

# 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/>

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 7<sup>th</sup> (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!

\*\*\*\*\*

## Power & Energy / Industry Applications / Power Electronics Society News

**Earl Hill, Chair, PES/IAS/PELS**

**Ben Huckaba, Vice-Chair, PES/IAS/PELS**

***Congratulations*** to the Power & Energy / Industry Applications / Power Electronics Society. They have won an IEEE PES 2013 High Performing Chapter Award. They will be receiving \$300 to advance their programs. Nice Job Earl and Ben!

\*\*\*\*\*



## Energy Academy to Inspire Future Engineers



June 24, 2014

*“The United States is facing a lack of high quality engineering students, so the future of the power engineering work force can potentially be in jeopardy”*

With a higher demand for energy based on the continuous growth in our world's population, there is also a higher demand for power and energy professionals. The United States is facing a lack of high quality engineering students, so the future of the power engineering work force can potentially be in jeopardy. It is imperative to inspire and give incentives to K-12 students to pursue STEM related careers.

Energy Academy. The mission of the Energy Academy is “to inspire high school students and teachers in energy sciences and engineering.” It is a week-long immersive program in the summer where high school students and secondary teachers learn more about energy-related topics including power generation, transportation, power transmission, energy efficiency and energy research.

A great initiative was launched at Purdue University, where three years ago a group of faculty, staff, students, and volunteers hosted the first

Participants are presented with lectures, tours, and hands-on activities that promote project based learning. Some students and teachers concentrate

*“An initial survey of past participants showed that 92 percent of teachers indicated that they gained knowledge that they would implement in their classrooms, while 93 percent of students said they would enter a STEM-related field in college.”*

**Pankaj sharma**

*Managing Director, Energy Center Discovery Park*

on energy-related projects, while others participate in energy policy challenges.

Teachers are also provided with lectures and material that they can use in their own classrooms. Teachers developed energy lessons that could be given in class rooms to inspire students to make broader impact.

“An initial survey of past participants showed that 92 percent of teachers indicated that they gained knowledge that they would implement in their classrooms, while 93 percent of students said they would enter a STEM-related field in college.” said Pankaj sharma, Managing Director, Energy Center, Discovery Park.

The participation is free of charge for the selected students, and teachers receive a \$400 stipend to

participate, as well as professional development continuous education credit hours.

Diana Vasquez, Young Professionals Chair of the Central Indiana Section participated as a volunteer for a day and had a wonderful experience.

The Energy Academy is a great resource for our Indiana High School Students as well as an opportunity for CIS-IEEE members to participate as volunteers and mentors.

The program is primarily funded by the Duke Energy Foundation Indiana. The 2015 Duke Energy Academy will be on June 7-13.

For more information about the Energy Academy visit <http://www.purdue.edu/discoverypark/energy/energyacademy/index.php>



 **IEEE**  
Advancing Technology  
for Humanity



## New Senior Members

Congratulations to our newest senior members!

**James Garrison**

**Rajeev R. Raje**

Biographies of newly elevated members follow when available.

Please submit additional biographies to [mcnallyh@purdue.edu](mailto:mcnallyh@purdue.edu)

**James L. Garrison** has been a member of the faculty at Purdue University since 2000, where he is currently an Associate Professor in the School of Aeronautics and Astronautics. He holds courtesy appointments in the School of Electrical and Computer Engineering and the Division Environmental and Ecological Engineering. From 1988 to 2000 he was employed by the National Aeronautics and Space Administration (NASA), first at the Langley Research Center in Hampton VA, and later at the Goddard Space Flight Center in Greenbelt MD. He earned a PhD from the University of Colorado Boulder in 1997 and also holds a BS from the Rensselaer Polytechnic Institute and an MS from Stanford University. He is the author or co-author of 26 journal articles, 52 conference proceedings, 6 US Patents, and has served as the Chair of GNSS+R 2012, an IEEE-NASA co-sponsored conference. Prof. Garrison has received a number of awards, including a NASA Exceptional Space Act Award, a NASA New Investigator grant, an Institute of Navigation Early Achievement Award, and a Keck Futures Initiative grant. Current research interests of Prof. Garrison include Earth remote sensing using Global Navigation Satellite Systems (GNSS) and signals of opportunity.

**Rajeev R. Raje** is a Professor and Associate Chair in the Department of Computer and Information Science at the Indiana University-Purdue University Indianapolis (IUPUI). Rajeev's current research interests are in the fields of distributed computing and programming, object and component-based software systems, programming languages, and software engineering. He has published more than 110 research papers and has been an invited speaker on many occasions. His current and past research has been funded by various federal agencies (e.g., ONR and NSF) and private organizations (e.g., Microsoft). Rajeev has served on Program Committees of many prominent conferences and has also acted as an external reviewer for journals, conferences, the NSF, and national and international universities. He has been a recipient of several honors, including the IUPUI Trustees Teaching Award (twice) and the Favorite Faculty Award (given by the Computer Science Club at IUPUI). Rajeev is a Senior member of the ACM. More information about Rajeev is available at: <http://www.cs.iupui.edu/~rraje>.

\*\*\*\*\*

## 2014 IEEE Sections Congress

Members of the Central Indiana Section attending the 2014 IEEE Sections Congress were: David Koehler (Chair), Stavan Dholakia (Vice-Chair), and Tim Alt (Treasurer). David attended the meeting from a Region 4 standpoint, as he is also the East Area Chair for Region 4. Stavan attended as the section's primary delegate.

The Sections Congress is a triennial gathering of IEEE grassroots leadership to 1) network with other Section leaders, 2) attend training programs and 3) develop recommendations to guide the future of IEEE. In addition the Congress provides an opportunity for delegates to gain information and training skills, to network and build relationships with other volunteers within IEEE, and to serve as a forum for Section representatives and other local leaders, enabling them to voice – on behalf of the collective membership – the ideas, issues, and recommendations which will impact the development and growth of IEEE throughout the world, reinforcing its vitality and relevance to those it serves.

The SC2014 theme was "Inspiring Our Leaders of Tomorrow." Three program tracks were followed to 1) Enhance Member Satisfaction, 2) Improve Volunteer Experience and 3) Reach Globally with Local Touch.

An important part of Sections Congress is recommendations voting. Thirty-four recommendations were developed by Section and Region leadership. The Primary Section Delegates voted for the final top five recommendations which were:

- 1) Include free access to IEEE Digital Library as a member benefit. Promote other IEEE services and products based on their usage and preferences (adopt Google Business Model).
- 2) Develop an incentive and recognition program for companies that invest in full or partial support of their employees' IEEE membership dues.
- 3) Introduce loyalty rewards such as publication access, conference fees, and standards for continued membership.
- 4) Provide a tool to build, promote, record, host and broadcast technical events at the local level and make them available to IEEE members.
- 5) Enhance vTools for better usability by volunteers and provide a training program to the Sections.

These five prioritized recommendations will be presented to the MGA Board for action and reported to the IEEE Board of Directors.

\*\*\*\*\*

**Congratulations to the Newly Formed  
Industry Applications Society Student Branch  
at Purdue University - Indianapolis**



**Cecelia Jankowski**  
*Managing Director*  
*Member and Geographic Activities*  
Phone +1 732 562 5504  
Fax +1 732 981 1591  
c.jankowski@ieee.org

26 June 2014

EUZELI DOS SANTOS JR.  
IUPUI  
SL 160  
723 W MICHIGAN ST  
INDIANAPOLIS, IN 46202-5191

Dear Euzeli Dos Santos Jr.:

Congratulations! It is a pleasure to inform you that the requirements of the Member and Geographic Activities Board Operations Manual have been met and the IEEE Industry Applications Society Student Branch Chapter at the Purdue University-Indianapolis has been formed. The effective date of this Student Branch Chapter formation is Approval Date 2 June 2014.

On behalf of the IEEE and its members, I would like to welcome your Branch Chapter to the student program. If you have any questions or need assistance, please do not hesitate to contact our Student Services department at:

Student Services  
IEEE Member and Geographic Activities Department  
445 Hoes Lane  
Piscataway, NJ 08854

student-services@ieee.org, email  
+1 732 562 5527, phone  
+1 732 463 9359, fax

Sincerely,

Cecelia Jankowski  
Managing Director  
Member and Geographic Activities



**AMPHIBIOUS WARSHIP**  
INDUSTRIAL BASE COALITION

### Press Release

## Congressman Brad Schneider Visits DLS Electronic Systems, Inc. Facility in Wheeling, IL



Congressman Brad Schneider (D-IL-10) talks with DLS Electronic Systems, Inc. employees.

**(July 2, 2014) Wheeling, IL** —Congressman Brad Schneider (D-IL-10) visited DLS Electronic Systems, Inc. in Wheeling, IL to witness firsthand the skilled jobs and businesses that the production of U.S. Navy amphibious warships brings to the region and to the local economy. DLS provides electromagnetic compatibility (EMC), environmental, mechanical and climatic testing, along with power quality testing for equipment used on U.S. Navy amphibious warships.

During his tour, Congressman Schneider met with the employees at DLS to discuss the unique skills they contribute to the industrial base that supplies parts and products critical to the U.S. Navy's amphibious warship program.

"I was pleased to have the opportunity to be able to meet the hardworking employees at DLS Electronic Systems and to develop a greater understanding of the significant contributions they make to our local economy and our national defense," said Congressman Schneider. "As a member of the Committee on Small Businesses, I understand the importance of facilities like this one to a prosperous local economy and a healthy industrial base to guarantee that our soldiers deployed have the equipment they need to fully accomplish their mission."

"Hosting Congressman Schneider at our facility gave us the opportunity to showcase the work we do at DLS Electronic Systems and highlight how our business depends on a fully funded U.S. Navy amphibious warship construction program. We look forward to Congressman Schneider's continued leadership on funding amphibious warships at a level that will maintain our nation's strength," said Jack Black, Business Development Manager at DLS Electric Systems, Inc.

For more information visit [www.dlsemc.com](http://www.dlsemc.com), email Jack Black at [jblack@dlsemc.com](mailto:jblack@dlsemc.com), or call 847-537-6400.



## ADVERTISEMENT

## Latest EMC Book

*Controlling Radiated Emissions by Design, 3rd Edition  
contributed to and edited by Donald L. Sweeney,  
including the latest digital technology, published 2014*



## EMC by Your Design

## An EMC Practical Applications Seminar and Workshop

using the most recent EMC Design Book  
plus take home proprietary computer program,  
expanded section on filter design, signal integrity,  
and signal return currents on PCB's  
and a free 45 min. individual product design evaluation

October 7-9, 2014 (Tues. - Thurs.)  
Hilton Hotel, Northbrook, IL



**\$300 discount if you register by September 16, 2014.**  
**A special 50% discount on the October seminar to attendees  
of previous D.L.S. seminars who used the 1st or 2nd edition.**

**Classes fill quickly so register early**

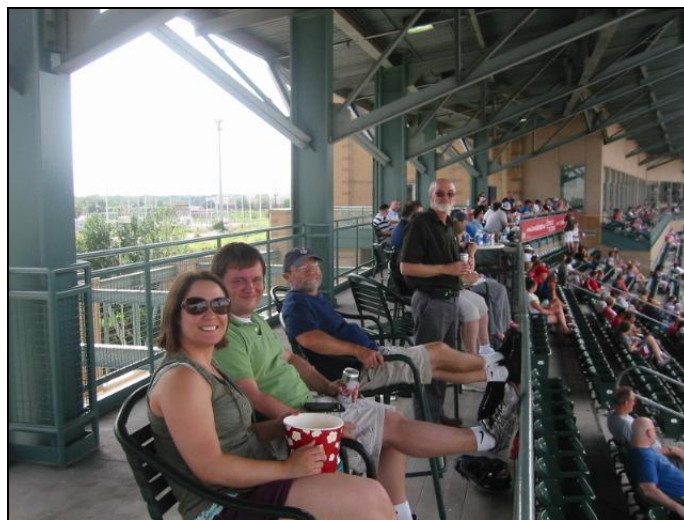
email [cgorowski@dlsemc.com](mailto:cgorowski@dlsemc.com) or call 847-537-6400  
[www.dlsemc.com/emcdesignseminar](http://www.dlsemc.com/emcdesignseminar)

\*\*\*\*\*

## Central Indiana Section Activities

## Annual Central Indiana Section Baseball Outing

Great fun was had at the Annual Baseball Outing where the Indianapolis Indians played the Columbus Clippers at Victory Field, Indianapolis. Fifty-seven CIS members, family and friends enjoyed the 1<sup>st</sup> Base Suite Level Party Terrace on a beautiful Sunday afternoon. Unfortunately, the Indians lost 9-5, but the section was a winner with food, drink, and networking for all.



### 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 <a href="http://dlsemc.com/">http://dlsemc.com/</a>	See Advertisement on Page 7	Northbrook, IL
-------------------	--	-----------------------------	----------------

\*\*\*\*\*

### Central Indiana Engineering Web Links

ACEC	<a href="#">American Council of Engineering Companies, Indiana</a>	<a href="http://acecindiana.org">acecindiana.org</a>
ASCE	<a href="#">American Society of Civil Engineers</a>	<a href="http://inasce.org">inasce.org</a>
ASME	<a href="#">American Society of Mechanical Engineers</a>	<a href="http://sections.asme.org/central_indiana">sections.asme.org/central_indiana</a>
ASM-INDY	<a href="#">American Society for Metals - Indianapolis</a>	<a href="http://asm-indy.org">asm-indy.org</a>
CIECN	<a href="#">Central Indiana Engineering Consultants' Network</a>	<a href="http://indy-engineer.dnsalias.com">indy-engineer.dnsalias.com</a>
CINLUG	<a href="#">Central Indiana Linux Users Group</a>	<a href="http://cinlug.org">cinlug.org</a>
IHIF	<a href="#">Indiana Health Industry Forum</a>	<a href="http://ihif.org">ihif.org</a>
INCOSE	<a href="#">International Council on Systems Engineering</a>	<a href="http://incose-coa.org">incose-coa.org</a>
INDSPE	<a href="#">Indiana Society of Professional Engineers</a>	<a href="http://indspe.org">indspe.org</a>
INDYASHRAE	<a href="#">American Society of Heating, Refrigeration, and Air Conditioning Engineers</a>	<a href="http://indyashrae.org">indyashrae.org</a>
NSBE-IAE	<a href="#">National Society of Black Engineers - Indianapolis Alumni Extension</a>	<a href="http://nsbe-ip.org">nsbe-ip.org</a>
PIMCIC	<a href="#">Project Management Institute - Central Indiana Chapter</a>	<a href="http://pmicic.org">pmicic.org</a>
SAE	<a href="#">Society of Automotive Engineers, Indianapolis</a>	<a href="http://saeindiana.org">saeindiana.org</a>
Sciencetech	<a href="#">Sciencetech Club in Indianapolis</a>	<a href="http://sciencetechclub.org">sciencetechclub.org</a>
SIM	<a href="#">Indianapolis Chapter of Society for Information Management (SIM)</a>	<a href="http://SimNet.org">SimNet.org</a>
SWE-CI	<a href="#">Society of Women Engineers - Central Indiana Section</a>	<a href="http://swe-ci.com">swe-ci.com</a>
Techpoint	<a href="#">A diverse collection of technology-based Indiana industries.</a>	<a href="http://Techpoint.org">Techpoint.org</a>

+++++

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 (1<sup>st</sup> Year)**

Vacant

**Director (2<sup>nd</sup> Year)**

Phil Walter

(812) 223-6520

[Phil.Walter@ieee.org](mailto:Phil.Walter@ieee.org)**Chair**

David Koehler

(317) 441-2076

[David.Koehler@ieee.org](mailto:David.Koehler@ieee.org)**Vice Chair**

Stavan Dholakia

(215)-410-0092

[stavandholakia@ieee.org](mailto:stavandholakia@ieee.org)**Treasurer**

Tim Alt

(317)-230-6287

[tim.alt@ieee.org](mailto:tim.alt@ieee.org)**Secretary**

Jaeyong Park

(614)-558-6770

[pjyioey@gmail.com](mailto:pjyioey@gmail.com)**Power & Energy/****Industry Applications Societies**

Earl Hill

(317) 726-1236

[eshill@loma-consulting.com](mailto:eshill@loma-consulting.com)**Computer Society**

Joseph Benek

(317) 888-0611

[joseph.benek@wicom.com](mailto:joseph.benek@wicom.com)**Signal Processing Society**

Mimi Boutin

(765) 494-3538

[mboutin@ecn.purdue.edu](mailto:mboutin@ecn.purdue.edu)**Engineering in Medicine and Biology Society**

Jake Chen (Co-Chair)

(317) 278-7604

[jakechen@iupui.edu](mailto:jakechen@iupui.edu)

David Chartash (Co-Chair).....(317) 759-4204

..... [dchartas@ieee.org](mailto:dchartas@ieee.org)**Information Theory Society**

Benjamin Flecker

317.395.4997

[btflecker@gmail.com](mailto:btflecker@gmail.com)**Communications Society**

Xiaolong Li

(812) 237-3451

[Xiaolong.LI@indstate.edu](mailto:Xiaolong.LI@indstate.edu)**Central Indiana Engineering Consultants' Network (CIECN) Co-Chairs**

Brad Snodgrass

(317) 679-6194

[bsnodgrass@ieee.org](mailto:bsnodgrass@ieee.org)

Will Kassebaum

(317)-225-4126

[will.kassebaum@IEEE.org](mailto:will.kassebaum@IEEE.org)**Membership Development**

Earl Hill

(317) 726-1236

[eshill@loma-consulting.com](mailto:eshill@loma-consulting.com)**Professional Activities (PACE)**

Terry Frierson

(317)-838-1457

[terry.frierson@duke-energy.com](mailto:terry.frierson@duke-energy.com)**Newsletter Editor**

Helen McNally

(765) 494-7491

[mcnallyh@purdue.edu](mailto:mcnallyh@purdue.edu)**Communications Information Officer**

Bob Evanich

[b.evanich@ieee.org](mailto:b.evanich@ieee.org)

## Central Indiana Section Active Volunteers (cont'd)

**Women in Engineering**

Isabel Lujan

812.565.3777

[isabel.lujan@ieee.org](mailto:isabel.lujan@ieee.org)**Finance Committee**

Vacant

**Webmaster**

Bob Evanich

(317) 838-2268

[b.evanich@ieee.org](mailto:b.evanich@ieee.org)**GOLD Chair**

Diana Vasquez

(317) 340-5905

[dcvasque@ieee.org](mailto:dcvasque@ieee.org)**Constitution and Bylaws**

Yuetong Lin

(812) 237-3399

[lin.yuetong@gmail.com](mailto:lin.yuetong@gmail.com)**Historian**

Marvin Needler

(317) 845-5050

[mnpn@juno.com](mailto:mnpn@juno.com)**Pre-University/Student Affairs**

Brad Snodgrass

(317) 679-6194

[bsnodgrass@ieee.org](mailto:bsnodgrass@ieee.org)**IUPUI Student Branch**

Yao-Bin Chen

[ychen@iupui.edu](mailto:ychen@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**

Keith Hoover

[heath.e.hoover@rose-hulman.edu](mailto:heath.e.hoover@rose-hulman.edu)**Purdue University Student Branch**

Chih-Chun Wang

[chiHW@purdue.edu](mailto:chiHW@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.

## ***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](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! at the main site. ([www.cis-ieee.org](http://www.cis-ieee.org)) Check out the calendar of events,