THE REPORTER

Journal of the Central Indiana Section • IEEE

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Central Indiana Section Conference

The Central Indiana Section IEEE is holding an exciting two day conference November 8th and 9th at the Indianapolis Marriott East. Presentations will be provided from various IEEE societies and affinity groups. Please plan on attending this annual event and network with your fellow colleagues.

Conference Schedule

Times	Friday November 8	Saturday November 9	
8:00 am-8:15 am	Welcome/House Keeping	Welcome/House Keeping	
8:15am-9:15am	Computer Society	CEICN (Consultants Network)	
9:15am-10:15am	Computer Society	CEICN (Consultants Network)	
10:15am-10:30am	Break	Break	Hotel
10:30am-11:30am	Signal Processing Society	PACE (Professional Activities Committees for Engineers)	
11:30am-12:30pm	Lunch	Lunch	Hotel
12:30pm-1:30pm	Signal Processing Society	WIE (Women in Engineering)	
1:30pm-2:30pm	Communications Society	WIE (Women in Engineering)	
2:30pm-2:45pm	Break	Break	Hotel
2:45pm-3:45pm	Communications Society	GOLD (Graduates of Last Decade)	
3:45pm-4:45pm	Kevin Van-Fort Wayne	GOLD (Graduates of Last Decade)	

***Registration Fees:**
IEEE Members = $50 per day or $80 for both days
Non IEEE Members = $80 per day or $140 for both days
Student Members = $35 per day or $60 for both days
Non IEEE Student = $45 per day or $70 for both days

* Anybody registering after Nov 1, 2013 mid night EDT would be charged +20%. In order to keep attendee' costs low, the Central Indiana Section has agreed to subsidize costs. Registration fee includes daily presentation materials, all meals (continental breakfast, morning break, lunch, and afternoon break)

Price for the exhibitors: $250 (1 attendee + $100 for each additional
Sponsorship opportunities are also available
Registration will be available in at: http://www.cis-ieee.org/
Any questions please contact David Koehler email: David.Koehler@ieee.org

Confirmed Speakers:

Communications Society
Gongjun Yan, Ph.D., Assistant Professor of Informatics
School of Science, Indiana University Kokomo
Title: Towards Providing Scalable and Robust Privacy in Vehicular Networks

Consultants Network
Matt Schantz is an Intellectual Property Lawyer and IEEE member. Title and abstract of presentation will be confirmed in the next month.

John Layden is a supply chain velocity expert and owner of the Ancelus database product. Title and abstract of presentation will be confirmed in the next month.

Signal Processing Society
Mimi Boutin, Professor Purdue University, Chair Signal Processing Society
Title: The "Inverse Recipe" problem: how to figure out the amount of each ingredient used to prepare a food from its label

Edward Delp, Video and Image Processing Laboratory, School of Electrical and Computer Engineering, School of Biomedical Engineering, Purdue University
Title: That Thing In Your Pocket Is Really A Computer! The Future of Mobile Computing

Computer Society
Paul Lin, Professor Department of Electrical, Computer, and Information Technology College of Engineering, Technology, and Computer Science Indiana University-Purdue University
Title 1: Design Issues for Electronics Health Record Using Cloud Computing Technologies

Title 2: Design of a Reliable Communication System using Cloud-Based Technologies for Corrosion Monitoring System

Graduates of Last Decade (GOLD)
Jennifer Williams, Director, Office of Career Services and Professional Development, Purdue School of Engineering and Technology, IUPUI
Title: Interview, resume building, and job seeking skills necessary for today's business environment.

Professional Activities Committees for Engineers (PACE)
Don Bramlett, IEEE Region 4 Advisor
Title: Leadership Skills

Kevin VanZuilen: Chair IEEE- Fort Wayne Section
Title: Failure Analysis of Electronic Components

Fig 1. Presentations at previous CIS IEEE Conferences

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PES/IAS/PELS News

Earl Hill, Chair, PES/IAS/PELS
Ben Huckaba, Vice-Chair, PES/IAS/PELS

The PES/IAS/PELS has an active fall planned. Its September meeting was on Load Testing for facilities that include Data Centers and Utility Substations. Speakers Mark Siira of ComRent® International and Wayne Stec of Distregen, LLC addressed the benefits, economics, industry trends, innovations, and lessons learned of using load banks to test and commission electrical and thermal systems.

In October the section plans a 4-5 week short course on Circuit Breakers to be taught by industry vendors and testing professionals. Details are still forthcoming (will be posted at www.cis-ieee.org), but attendees can expect informative and educational sessions each Tuesday in October.

The section plans Role of Power Electronics in Future Electric SMART Grid for its November meeting, with Dr. Ram Adapa of EPRI presenting. Finally, the January meeting will be GIS Integrated Analytics for Preventive Maintenance and Storm Response, where John Lauletta of Exacter, Inc. explains the role of GIS for utilities in the future.

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Learning how to design your product so that it complies with EMC regulations can save you from having a finished product that fails during its regulatory compliance testing. Re-designing or adding fixes to a failed product can be expensive and time consuming. By taking the EMC by Your Design Seminar, you will learn the fundamentals of electro-magnetic compatibility, including understanding the many EMC regulatory requirements such as FCC, CE, US Military, RTCA-DO-160 and those of most foreign countries. You will learn the methodology of how to minimize EMC problems, starting with the design process through final testing and approval, all of which will be brought to life through hands-on practical application to real life products. Also included will be a guided tour of the largest independent EMC and Product Safety facility in North America.

This newly updated curriculum was developed by Donald L. Sweeney and his associates. It includes how an electronic circuit becomes a radio transmitter, how the physics of even the simplest devices such as capacitors, inductors and shielding can help or hinder compliance and how to control the design to minimize emissions. Students will be lead step-by-step through sample calculations, be introduced to take-home proprietary software and be led through trouble shooting a product that does not meet the requirements. Additionally, attendees will be offered an exclusive, hands-on personal consultation with the instructor or a member of his technical staff to apply what has been learned to their specific product, possibly saving tens or hundreds of thousands of dollars in reduced testing, reduced time to market and reduced final product cost.

2013 Meeting Calendar

Date	Host	Subject	Location
Monthly	CIS	**Executive Committee Meeting Annual Planning Meeting**	ET103, IUPUI Internet/Phone Bridge

... Check the Section web page for details and current information. ▱▱▱.

ADVERTISER EVENT

October 8, 2013	DLS http://dlsemc.com/	See Advertisement on Page 3	Hilton, Northbrook, IL

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Central Indiana Engineering Web Links

ACEC	American Council of Engineering Companies, Indiana	acecindiana.org
ASCE	American Society of Civil Engineers	inasce.org
ASME	American Society of Mechanical Engineers	sections.asme.org/central_indiana
ASM-INDY	American Society for Metals - Indianapolis	asm-indy.org
CIECN	Central Indiana Engineering Consultants' Network	indy-engineer.dnsalias.com
CINLUG	Central Indiana Linux Users Group	cinlug.org
IBEN	Indiana Biomedical Entrepreneur Network	indianabionetwork.org
IHIF	Indiana Health Industry Forum	ihif.org
INCOSE	International Council on Systems Engineering	incose-coa.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	indianasae.org
Scientech	Scientech Club in Indianapolis	scientechclub.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.

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<u>**Editorial Policies**</u>

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.

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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? Got a meeting idea?

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

Linked in ®   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.

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

E-Notices
Login to myIEEE from the IEEE Home Page (www.ieee.org) and sign-up!
at the main site. (www.cis-ieee.org) Check out the calendar of events,