair of the Central Indiana Engineering Consultants' Network (CIECN), will cause a reduction in useful activities and services. If the CIECN is of interest to you, I therefore call on you to volunteer at a re-organization meeting of the CIECN on the first Thursday of June.

By the end of May, I will be replaced as CIS-IEEE Chair by Will Kassebaum, who is the current section Vice-Chair and also a Co-Chair of the CIECN. Of course, the post of Vice-Chair will be vacant when he steps up to Chair. Will will need your help and support both in the executive committee and in the CIECN. If you are willing to help or serve in the section leadership, I invite you to consult with Will and the executive committee.

In Service,

John A. Kassebaum, P.E., Ph.D. Candidate

Chair and Senior Member, Central Indiana Section of the IEEE

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Central Indiana Engineering Consultants' Network (CIECN)

Co- Chairmen: John Kassebaum and William Kassebaum

CIECN Past Meetings

May 4th, Larry Grogan, Grogan Advisory Services, IEEE Financial Advantage
Larry Grogan talked about effectively use current tax laws to your advantage and avoid those that will hurt you. He discussed how professional financial planning will help you to put your retirement goals on track and guide you to the dreams you have for you and your family.

April 6th 2006 Ron Reiss, Director of Member Services, Techpoint
Ron Reiss talked to CIECN members about Techpoint, who Techpoint is; what Techpoint does; and the benefits of membership in Techpoint

March 2nd 2006 Paul Bhe, Certified Financial Planner, Fidelity Personal Investments
Paul Bhe talked to CIECN about retirement plans for small businesses and consultants, including the Solo-401(k), SEP IRA's, and Keogh plans.

Central Indiana Engineering Web Links

ACEC	American Council of Engineering Companies, Indiana	acecindiana.org
ASCE	American Society of Civil Engineers	sections.asce.org/indiana
ASME	American Society of Mechanical Engineers	http://sections.asme.org/central_indiana/
ASM-INDY	American Society for Metals - Indianapolis	asm-indy.org
CINLUG	Central Indiana Linux Users Group	cinlug.org
IBEN	Indiana Biomedical Entrepreneur Network	indianabionetwork.org
IHIF	Indiana Health Industry Forum	ihif.org
INDSPE	Indiana Society of Professional Engineers	indspe.org
INDYASHRAE	American Society of Heating and Air conditioning Engineers	indyashrae.org
NSBE-IAE	National Society of Black Engineers - Indianapolis Alumni Extension	nsbe-iae.org
PIMCIC	Project Management Institute - Central Indiana Chapter	pmicic.org
SAE	Society of Automotive Engineers, Indianapolis	http://www.saesections.org/indiana/
Sciencetech	Sciencetech Club in Indianapolis,	sciencetechclub.org
SIM	Indianapolis Chapter of Society for Information Management (SIM)	SimNet.org
SWE-CI	Society of Women Engineers - Central Indiana Section	swe-ci.com
Techpoint	A diverse collection of technology-based Indiana industries.	Techpoint.org

Central Indiana IEEE Related Web Links

CIECN	Central Indiana Engineering Consultants Network	Indy-engineer.net
Student Sections	Rose Hulman Institute of Technology	http://www.rose-hulman.edu/Users/groups/IEEE/
	Purdue University, West Lafayette	purdueieee.org
	Indiana University/Purdue University at Indianapolis	iupuieee.org

2006 *Meeting Calendar*

Date	Host	Subject	Location
May 7-13	Intel	Intel International Science and Engineering Fair	Indianapolis, IN
May 8 11:30am	ScienTech Club	Michael Sarasin, Ricoh Philosophy of Sustainability of the Planet, 11:30 am with a buffet luncheon (\$9.00)	Children's Museum
May 9, Tuesday 5 - 7:30pm	IBEN	Indiana Biomedical Entrepreneur Network Networking 101	IUPUI
May 12-14	IEEE	IEEE Swarm Intelligence Symposium 2006	Hilton Indianapolis Hotel
May 15 5pm	ASM	Barbara Stratton - The Rolls- Royce AE 3007 Turbofan Engine: Reliable Power for the Global Hawk UAV and EMB 145 Special Versions.	St. Vincent Marten House, 1801 W 86th, Indianapolis,
May 17 8am-4pm	IUPUI	IUPUI 2006 Solutions Conference	IUPUI
May 19 6 pm - 10 pm	Techpoint	Mira Awards Gala	Indiana Roof Ballroom
June 12-15	IUPUI	TeraGrid '06 - is a forum for those interested in building and using cyber infrastructure.	University Place IUPUI
June 14-15	ITEC	Information and Technology Exhibit and Conference	Indianapolis Conference Center
June 16	IHIF	Indiana Health Innovention 2006	Indianapolis Convention Ctr
July 10-14	ASM	Welding Workshop - Specific hands-on topics and laboratory welding experiences (\$300.00)	Ball State Univ.
Aug 20	IEEE	Annual CIS-IEEE Victory Field Baseball Outing	Indianapolis, IN
Sept 19-21	PCISHOW.com	Powder Coating 2006	Convention Ctr
Oct 6	PMICIC	4th Annual Professional Development Day and Vendor Fair, PMI Central Indiana Chapter, (\$99 - \$149)	UAW/Rolls Royce training center
Sept. 23	PMICIC	Joseph Philips The Project: Life, A Presentation for International Project Management Day, (8 PDU)	
Oct 12-13	IQAA	Indianapolis Quality Assurance Association Quality Enrichment Conference	Indianapolis, IN
Nov t.b.d.	CIS-IEEE	CIS-IEEE Annual Award Banquet	Carmel, IN
Nov 16	Ball State	Vision 2006 Tech Summit	Muncie, IN

2007 *Meeting Calendar*

June 3 - 7	ASMS	55th ASMS Conference on Mass Spectrometry	Indianapolis, IN
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 Check the [Section web page](#) for current information. .

Distribution: The Reporter is distributed to approximately 1900 IEEE members within the Central Indiana Section including student members and faculty of Purdue, IUPUI, Rose-Hulman and ITT Technical Institute. The Reporter may be selectively distributed to non-members when it serves the aims of the Section. Examples include public, industrial, and school libraries, and other engineering societies and professional organizations. Inquiries for complimentary subscriptions should be made to the Editor.