

# THE REPORTER

Journal of the Central-Indiana Section • IEEE

## CIS-IEEE Celebrates with Another Day at the Ball Park

by Karl Huehne, Newsletter Editor

For the last few years, CIS-IEEE has celebrated with its membership, a day at Victory Field in Indianapolis. This year a suite level area was reserved and seventy or so members and their families turned out to watch the Indianapolis Indians take on the Syracuse Chiefs on Sunday, August 15.

Here are some pictures from the event provided by Will Kassebaum









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## CIS-IEEE Pre-University Education Activities

by Brad Snodgrass

Teacher Grants - New grant just went to a 4th grade teacher in Lafayette to run the "Build a Better Candy Bag" lesson

TISP - Working with UIndy to schedule a TISP presentation to education students in their methods class.

TISP - Brad has been interacting with student groups in Michigan and India (Same group. believe it or not!!) regarding establishment of TISP in those locations.

TISP - Brad was notified that his "Voltage Divider" lesson plan has been accepted for publication by the PECC. (Pre-University Education Coordinating Committee)

CIECN - Have received two requests via LinkedIn from business owners looking for experienced engineers. One job posted on LinkedIn. Others getting connected. Good proof that the Indy market is starting to pick up and that CIECN is getting noticed on LinkedIn.

## IEEE Computer Society Short Course on Particle Swarm Optimization

by Matthew Etchison

The Computer Society will be offering a short course on Particle Swarm Optimization (PSO) on Thursday, October 14th, 2010 at 6:00 pm at Purdue office at Intech Park. The location is at Intech Park Building 10, 6640 Intech Blvd, Suite 120.

Mr. Travis Silvers is an IEEE member and Enterprise Web Architect who will be discussing various aspects of PSO from algorithms to benchmarks. The course is anticipated to run 1 - 2 hours and should be very informative.

For more information, feel free to contact CIS-IEEE Computer Society chair, Matthew Etchison at 317 715-8598 or email at: [matthew.etchison@inin.com](mailto:matthew.etchison@inin.com)

### *How Do You Communicate??*

Want to know what is happening in Central Indiana Section? Don't know where to look? Already inundated with E-Notices? Need to ask a question? Want to find an expert? Get a meeting idea?

Here are some of many communication channels available in Central Indiana Section



Find the Central Indiana Engineering Consultants' Network and the Central Indiana Section Communications Society, as well as several other IEEE related organizations on LinkedIn.



Student Branch members are encouraged to join "CIS-IEEE Student Branches" group on Facebook. Several opportunities for students and student branches have been posted there. The Facebook group also provides an opportunity for CIS student members to interact or to make contact with student members outside of Central Indiana. There is no substitute for a good network, but be aware that some hiring managers are also checking these sites.

Communications Society members can find "COMSOC – Central Indiana Section" on Facebook.

### CIS Home Pages

Start with the main site. ([www.cis-ieee.org](http://www.cis-ieee.org)) Check out the calendar of events, or link to the many IEEE groups in Central Indiana Section, including all of the Student Branches.

### E-Notices

Not getting E-Notices? E-Notices are not only a resource for keeping in touch with the activities throughout CIS, but you will also receive information on topics of interest throughout IEEE

Login to myIEEE from the IEEE Home Page ([www.ieee.org](http://www.ieee.org)) and sign-up! with the main site. ([www.cis-ieee.org](http://www.cis-ieee.org)) Check out the calendar of events,

## **Central Indiana Section Announces K-12 Educational Outreach Mailing List**

Want to keep abreast of all the educational activities in Central Indiana? Need help with or an idea for a project? Want to share ideas with educators, administrators, and engineers? You need to join the CIS K-12 Outreach Mailing List.

You need not be an IEEE member to join the list. In fact, we would like to have as many educators and administrators as possible on the list.

The only requirement is an interest in improving technological literacy in Central Indiana.

To Join, send an email message to [LISTSERV@LISTSERV.IEEE.ORG](mailto:LISTSERV@LISTSERV.IEEE.ORG) with the following in the **body** of the message SUBSCRIBE CIS-K12-OUTREACH <full name>. (Example: SUBSCRIBE CIS-K12-OUTREACH Brad Snodgrass) Your email needs to originate from the email address at which you wish to receive messages.

For more information, you can contact Brad Snodgrass at [bsnodgrass@ieee.org](mailto:bsnodgrass@ieee.org).

See you there.

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### **New Vice-Chair of CIS-IEEE**

CIS is pleased to announce that Yuetong Lin has agreed to fill the office of vice-chair of CIS-IEEE for the remainder of 2010.

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## **CIS-IEEE Continues Teacher Grants for 2010**

### **Teachers Reimbursed for up to \$100 of Classroom Expenses**

The Central Indiana Section of the IEEE (pronounced Eye-triple-E) is encouraging area teachers to utilize the large selection of free lesson plans available at [TryEngineering.org](http://www.tryengineering.org). Lessons focus on Science, Technology, Engineering, and Math and are designed for classroom presentation for under \$100.

#### Eligibility

- School must be located within the CIS-IEEE geographical area
- A lesson from [www.tryengineering.org](http://www.tryengineering.org) must be chosen
- The lesson must be presented by the classroom teacher. (Not by an IEEE Volunteer)

Teachers may determine geographic eligibility by reviewing Article I, Section 2 of the CIS Bylaws at:

<http://www.cis-ieee.org/bylaws.asp>

#### Applying for a Grant

Central Indiana Section (CIS) will reimburse costs for presentation of an eligible lesson up to the \$100 limit. Teachers should first get a pre-approval for the reimbursement by supplying the information requested below. Pre-approved

lessons will be given an address for submittal of related lesson expenses, up to the \$100 limit.

To apply, send an email with the following information to Brad Snodgrass at [bsnodgrass@ieee.org](mailto:bsnodgrass@ieee.org)

- Name and address of the School
- Teacher sponsoring the lesson
- Grade level(s) targeted for the lesson
- Name of person who will be presenting the lesson
- Date lesson will be presented
- Name of the lesson that will be presented.

### **Questions**

Send questions or requests to Brad Snodgrass at [bsnodgrass@ieee.org](mailto:bsnodgrass@ieee.org). Brad coordinates Pre-University Activities for the Central Indiana Section of IEEE.

### **About the IEEE**

The IEEE is the world's leading professional association for the advancement of technology. With more than 350,000 members worldwide, IEEE is the largest technical society in the world. The IEEE is a leading authority on a broad range of topics including aerospace systems, computers, telecommunications, robotics, nanotechnology, biomedical engineering, electric power, consumer electronics, and many others.

Central Indiana Section (CIS) of the IEEE is the local organization supporting the nearly 2000 IEEE members in central Indiana.

### **About the Teacher In-Service Program**

The Teacher In-Service Program (TISP) features IEEE Section volunteers developing and presenting technologically oriented subject matter to local K-12 educators in an in-service or professional development setting. TISP allows IEEE volunteers to share their technical expertise and to demonstrate the application of engineering concepts to support the teaching and learning of science, mathematics and technology disciplines.

To schedule a TISP Presentation for your school, contact Brad Snodgrass at [bsnodgrass@ieee.org](mailto:bsnodgrass@ieee.org).

### **IEEE Resources for Students and Teachers**

<http://www.cis-ieee.org/>

<http://www.ieee.org/web/aboutus/home/index.html>

<http://www.ieee.org/web/education/home/index.html>

<http://www.ieee.org/web/education/preuniversity/tispt/index.html>

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## **LabVIEW User Group Meeting**

Thursday Oct. 7, 2010 6 - 8 pm

Indiana University-Purdue University Indianapolis  
IUPUI University Library – UL 2115G Meeting Room  
755 West Michigan Street, Indianapolis, IN 46202

The meeting will discuss the new features in Labview 2010  
and other presentations at the recent NI-Week.

<http://sine.ni.com/nievents/app/offering/p/offeringId/597782/site/nic/country/us/lang/en>

In response to popular request  
**New 3-Day Format**

*Keeping the same important concepts and material  
presented in a more condensed format*



## EMC by Your Design

An EMC Practical Applications Seminar and Workshop  
with a free 45 min. individual product design evaluation on Oct. 29,  
take home proprietary computer program,  
expanded chapter on filter design, signal integrity,  
signal return currents on PCB's  
and a second textbook at no extra charge

Tues. Oct. 26 - Thurs. Oct. 28, 2010  
Hilton Hotel, Northbrook, IL



**We are offering a special  
\$300 discount if you register by October 5, 2010**

## **Classes fill quickly so register early**

email [cgorowski@dlsemc.com](mailto:cgorowski@dlsemc.com) or call 847-537-6400  
[www.dlsemc.com/1001](http://www.dlsemc.com/1001)

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## ELECTION OF CIS OFFICERS

The open period for nominating a member to run for a section office is rapidly closing. This period will end on October 1, 2010. After that date, all nominations will need 25 signatures from current Central Indiana Section Members to have their name put on the ballot.

**Anyone can be nominated for any position** except director, the one exception. The person nominated for Director must have been Chairman of the Central Indiana Section prior to 2010.

Each year the CIS-IEEE nominates and elects officers from the section membership. Any CIS-IEEE member can be a candidate for office. Per the bylaws of the section, all members must be notified, via e-mail, that they have an opportunity to run for office.

Serving as a CIS-IEEE officer provides the following advantages:

- An opportunity to serve the section and to help direct its activities
- An opportunity to work more closely with colleagues in the section, and in the regional and the national IEEE organizations
- An opportunity for professional advancement through broader industry participation
- An opportunity for free pizza and soda at Executive Committee meetings

The CIS-IEEE elects officers for a one year term (except directors, who serve for two years). The Nominating Committee will nominate officers for 2010. Any member can nominate another member up to the deadline for any position:

- **Director (1 of 2 is elected in 2009; the other will be elected in 2010)**
- **Chair**
- **Vice Chair**
- **Secretary**
- **Treasurer**

Candidates are welcome for each office. Nominations will be accepted up to October 1, 2010.

The schedule is as follows:

*Announcement of Nominations* Oct. 1  
*Close Nominations by Petition* Oct. 28  
*Hold Election* Nov. 15  
*Terms of office commence:* Jan. 1

After October 1, all new candidates must collect 25 signatures (with member ID#) from members of the CIS-IEEE to qualify (see bylaw Article IV for details at <http://www.cis-ieee.org/bylaws.asp>). To be placed on the ballot, please forward the nominee's name, position, and list of signatures to the Nominating Committee:

No petitions will be accepted after October 28<sup>th</sup>. If there are no contested offices, then the Executive Committee will approve the slate of candidates by acclamation.

For more information and to see how the Executive Committee works, attend the October 20<sup>th</sup> meeting via internet and phone bridge. We usually meet on the 3<sup>rd</sup> Wednesday of every month. Often the meeting is also in person on the IUPUI campus, ET Building, 799 W. Michigan St., Room 201S. Everyone is welcome.



# **VOLUNTEER OPPORTUNITIES**

The Central Indiana Section still needs help in a few areas. This is your opportunity to give back to an organization that has helped you in your career and a chance to network with your peers and gain recognition. The following positions are currently open:

- Fund Raising Chair
- Communications Society Chair
- Communications and Information Officer
- PACE Chair

Becoming an IEEE volunteer can be a gratifying and memorable experience. Whether your skills are suited for organizing conferences and meetings, fund raising, financial reporting, communicating or maintaining web sites, CIS can use your skills.


Additional opportunities for involvement include awards, educational activities and the development of new programs.

As an IEEE volunteer, you can take pride in participating in activities that interest you, while expanding your knowledge of the IEEE, gaining valuable management and leadership skills, and connecting with others in your profession.

If you are interested in serving in any of the above listed positions please contact any of the CIS officers listed near the end of this newsletter.

## ***2010 Meeting Calendar***

<b>Date</b>	<b>Host</b>	<b>Subject</b>	<b>Location</b>
Thursday, October 7, 6:00 pm	IUPUI	<b>LabVIEW User Group Meeting</b>	IUPUI - Library
Thursday, October 14, 6:00 pm	Computer Society	<b>Short Course on Particle Swarm Optimization</b>	Intech Park Indianapolis
Wednesday, October 20, 6:00 pm	CIS	<b>Executive Committee Meeting</b>	IUPUI - ET201S
Wednesday, October 27	Electric League of Indiana	<b>Annual Exposition</b>	State Fairgrounds, Indianapolis

... Check the [Section web page](#) for details and current information. .

**Central Indiana Section Active Volunteers**

**Director/CIECN** (317) 225-4126  
Will Kassebaum Will.Kassebaum@ieee.org

**Director** (317) 706-9125  
Steve Shen sshen@itt-tech.edu

**Chair** (812) 817-8622  
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**Vice Chair** (812) 237-3399  
Yuetong Lin [lin.yuetong@gmail.com](mailto:lin.yuetong@gmail.com)

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**Secretary** (317) 985-5360  
Karl Huehne khuehne@ieee.org

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Industry Applications Societies** (317) 726-1236  
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**Computer Society** (317) 715-8598  
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**Signal Processing Society** (765) 496-6797  
David Love [djlove@ecn.purdue.edu](mailto:djlove@ecn.purdue.edu)

**Engineering in Medicine and Biology Society**  
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**Central Indiana Engineering Consultants' Network**  
Will Kassebaum (317) 225-4126  
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**Membership Development** (317) 726-1236  
Earl Hill eshill@loma-consulting.com

**Professional Activities**  
OPEN

**Newsletter Editor** (317) 985-5360  
Karl Huehne khuehne@ieee.org

**Communications Information Officer**  
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**Central Indiana Section Active Volunteers (cont'd)**

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**GOLD Coordinator** (765) 350-0113  
Arun Kumar kumar16@gmail.com

**Communications Society**  
Vacant

**Constitution and Bylaws** (317) 985-5360  
Karl Huehne khuehne@ieee.org

**Historian** (317) 845-5050  
Marvin Needler mnprn@juno.com

**Pre-University/Student Affairs** (317) 679-6194  
Brad Snodgrass bsnodgrass@ieee.org

**IUPUI Student Branch** [ieee@iupui.edu](mailto:ieee@iupui.edu)

**ITT Tech Student Branch CIS-IEEE  
Representative**  
Mohammed Boudaia [MBoudaia@itt-tech.edu](mailto:MBoudaia@itt-tech.edu)

**Rose - Hulman Institute of Technology Student  
Branch – Faculty Advisor**  
Robert Throne throne@rose-hulman.edu

**Purdue University Student Branch**  
Tom Talavage tmt@purdue.edu

**Editorial Policies**

Each issue of The Reporter typically references three months - the month in which it is published and the following two months. The Reporter is typically published in March, June, September, and December.

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 updates.

Copy should be submitted electronically. Photographs are desirable. Advertisements are welcome. Contact the editor for layout sizes and rates.

## Central Indiana Engineering Web Links

ACEC	<a href="http://www.acecindiana.org">American Council of Engineering Companies, Indiana</a>	acecindiana.org
ASCE	<a href="http://sections.asce.org/indiana">American Society of Civil Engineers</a>	sections.asce.org/indiana
ASME	<a href="http://sections.asme.org/central_indiana/">American Society of Mechanical Engineers</a>	http://sections.asme.org/central_indiana/
ASM-INDY	<a href="http://asm-indy.org">American Society for Metals - Indianapolis</a>	asm-indy.org
CIECN	<a href="http://indy-engineer.net">Central Indiana Engineering Consultants' Network</a>	Indy-Engineer.net
CINLUG	<a href="http://cinlug.org">Central Indiana Linux Users Group</a>	cinlug.org
IBEN	<a href="http://indianabionetwork.org">Indiana Biomedical Entrepreneur Network</a>	indianabionetwork.org
ICES	<a href="http://in-ces.org">Indiana Council of Engineering Societies</a>	in-ces.org
IHIF	<a href="http://ihif.org">Indiana Health Industry Forum</a>	ihif.org
INCOSE	<a href="http://www.incose.org">International Council on Systems Engineering</a>	www.incose.org
INDSPE	<a href="http://indspe.org">Indiana Society of Professional Engineers</a>	indspe.org
INDYASHRAE	<a href="http://indyashrae.org">American Society of Heating, Refrigeration, and Air Conditioning Engineers</a>	indyashrae.org
NSBE-IAE	<a href="http://nsbe-iae.org">National Society of Black Engineers - Indianapolis Alumni Extension</a>	nsbe-iae.org
PIMCIC	<a href="http://pmicic.org">Project Management Institute - Central Indiana Chapter</a>	pmicic.org
SAE	<a href="http://www.saesections.org/indiana/">Society of Automotive Engineers, Indianapolis</a>	http://www.saesections.org/indiana/
Scientechn	<a href="http://scientechnclub.org">Scientechn Club in Indianapolis</a>	scientechnclub.org
SIM	<a href="http://simnet.org">Indianapolis Chapter of Society for Information Management (SIM)</a>	SimNet.org
SWE-CI	<a href="http://swe-ci.com">Society of Women Engineers - Central Indiana Section</a>	swe-ci.com
Techpoint	<a href="http://techpoint.org">A diverse collection of technology-based Indiana industries.</a>	Techpoint.org

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Distribution: The Reporter is made available electronically to the approximately 1800 IEEE members within the Central Indiana Section including student members and faculty of Purdue, IUPUI, Rose-Hulman Institute of Technology and ITT Technical Institute.