

# THE REPORTER

Journal of the Central-Indiana Section • IEEE

## CIS-IEEE Announces New Members of the Executive Committee

PACE Chair    Yaoyu Wang    317 249-5247    [yaoyuwang@yahoo.com](mailto:yaoyuwang@yahoo.com)

Finance Chair    Herschel Workman    812 322-4651    [herschel.workman@parttec.com](mailto:herschel.workman@parttec.com)

GOLD Chair    Diana Vasquez    765 350-0113    [dcvasque@ieee.org](mailto:dcvasque@ieee.org)

The CIS-IEEE welcomes any and all members who wish to serve the membership by becoming section executive committee members. If you are interested in participating, please contact Earl Hill at [eshill@loma-consulting.com](mailto:eshill@loma-consulting.com) or 317-726-1236 for more information.

Open positions include:

- Chair, Communications Society
- Chair, Fund Raising
- Chair, Constitution and Bylaws

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## PES-IAS 2011 Spring News

The CIS-IEEE Power & Energy / Industry Applications Societies have gotten the year off to a good start. Our first presentation was held on January 11. The speaker was Mr. Glen Bertini, CEO of Novinium, a distribution cable technology company from Seattle, Washington. Mr. Bertini's topic was "Solutions to Aging Underground Cable". Mr. Bertini is a well-known expert on cable degradation and on chemical-based means to correct and even reverse degradation. Every utility in the country is facing cable degradation problems, and this lecture discussed the problems faced by utilities and possible solutions. Mr. Bertini was very well spoken and well prepared. Twenty-nine members attended, despite some severe weather conditions. The meeting was held at the Safety Room, Indianapolis Power & Light, 1230 Morris St. Indianapolis, IN. This year the PES-IAS has decided to start its meetings a little earlier to allow time for networking.

The second meeting of the year was held on February 22 (after being postponed from February 8) at IP&L. The speaker was Dr. Maryam Saeedifard, Assistant Professor at Purdue. Her topic was "High Voltage Direct Current Transmission". HVDC lines are becoming more and more common through the world, and have been proposed in a number of locations for transporting renewable energy from remote locations (offshore, High Plains) to load centers. The best known HVDC line in the US is the Pacific DC Intertie, which runs from Portland to Los Angeles. Dr. Saeedifard's talk was also well presented. Twenty-two members attended.

Please note that this meeting had to be postponed for reasons beyond the Societies' control. Kindly routinely monitor the [www.cis-ieee.org](http://www.cis-ieee.org) website for the latest in meeting scheduling. The Societies' will make every effort to contact members when meetings are rescheduled, but since most such occasions occur with relatively little notice, it is difficult to contact all members.

Future meetings include the following (all at Indianapolis Power & Light):

March 8, 2011 >> March 29, 2011

Spring Short Course - "Power Quality"

Dr. Mark Halpin, Auburn University (IAS Distinguished Lecturer)

Mr. Larry Conrad, Duke Energy (emeritus)

April 19, 2011

Student Awards Banquet

May 10, 2011

Advances in Transformer Diagnostics

Mr. Charles Sweetser, Omicron

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## NEW SENIOR MEMBER IN CIS-IEEE

Please congratulate **Zhaomin Li** who was recently elevated to Senior Member status.

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### ADVERTISEMENT

#### Electrical and Computer Engineering Technology Purdue College of Technology Kokomo

#### Purdue University

Posting #002445-2011 Purdue University – Clinical Assistant Professor

The Electrical and Computer Engineering Technology (ECET) Department at the Purdue College of Technology, Kokomo, Indiana is accepting applications for a Clinical Faculty member to teach courses at the Kokomo campus. These positions are 10-month renewable academic appointments with the successful candidate teaching a variety of courses in the Electrical Engineering Technology baccalaureate degree program. The department's mission is primarily teaching, educational scholarship through applied research, and industry/professional/ community engagement.

**Responsibilities:** Candidates for Statewide Technology positions should be able to teach in two or more of the following areas of specialization: analog and digital electronics, controls, embedded microprocessors, and communication electronics. For more information visit <http://www.tech.purdue.edu/ECET/About-Us/ecetpositions.cfm>

**Qualifications:** All candidates should have an earned Masters Degree or Ph.D. in electrical engineering, electrical engineering technology, or a related field. A minimum of three years of full time US industrial experience is necessary, and effective communication skills must be demonstrated. Professional registration and prior teaching experience are preferred.

**Application Procedure:** Review of applications will begin on March 21, 2011 and continue until positions are filled. Applicants should send a letter of application specifying teaching areas of interest, a resume, academic transcripts, and other supporting documentation, including names, addresses, and telephone numbers of five references electronically to: [ecetswtksearch@purdue.edu](mailto:ecetswtksearch@purdue.edu) . Questions should be directed to Professor Neal Widmer at [ecetswtksearch@purdue.edu](mailto:ecetswtksearch@purdue.edu). *Purdue University is an equal opportunity/equal access/affirmative action employer fully committed to achieving a diverse workforce*

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April 12 - 14, 2011 (Tues. - Thurs.)  
Hilton Hotel, Northbrook, IL

**We are offering a special  
\$300 discount if you register by March 22, 2011**

**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)

## ***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.

## 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,

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## Announcement: EIT Conference – Indianapolis 2012

The Central Indiana Section of the IEEE is pleased to announce that the 2012 IEEE International Conference on Electro/Information will be held in Indianapolis in May 2012.

In the past, the conference has focused on basic/applied research results in the fields of electrical and computer engineering as they relate to IT and its applications. The purpose of the conference is to provide a forum for researchers and industrial investigators to share principles, practices, concepts, and experiences and exchange ideas and discuss developments. The interplay between academy and industry results in a better understanding of the impact of this growing field. There will be exhibits where the latest technology tools and products will be showcased. This is also an opportunity for professional development, workshops and tutorials.

This conference is a major IEEE event and the CIS-IEEE is proud to have an opportunity to host it. Planning has already begun, and the CIS is looking for volunteers in a number of areas to support the conference. If you are interested, kindly consult our website, or contact Mr. Phil Walters, [Phil.Walter@IEEE.org](mailto:Phil.Walter@IEEE.org), CIS-IEEE Chair, for more details.



## CIS-IEEE Continues Teacher Grants for 2011

### 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. 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>

## **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


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

Date	Host	Subject	Location
Tuesdays, March 1, through March 29, 6:00 pm	PES/IAS	<b>Spring Short Course "Power Quality"</b>	IPL, Safety Room, 1230 Morris St., Indy
Thursday, March 17, 6:00 pm	CIS	<b>Executive Committee Meeting</b>	Internet/Phone Bridge
Friday, March 18, 8:00 am	Electric League of Indiana	<b>"The Mind Behind the New IZOD INDYCAR Series"</b>	ELI Building, 4400 W. 16 <sup>th</sup> St., Indy
Thursday, April 14, 10:30 am	SPS	<b>"Sensor Networking for Detection: From Distributed Detection to Energy Savings and MIMO Radar"</b>	Purdue University, MSEE 239, West Lafayette, IN
Tuesday, April 19, 6:00 pm	ASME/CIS PES/IAS	<b>Student Awards Banquet</b>	Ivy Tech, 50 West Fall Creek Parkway North Dr., Indy
Thursday, April 21, 6:00 pm	CIS	<b>Executive Committee Meeting</b>	IUPUI ET 201S Internet/Phone Bridge
Tuesday, May 10,	CIS PES/IAS	<b>"Advances in Transformer Diagnostics"</b>	IPL, Safety Room, 1230 Morris St., Indy
Thursday, May 19, 6:00 pm	CIS	<b>Executive Committee Meeting</b>	Internet/Phone Bridge
Sunday, August 7, 1:00 pm	CIS	<b>Annual Picnic/Baseball Game</b>	Victory Field, Indy
August 19-22, 2011	IEEE	<b>IEEE Sections Congress</b>	San Francisco

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

**ADVERTISER EVENT**

Tuesday, April 12 – Thursday, April 14	DLS <a href="http://www.dlsemc.com/1001">www.dlsemc.com/1001</a>	EMC by Your Design Seminar	Hilton Hotel, Northbrook, IL
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**Director** (317) 225-4126  
Will Kassebaum [Will.Kassebaum@ieee.org](mailto:Will.Kassebaum@ieee.org)

**Director** (317) 706-9215  
Steve Shen [sshen@itt-tech.edu](mailto:sshen@itt-tech.edu)

**Chair** (812) 223-6520  
Phil Walter [Phil.Walter@ieee.org](mailto:Phil.Walter@ieee.org)

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

**Treasurer** (317) 441-2076  
David Koehler [David.Koehler@wicor.com](mailto:David.Koehler@wicor.com)

**Secretary** (317) 985-5360  
Karl Huehne [khuehne@ieee.org](mailto:khuehne@ieee.org)

**Power & Energy/  
Industry Applications Societies** (317) 726-1236  
Earl Hill [eshill@loma-consulting.com](mailto:eshill@loma-consulting.com)

**Computer Society** (317) 715-8598  
Matt Etchison [Matthew.Etchison@inin.com](mailto:Matthew.Etchison@inin.com)

**Signal Processing Society** (765) 496-6797  
David Love [djlove@ecn.purdue.edu](mailto:djlove@ecn.purdue.edu)

**Engineering in Medicine and Biology Society**  
Jake Chen (317) 278-7604  
[jakechen@iupui.edu](mailto:jakechen@iupui.edu)

**Central Indiana Engineering Consultants' Network (CIECN)** (317) 679-6194  
Brad Snodgrass [bsnodgrass@ieee.org](mailto:bsnodgrass@ieee.org)

**Membership Development** (317) 726-1236  
Earl Hill [eshill@loma-consulting.com](mailto:eshill@loma-consulting.com)

**Professional Activities (PACE)** (317) 249-5247  
Yaoyu Wang [yaoyuwang@yahoo.com](mailto:yaoyuwang@yahoo.com)

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

**Communications Information Officer**  
OPEN

**Finance Committee** (812) 322-4651  
Herschel Workman [herschel.workman@parttec.com](mailto:herschel.workman@parttec.com)

**Webmaster** (317) 838-2268  
Bob Evanich [b.evanich@ieee.org](mailto:b.evanich@ieee.org)

**GOLD Chair** (317) 340-5905  
Diana Vasquez [dvasque@ieee.org](mailto:dvasque@ieee.org)

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**Historian** (317) 845-5050  
Marvin Needler [mnpn@juno.com](mailto:mnpn@juno.com)

**Pre-University/Student Affairs** (317) 679-6194  
Brad Snodgrass [bsnodgrass@ieee.org](mailto: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](mailto:throne@rose-hulman.edu)

**Purdue University Student Branch**  
Tom Talavage [tmt@purdue.edu](mailto: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.

ACEC	<a href="http://www.acecindiana.org">American Council of Engineering Companies, Indiana</a>	acecindiana.org
ASCE	<a href="http://www.sections.asce.org/indiana">American Society of Civil Engineers</a>	sections.asce.org/indiana
ASME	<a href="http://www.sections.asme.org/central_indiana/">American Society of Mechanical Engineers</a>	http://sections.asme.org/central_indiana/
ASM-INDY	<a href="http://www.asm-indy.org">American Society for Metals - Indianapolis</a>	asm-indy.org
CIECN	<a href="http://www.indy-engineer.net">Central Indiana Engineering Consultants' Network</a>	Indy-Engineer.net
CINLUG	<a href="http://www.cinlug.org">Central Indiana Linux Users Group</a>	cinlug.org
IBEN	<a href="http://www.indianabionetwork.org">Indiana Biomedical Entrepreneur Network</a>	indianabionetwork.org
ICES	<a href="http://www.in-ces.org">Indiana Council of Engineering Societies</a>	in-ces.org
IHIF	<a href="http://www.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://www.indspe.org">Indiana Society of Professional Engineers</a>	indspe.org
INDYASHRAE	<a href="http://www.indyashrae.org">American Society of Heating, Refrigeration, and Air Conditioning Engineers</a>	indyashrae.org
NSBE-IAE	<a href="http://www.nsbe-iae.org">National Society of Black Engineers - Indianapolis Alumni Extension</a>	nsbe-iae.org
PIMCIC	<a href="http://www.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/
Sciencetech	<a href="http://www.scientechclub.org">Sciencetech Club in Indianapolis</a>	scientechclub.org
SIM	<a href="http://www.simnet.org">Indianapolis Chapter of Society for Information Management (SIM)</a>	SimNet.org
SWE-CI	<a href="http://www.swe-ci.com">Society of Women Engineers - Central Indiana Section</a>	swe-ci.com
Techpoint	<a href="http://www.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.