

THE REPORTER

Journal of the Central Indiana Section • IEEE

Central Indiana Section Annual Conference 2014 IEEE EnCON

Indianapolis Marriott North

November 7-8, 2014

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

Society and Affinity Groups accepting proposals for:

- Computer Society
- Engineering in Medicine and Biology Society
- Information Theory Society
- Communications Society
- Consulting Network
- Gold/Young Professionals
- Women in Engineering
- Ethics in Engineering



Deadline for presentation abstract and bio submission: **July 31, 2014**. For abstract submission and questions, please contact Ben Flecker: bflecker@gmail.com

Conference Information:

IEEE Central Indiana Section proudly announces its annual conference in Indianapolis, IN. This year's conference is titled "2014 IEEE EnCON". This unique two-day conference is not only geared towards practicing engineers, but also students and retired engineers. This is an excellent opportunity for networking, knowledge sharing and professional development.

Friday, November 7th (Day 1) presentations are aimed at keeping attendees informed of the latest trends in technology. The material will be presented by some of the industry leaders within the Computer, Information Theory, Signal Processing, and Communications Societies, in an easy to understand format.

Whether you're just starting a career or have been practicing for many years, Saturday's program will give the attendees the skills necessary to find a job or help keep them competitive in today's ever changing business world. Presentations will be provided by the following Affinity Groups: Central Indiana Engineering Consultants' Network (CIECN), Professional Activities Committee for Engineers (PACE), Women In Engineering (WIE) and Graduates of the Last Decade (GOLD).

Please join us to enhance your current knowledge, update a skill-set, or network with colleagues!

Highlights from 2013 IEEE Central Indiana Sections Conference

2013 Event Day 1

Speaker	Topic
Paul Lin/Syed Nayab Hasan	Design Issues for Electronics Health Record Using Cloud Computing Technologies
Paul Lin/Mengwei Li	Design of a Reliable Communication System using Cloud-Based Technologies for Corrosion Monitoring System
Edward Delp	That Thing In Your Pocket Is Really A Computer. The Future of Mobile Computing
Mimi Boutin	The "Inverse Recipe" problem: How to figure out the amount of each ingredient used to prepare a food from its label
Gongjun Yan	Towards Providing Scalable and Robust Privacy in Vehicular Networks
David Koehler	Condition Assessment of transformers through analytical testing of insulating fluids.
Kevin Vanzullen	Failure Analysis of Electronic Components

2013 Event Day 2

Speaker	Topic
Matt Schantz	Patent Basics for Engineers
John E. Layden	Disruptive technology: The coming revolution in software development
Don Bramlett	Leadership Skills
Ms. Angelina Rodriguez	Workforce diversity
Tara Vatcher	Being women, engineer and manager!
Jennifer Williams	Interview, resume building, and job seeking skills necessary for today's business environment.
Dr. T Razban	The process and importance of acquiring FE/PE licensing



Attendees listen to a 2013 Conference Speaker.

Annual Central Indiana Section Baseball Outing
Indianapolis Indians vs. Columbus Clippers
Sunday, July 13, 2014, Lunch 12:30pm, Game 1:35pm
Victory Field, Indianapolis
1st Base Suite Level Party Terrace

Join us on Sunday, July 13th for our annual social outing to meet your fellow IEEE members and enjoy a beautiful afternoon at Victory Field in Indianapolis. The VIP Party Terrace is a wonderful place to watch your Indianapolis Indians play and still mingle and talk with your colleagues and families. If you didn't come last year, you will want to make special plans to come this year!! We are keeping the same great low prices as the last few years to encourage everyone to come; \$20 for members and guests, \$10 per child (age 2 and under are free), and \$10 for student members. This includes a catered lunch beginning at about 12:30pm with food and drinks available throughout the game including beer for the adults. The gates open at noon and the game starts at 1:35pm. The Terrace is covered so it will be breezy and delightful regardless of sun or rain.

Registration coming soon at: <http://www.cis-ieee.org> **Special!!** The first ten GOLD members to register will get their first adult ticket for only \$10.

In addition, again this year we will be holding a "Senior Rodeo" event during the game. This event provides eligible IEEE members with computers, references, and help in completing the online application for IEEE Senior Membership Grade. Please review the eligibility requirements at http://www.ieee.org/membership_services/membership/senior/index.html, then register at <http://www.cis-ieee.org> (coming soon), and finally bring a current resume and your IEEE member number to participate in the "Senior Rodeo" event. We look forward to seeing you all at the game!!



Members enjoy the game and Party Terrace in previous years.

New Senior Members

Congratulations to our newest senior members!

Sivanandan Harilal

Paul Leisher

Marco Amrhein

Biographies of newly elevated members follow when available.
 Please submit additional biographies to mcnallyh@purdue.edu

Dr. Sivanandan Harilal received a Ph.D. in plasma physics from Cochin University of Science & Technology, India in 1998. In the same year Dr. Harilal won the prestigious Alexander Humboldt Fellowship to pursue postdoctoral research in colliding plasma physics with Prof. HJ Kunze's group at Ruhr University Bochum, Germany. Before joining Purdue in 2008, he was a member of the fusion group at University of California San Diego, CA and Argonne National Laboratory, IL. Dr. Harilal held the Science Foundation of Ireland visiting fellow position at University College Dublin during 2007-2010. He was a recipient of the Paul C. Zmola Faculty Scholar of Nuclear Engineering Award. He has authored or co-authored over 130 peer-reviewed publications and book chapters in laser-plasma, plasma diagnostics, EUV lithography, plasma-facing components, and plasma applications.

Dr. Paul O. Leisher (S'98-M'07-SM'14) was born in Sao Paulo, Brazil on October 29, 1980. He received the B.S. degree in electrical engineering from Bradley University (Peoria, IL) in 2002. He received the M.S. and Ph.D. degrees in electrical and computer engineering from the University of Illinois at Urbana-Champaign in 2004 and 2007, respectively. He is currently an Associate Professor in the Department of Physics and Optical Engineering at Rose-Hulman Institute of Technology in Terre Haute, IN. From 2007 to 2011, he worked at nLight Photonics Corporation in Vancouver, WA, most recently holding the position of Manager of Advanced Technology. Dr. Leisher has published more than 150 scientific journal articles and conference presentations and taught many courses in the areas of semiconductor laser physics, optoelectronic device reliability, semiconductor device physics, geometric optics, lens design, and product development. His research interests include the design, fabrication, characterization and analysis of high power semiconductor lasers, light emitting diodes, photonic crystals, diode-pumped solid state lasers, fiber lasers, and other photonic devices. Dr. Leisher is a member of SPIE, OSA, and IEEE/Photonics Society.

Dr. Marco Amrhein received his Diploma in electrical engineering (BSEE equivalent) from the Zurich University of Applied Sciences, Switzerland, in 2000. He received the MS and PhD degrees, both in electrical engineering, from the University of Illinois at Urbana-Champaign in 2003 and 2007, respectively, focusing on design improvements of high-performance electrical machines. In 2001, he was a research engineer in the controls group at the Zurich University of Applied Sciences, Switzerland. In 2007, he joined PC Krause and Associates Inc. in West Lafayette, IN, where he is currently employed as a Senior Lead Engineer and works on several research and development efforts involving aircraft generator and utility actuator machine design, power electronics converter design, and large integrated system modeling, simulation and analysis efforts. His research interests include all aspects of electrical machines, drives, and power electronics, with emphasis in machine design, and he has published over 23 journal and conference papers in these areas.

New Fellow On-line System

By Rosann Marosy

The task of nominating a Senior Member for Fellow grade got easier with the new Fellow On-line System. Multiple upgrades were incorporated, but three main enhancements will please nominators. After a nominator logs in the system, the first requirement will be to input the nominee's member number. Entering this information will immediately let the nominator know if the nominee meets the requirements of being an active IEEE Senior or Life Senior Member and if the nominee has been a member in good standing for five years or more. If a nominee is ineligible, the system will prevent the nominator from filling out the entire form and avoid any unnecessary time.

Another new feature that's required is inputting the member number of the references. The nomination must include at least five, but no more than eight references who are IEEE Fellows. Entering this information will immediately inform the nominator, if a reference is eligible or not.

The best feature is allowing nominators the capability to make changes to main text, update e-mail addresses, add and delete reference and endorsement names, and to delete nominations they prepared out of the system up to the 1 March deadline. Providing nominators this kind of flexibility will give them the opportunity to prepare a better nomination.

After the deadline has been reached, the system will authenticate all the data and verify that each nomination package is complete. As soon as this process is finished, a confirmation will be sent to the nominator letting them know whether the nomination will or will not be considered.

The system is now open and ready to accept nominations for the class of 2016. Starting the process early will alleviate last minute issues. You can visit the Fellow Web Site at www.ieee.org/fellows, then click “Online Nomination Form” to begin.

Power & Energy / Industry Applications / Power Electronics Society News

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

March 2014 PES-IAS-PELS Short Course: Smart Grid: Concepts, Solutions, Standards, Policy, Recent Deployments and Lessons Learned, presented by John D. McDonald, P.E., Director, Technical Strategy & Policy Development, GE Energy’s Digital Energy. This course was unusual in that Mr. McDonald presented seven hours of material in one day, rather than over the traditional 4 week short course format. However, the attendees found the format to be acceptable, and as a result, the CIS-IEEE will continue to short course that follow this approach. 40 members attended session, which was an excellent result for an all-day weekday course. The course was held at IUPUI. PDHs will be awarded to interested members who provided feedback forms at the end of the course.

Mr. McDonald presented this talk is to familiarize participants with Smart Grid concepts and solutions, including Distribution Optimization, Transmission Optimization, Asset Optimization, Demand Optimization, Smart Meters and Communications, and Workforce and Engineering Design Optimization. Smart Grid industry standards efforts will be discussed, including NIST, IEEE, CIGRE and IEC. Policy directly drives investment in Smart Grid technology, and lessons learned from renewables will be shown and applied to Smart Grid. An overview of recent Smart Grid deployments will be given, including the lessons learned from the deployments.



the

John D. McDonald, P.E.,

The CIS-IEEE was pleased to have Mr. McDonald speak. He is one of the prime movers in the Transition to Smart Grids, and, as a Purdue graduate, was willing and interested in speaking to our group. He was recruited by a member, Josh Snodgrass. Kindly be aware of opportunities to bring speakers to our meetings when attending national organizational conferences and events.

April 2014 PES-IAS-PELS Meeting: Photovoltaic Materials, Electrical Characteristics, and Systems for Power Generation, presented by Dr. Niusha Rostamkolai, Rose-Hulman Institute of Technology. This course provided an introduction to the uses of PV cells for electric power generation. PV is one of the leading renewable sources of energy and is expected to grow significantly in importance in the coming years. Thirty members attended the session, which was held at IPL. PDHs will be awarded to interested members who provided feedback forms at the end of the meeting. Dr. Rostamkolai has been a regular presenter for the CIS-IEEE PES-IAS-PELS over the years. On this occasion, he was able to present on very short notice – the section wishes to thank him for doing so.

Spring Tour of the Battery Innovation Center

The CIS-IEEE PES-IAS-PELS Chapter toured the Battery Innovation Center (BIC) at NSW Crane in southwest central Indiana near Newberry Indiana on May 13th. The tour was guided by Captain (Retired) Chuck LaSota, President of the BIC, and his staff. This meeting was also a joint meeting between the Central Indiana Section

and the Evansville/Owensboro section – the first such meeting. Over 25 IEEE members from the two sections attended. PDHs will be provided to interested members who returned feedback forms at the meeting.

The Battery Innovation Center (BIC) is a unique public-private partnership and not-for-profit organization that incorporates leadership from world-class universities, commercial enterprises, and government organizations to focus on the rapid development, testing and commercialization of safe, reliable and lighter weight energy storage systems for commercial and defense organizations. Located adjacent to Naval Surface Warfare Center (NSWC) Crane, the BIC provides both a virtual collaborative network of capabilities needed for development of next generation energy storage solutions as well as a new, state-of-the-art, \$15.6 million energy research lab (from www.BICIndiana.com).



The Battery Innovation Center



Captain LaSota and his team

The BIC building is a 32,000 square foot building including a number of facilities for testing and manufacturing batteries. The tour consisted of an introductory talk by Captain LaSota followed by a question and answer session and a visit to the equipment room. The BIC maintains a large room with a number of areas for conducting tests of batteries, such as temperature controlled testing areas for accelerated aging tests (to estimate the life of the batteries being tested). The tour lasted until 730 PM.

Battery testing equipment at the Center – the BIC operates more than 8 test sets, as well as a wide variety of other tools for building and testing customized batteries. The Center looks to provide testing as a service to a number of new clients.



Battery testing equipment at the BIC

Future meetings of PES-IAS-PELS include:

Volt and VAR Optimization with Larry Conrad (Duke retiree) - September 9th

Variable Frequency Drives (short course) in September / October

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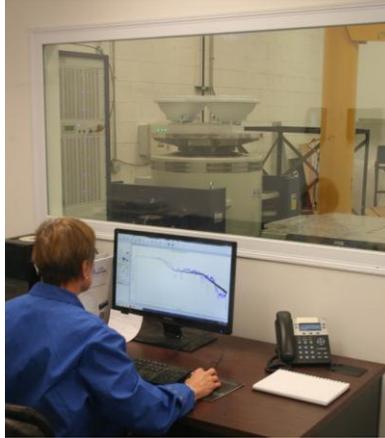
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Vibration Testing at D.L.S.'s Environmental Test Lab

For Immediate Release

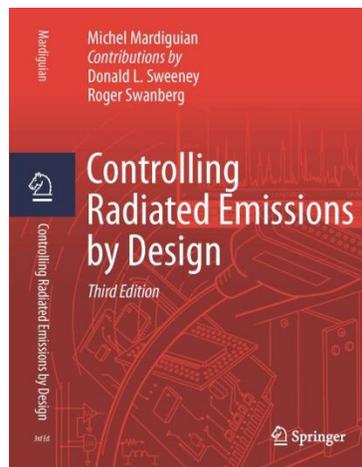
Latest EMC Book

Controlling Radiated Emissions by Design, 3rd Edition

By Michel Mardiguian

Contributed to and Edited by Donald L. Sweeney

with Worldwide Standards Updated



Design Techniques for Controlling Radiated Emissions (now called *Controlling Radiated Emissions by Design*) has been considered by Donald Sweeney to be the ideal textbook for his *EMC By Your Design Seminars* since 1992, when the book was first published. And now in its new third edition, Don is pleased to have contributed to many parts of the book, including updating the Worldwide Standards and many of the graphics, as well as editing the entire book. All 13 chapters have been revised and updated addressing newer technologies, especially the updating of clock speeds and the examples worked out in the book. A special feature of the book will be a link to a continuous update of world standards and requirements as they change.

Those who have previously attended a D.L.S. Seminar using the 1st or 2nd edition of the book, and who would like to take a refresher course using the new book, will be given a 50% discount from the October 2014 seminar price.

EMC by Your Design

An EMC Practical Applications Seminar and Workshop

Tues. Oct. 7 – Thurs Oct. 9, 2014

Northbrook, IL

For more information, click on www.dlsemc.com/emcdesignseminar or call 847-537-6400

Central Indiana Section News

Professional Development Hours (PDH):

Many of our members are interested in receiving PDH for attending CIS-IEEE meetings. In the past the section has provided PDH for short courses. Recently, we have worked out an arrangement with the IEEE National Organization to provide PDHs for members attending the routine meetings and the short course who provide completed feedback forms at the end of the course/meeting. PDHs will be provided for the CIS-IEEE PES-IAS-PELS meetings in March, April and May for attendees who completed the feedback form. Attendees of future meetings (assuming this arrangement continues) will also receive PDH certificates, which will be provided by the IEEE National Organization in New Jersey for these meetings.

Attendees for the October 2013 Short Course on circuit breakers will also receive PDH certificates (already prepared and ready to send) from the CIS-IEEE. Attendees for the September 2013, November 2013, January 2014, and February 2014 have received or will receive copies of the attendance list (to verify attendance), the presentation material, and the speaker biographies. By the definitions provided by the state of Indiana, this should be sufficient for PDH credit, but each engineer must decide for himself/herself if these courses meet the state's criteria (provided at:

<http://www.in.gov/pla/2747.htm>

<http://www.in.gov/legislative/iac/20131211-IR-864130333FRA.xml.pdf> (jump to section 16 – although you will want to review some of the links on this page as well).

Each professional engineer is encouraged to read this material and understand the state's requirements. We recommend collecting more than the minimum number of PDHs for renewing your Professional Engineering License.

ACTIVITIES

Annual CIS-IEEE Indians Game: The CIS-IEEE will hold its annual Baseball game on July 13th at Victory Field. This is a Sunday Afternoon game. As in past years, the CIS-IEEE rents a party deck down the First or Third Base Line, which is exclusively for our use. The deck has its own food and drink supply, plus plenty of chairs for watching the game. It is also a great network opportunity as well as a great family outing. Spouses and other friends and family members welcome! The CIS-IEEE subsidizes the price, so it's very reasonable. Please watch the CIS-IEEE website for details (www.cis-ieee.org).

Annual Section Conference: The PES-IAS-PELS is seeking speakers for the CIS-IEEE Annual Conference to be held November 7th and 8th at the Indianapolis Marriott. This two day event features speakers from a wide variety of disciplines. Any topic – for example, renewable energy, improved motor efficiencies, advances in semiconductors – of general interest to electrical engineers can be submitted to the Conference for approval. Please contact Earl Hill eshill@loma-consulting.com or Ben Fleck btflecker@gmail.com for more details.

Additional Speaking Opportunity – The Engineering Medicine and Biology Society is interested in finding a speaker to address the reliability needs of hospitals and other medical facilities. This topic can include external supply such as hardening feeders or internal supply, such as emergency generators and backup supplies. This presentation could also be part of the CIS-IEEE Annual Conference to be held November 7th and 8th at the Indianapolis Marriott. Please contact Earl Hill eshill@loma-consulting.com or David Chartash dchartas@ieee.org for more details.

Duke Energy Academy – Purdue University and Duke Energy have established a one week training academy (June 22nd to June 28th) for high school aged STEM students and their teachers. The week involves classes, seminars, tours, and hand-on demonstrations. The Academy is looking for volunteers who might be interested in helping with the hands-on demonstrations. Please visit

<http://www.purdue.edu/discoverypark/energy/energyacademy/> for details. To volunteer, contact Earl Hill eshill@loma-consulting.com or Dr. Pankaj Sharma sharma@purdue.edu.

2013 Meeting Calendar

Date	Host	Subject	Location
Monthly	CIS	Executive Committee Meetings	Internet/Phone Bridge
November 7-8, 2014	CIS	Section Conference	Indianapolis Marriott North

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

ADVERTISER EVENT

October 7–9, 2014	DLS http://dlsemc.com/	See Advertisement on Pages 8	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
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.

Central Indiana Section Active Volunteers**Director (1st Year)**

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Chih-Chun Wang

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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.

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



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,