

THE REPORTER

Journal of the Central-Indiana Section • IEEE

CIS-IEEE ELECTIONS for 2012

Elections will be coming up soon. The CIS-IEEE Leadership Team has a number of positions to fill.

- Chair, Communications Society
- Chair, Fund Raising
- Chair, Constitution and Bylaws
- Section Secretary/Newsletter Editor

Any members who are interested in serving as officers, committee chairs, or in other roles are encouraged to contact the Nominating Committee (Earl Hill eshill@loma-consulting.com)

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BASEBALL GAME/PICNIC FEEDBACK

The CIS-IEEE is interested in feedback from our annual baseball picnic at the Indianapolis Indians' Victory Field on Sunday, August 7th. We are asking for every member to provide feedback about this event and for any suggestions you may have for improvement. This survey has four multiple-choice questions about some specifics of the Baseball Picnic (day, dates, food, ticket prices) and then room for open feedback and suggestions. The Survey can be found at: <http://ieee.fluidsurveys.com/surveys/R40007/baseball-picnic/>. Thank you for your time.

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PURDUE EXTENSION MEETINGS

by courtesy of Duane Mattern

Purdue Extension is having a number of shortcourses and workshops in Indianapolis. Some local IEEE members might have some interest, particularly those with offices in Broadripple (see Entrepreneur Bootcamp).

<http://www.mep.purdue.edu/events/default.aspx?category=ees&id=101#ees>

PES/IAS SEPTEMBER 2011 NEWS

By Earl Hill, Chair, PES/IAS

The CIS-IEEE has been asked to start a Power Electronics Society (PELS) Chapter here in Central Indiana. This would be a joint chapter with the PES-IAS. Anyone who is interested in serving in the new chapter, kindly contact Earl Hill eshill@loma-consulting.com for details. Current members of the PELS are being asked to sign a petition – several have signed up, but we still need a few to meet the twelve members needed.

CIS-IEEE GOLD Chair, Diana Vasquez has entered into a video competition for the Second IEEE International Conference on Smart Grid Communications. Diana's entry is "The Smart Grid: A Benefit & Innovative Solution". All the videos are available at <http://www.ieee-smartgridcomm.org/video.html>. Please take a look and vote!

Meetings for Fall 2011

Overhead System Condition Assessment and Maintenance: Techniques and Benefits

The September meeting reviewed the root causes of equipment damage, the symptoms that result from weakened equipment, the opportunity to improve overall overhead distribution reliability, case studies to demonstrate the efficacy of predictive-based overhead system hardening, and the methodologies to develop conditions-based predictive maintenance programs. The review included high-voltage laboratory test methods and results that demonstrate the failure syndromes of weakened overhead equipment.

Presenter John Lauletta has been involved in electric utility measurement technology since 1975. John's career includes ten years with American Electric Power as Measurements Manager, 14 Years as VP Scientific Columbus and most recently as President and CEO of Exacter, Inc.

Ethics and Statutes

The CIS-IEEE and Rose-Hulman Institute of Technology are pleased to announce a new Continuing Education course to meet the **ethics** and **statutes requirements for Indiana Professional Engineers**. In August 2010, state legislation passed the **Continuing Education Rule**, requiring Indiana Professional Engineers possessing active certificates to complete:

- thirty (30) hours of continuing education which meets the requirements of Indiana Code 25-1-4 in order to renew his or her Professional Engineer registration;
- at least one (1) hour of continuing education each biennium in ethics applicable to the practice of Professional Engineering; and
- at least one (1) hour of the continuing education each biennium in Indiana Statutes and Rules applicable to the practice of Professional Engineering.

The CIS-IEEE and Rose-Hulman are offering a two (2) hour course on November 8, 2011 from 2:00 pm – 4:30 pm at the offices of Indianapolis Power & Light, 1230 W. Morris St., Indianapolis, IN 46204. The course is certified by the IPLA to provide attendees with **1.0 PDH on engineering ethics** and **1.0 PDH on statutes and rules** applicable to Professional Engineering.

This course will be taught the *Rose-Hulman* way:

- small class – limited to 50 participants;
- expert instructors; and
- focused on you!

Additionally, this is a great opportunity to network with fellow classmates and Professional Engineers of Central Indiana.

Course Instructors



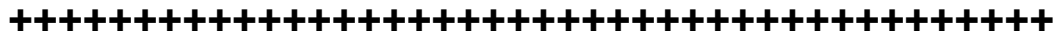
Heinz C. Luegenbiehl, Ph.D.

Dr. Luegenbiehl has taught engineering ethics for over 30 years. He has published or presented over 100 papers on the topic in addition to invited workshops and presentations at dozens of universities. He has served on the Ethics Advisory Boards of the National Science Foundation and the Sigma Xi Society. Dr. Luegenbiehl has been a visiting professor of ethics at universities in Japan and Taiwan, and at the U.S. Air Force Academy.



Gregory M. Gotwald, Esq.

Mr. Gotwald focuses his practice on litigation and appellate work in the areas of technical and complex litigation, environmental law, and insurance coverage law. Greg was named a "Rising Star" in 2010 by Indiana Super Lawyers and an "Up and Coming Lawyer" in 2009 by the Indiana Lawyer. Rose-Hulman has honored Greg as a Distinguished Young Alumni (2009) and elected him as the first-ever young alumni representative to its Board of Trustees.



SECTIONS CONGRESS

The 2011 IEEE Sections Congress was held in San Francisco from August 18 to August 24. The Central Indiana section had three representatives, Vice-chair Yuetong Lin, PACE chair Yaoyu Wang, and GOLD chair Diana Vasquez attending the conference. The delegates participated in Region 4 meeting, and general and several breakout sessions. All first-time participants to the Congress, the three representatives found the experience very inspiring, informative and productive, and are excited about the future of the IEEE organization and the growth of our own section.



Senior Member Rodeo

The CIS-IEEE has always looked to facilitate members advancing to higher levels of membership. This year, the section decided to hold the Senior Member Rodeo at the most popular section event – the Indianapolis Indians baseball game in August. As a result, the Senior Member Rodeo netted six new senior member candidates:

- Mr. Larry Rudolf
- Mr. Bob Evanich
- Mr. Yuetong Lin
- Mr. Mike Darnell
- Dr. Phil Walter
- Mr. Jeff Duff

Congratulations to the new candidates. Special thanks go to those senior members who signed recommendations and applications to move the process along. Any current members wishing to become a senior member are invited to attend next year's Rodeo.

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. The CIS-IEEE is on the verge of an agreement with the IUPUI Conference Center for holding the conference. The IUPUI facility is an excellent venue, and would highlight IUPUI, CIS-IEEE and the city of Indianapolis.

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. The CIS-IEEE is considering focusing on medical instruments and electric vehicles (both local strengths), and smart grid, but welcomes any suggestions for topics.

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, CIS-IEEE Chair, for more details.

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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
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expanded chapter on filter design, signal integrity,
signal return currents on PCB's
and a second textbook at no extra charge

October 18-20, 2011 (Tues. - Thurs.)
Hilton Hotel, Northbrook, IL



**We are offering a special
\$300 discount if you register by September 27, 2011**

Classes fill quickly so register early
email cgorowski@dlsemc.com or call 847-537-6400
www.dlsemc.com/1001

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2012 CIS-IEEE CENTENNIAL CELEBRATION

Has it already been 100 years? Time sure goes fast when you're on the cutting edge of technology, doesn't it? CIS-IEEE is planning a year-long celebration of its centennial. All members are welcome to suggest activities, commemorations, provide historical documents, plan events, provide historical memories, etc. Any of you who are so interested please contact any of the officers of CIS. We are especially interested in Senior/Life members whose history with CIS would provide a unique resource.

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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) 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) and sign-up! with the main site. (www.cis-ieee.org) Check out the calendar of events,

For immediate release

UL approves D.L.S. Conformity Assessment, Inc. for Safety Testing



Underwriters Laboratories has officially accepted D.L.S. Conformity Assessment, Inc., a subsidiary of D.L.S. Electronic Systems, Inc., into their Third Party Test Data Program. This program allows D.L.S. to test directly to UL standards for ITE, audio/video, medical devices and equipment, and laboratory test and measurement equipment for formal listing. Manufacturers will be able to complete their EMC, Safety and Environmental testing requirements all under one roof, saving them time and allowing them to speed their product to market. This program provides for a formal UL listing for U.S. and Canadian safety standards. Please go to www.dlsemc.com/ul for more information on this new program.

Information provided by:
Marilyn Sweeney
D.L.S. Electronic Systems, Inc.
1250 Peterson Drive
Wheeling, IL 60090
847-537-6400

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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 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.

See you there.

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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](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 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

- 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. 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.

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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2011 Meeting Calendar

Date	Host	Subject	Location
Thursday, October 20, 6:00 pm	CIS	Executive Committee Meeting	Internet/Phone Bridge
Tuesday, November 8	PES/IAS/CIS	Engineering and Ethics	Indianapolis Power & Light Engineering Building, Indianapolis
Thursday, November 17, 6:00 pm	CIS	Executive Committee Meeting	ET201S, IUPUI Internet/Phone Bridge

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

Tuesday, October 18 – Thursday, October 20	DLS www.dlsemc.com/1001	EMC by Your Design Seminar	Hilton Hotel, Northbrook, IL
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Engineering in Medicine and Biology Society
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Constitution and Bylaws
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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.

Finance Committee (812) 322-4651
Herschel Workman herschel.workman@parttec.com

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
CIECN	Central Indiana Engineering Consultants' Network	Indy-Engineer.net
CINLUG	Central Indiana Linux Users Group	cinlug.org
IBEN	Indiana Biomedical Entrepreneur Network	indianabionetwork.org
ICES	Indiana Council of Engineering Societies	in-ces.org
IHIF	Indiana Health Industry Forum	ihif.org
INCOSE	International Council on Systems Engineering	www.incose.org
INDSPE	Indiana Society of Professional Engineers	indspe.org
INDYASHRAE	American Society of Heating, Refrigeration, 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.indianasae.org
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

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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.