

# THE REPORTER

Journal of the Central Indiana Section • IEEE

## Save the Date!

**Saturday, November 5, 2016**  
**2016 EnCON – Annual Engineering Conference**  
**7:00 am – 6:00 pm**  
**Holiday Inn Indianapolis Airport**  
**8555 Stansted Rd.**  
**Indianapolis, IN 46241**



## Register Today!

**For conference Registration & Information, please visit: <http://cis-ieee.org/EnCON>**

Conference Facebook page: <https://www.facebook.com/IEEECISEnCON/>



## IEEE- Central Indiana Section Presents 2016 EnCON—ENGINEERING CONFERENCE

**November 05, 2016**

**7:00 am - 6:00 pm**

**Holiday Inn Indianapolis Airport : 8555 Stansted Rd.  
Indianapolis, IN 46241**

**Latest Trends in  
Emerging Topics  
for Practicing  
Engineers,  
Students &  
Retired  
Engineers**

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Opening Session & Plenary Speaker			
Drone	Renewable Energies	Career	
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LUNCH			
Autonomous Vehicle	Power	Entrepreneurship	
Student Poster Award			
Networking & End			

**Receive DISCOUNT  
REGISTER NOW  
to Secure Your Spot!**

**For Conference Information & Registration**

**Please Visit: <http://cis-ieee.org/EnCON>**

**Conference Contact Info:**

**Bob Evanich:** [b.evanich@ieee.org](mailto:b.evanich@ieee.org) Phone # (317) 614-5744  
**David Koehler:** [david.koehler@ieee.org](mailto:david.koehler@ieee.org) Phone # (317) 441-2076

**EnCON— Engineering Conference provides participants with a unique learning experience with topics on the cutting-edge of technical innovation today.**

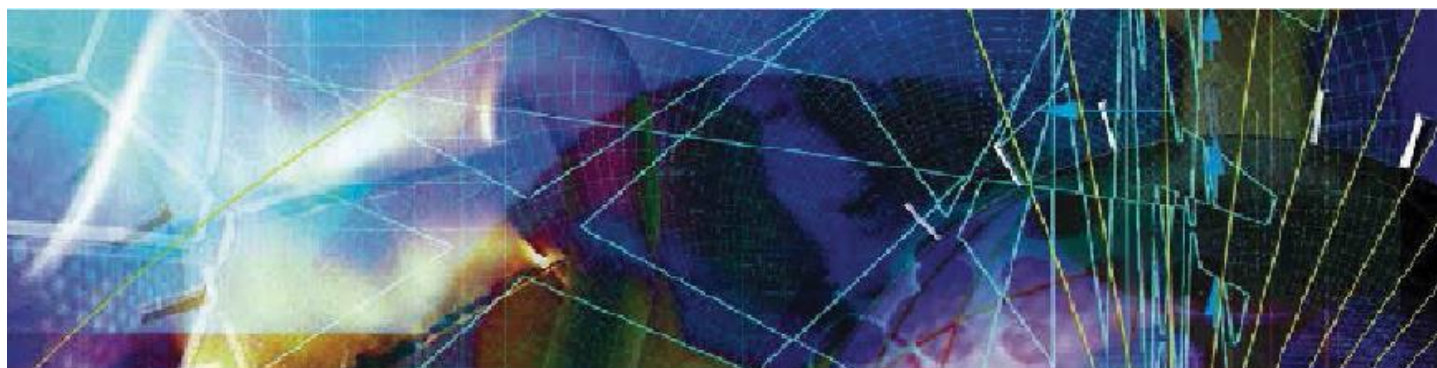
**This unique conference is not only geared towards practicing engineers, but also students and retired engineers. This is an excellent opportunity for networking, knowledge sharing and professional development.**

**The material will be presented by some of the industry leaders.**

**Whether you are just starting a career or have been practicing for many years, the program will give the attendees the skills necessary to find a job or help keep them competitive in today's ever changing business world.**

**Please join us to enhance your current knowledge and skill set and further your career.**





**SPONSORSHIP OPPORTUNITIES  
CENTRAL INDIANA SECTION IEEE  
EnCON 2016  
Engineering Conference**

**Date:**

**November 05, 2016**

**Time:**

**7:00 AM to 6:00 PM**

**Location:**

**Holiday Inn Indianapolis  
Airport : 8555 Stansted Rd.  
Indianapolis, IN 46241**

**Sponsorship Opportunities**

Contact: Bob Evanich  
[b.evanich@ieee.org](mailto:b.evanich@ieee.org)  
(317) 614-5744

*For conference information,  
please visit:*

**[www.cis-ieee.org/EnCON](http://www.cis-ieee.org/EnCON)**

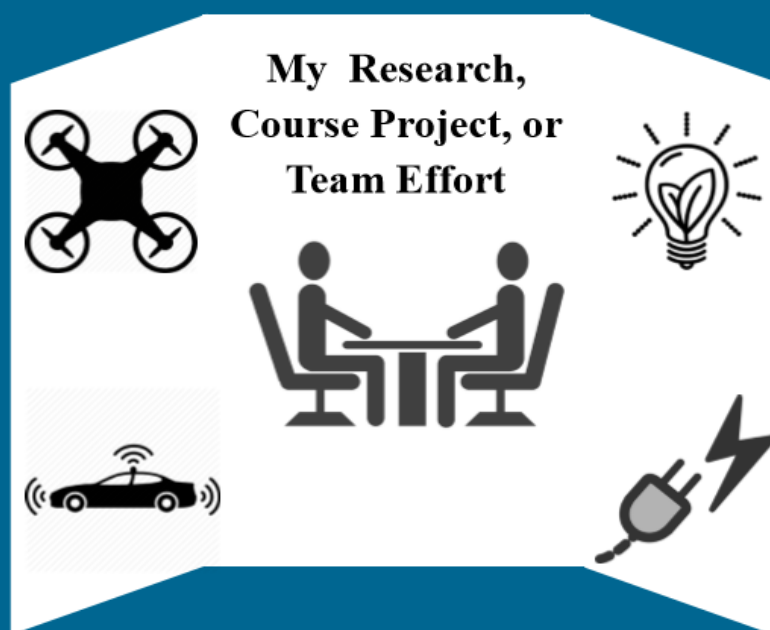
The Central Indiana Section IEEE is sponsoring a unique one day conference geared towards practicing engineers, students, and retired engineers. The material will be presented by some of the industry leaders. Two levels of sponsorship opportunities are available for those companies who want to showcase their product.

- **\$250 Sponsorship Level**
  - 1 Complimentary Registration
  - Company Name and Logo on Conference website
  - Company Name and Logo on conference materials
  - Exhibitor space
- **\$500 Sponsorship Level**
  - 2 Complimentary Registrations
  - Company Name and Logo on Conference website
  - Company Name and Logo on conference materials
  - Exhibitor space

Contact: Bob Evanich  
[b.evanich@ieee.org](mailto:b.evanich@ieee.org) or (317) 614-5744

**IEEE****2016 EnCON Student Poster Contest**

Student poster contest entrants need to prepare a 250-word abstract or design proof of a 36" by 48" academic poster by Friday, October 14. Email entries to [michael.r.hayashi@ieee.org](mailto:michael.r.hayashi@ieee.org). No limit to number of entrants per institution for either the undergraduate or graduate track. A panel of judges will decide the winners in each track.

**2016 EnCON Details***Date:* 5 November 2016*Setup:* 7:15 AM to 9:00 AM*Awards:* 5:00 PM to 6:00 PM*Location:*

Holiday Inn Indianapolis Airport

8555 Stansted Rd

Indianapolis, IN 46241

**Advancing Technology for Humanity****Additional details:****<http://cis-ieee.org/EnCON/>****Have questions?****[michael.r.hayashi@ieee.org](mailto:michael.r.hayashi@ieee.org)**

You should attend to:

- Learn about the latest topics
- Share your work
- Earn discounted conference registration
- Build your professional network

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**You Still Have Time to Get Tickets!**  
**Annual Central Indiana Section Baseball Outing**  
**Sunday June 26<sup>th</sup>**



Summer is here and our annual Indians Baseball outing is approaching fast. Bring your family and hang out with your fellow IEEE members while enjoying a catered lunch on the 3<sup>rd</sup> base executive level terrace and cheer for your Indianapolis Indians as they take on the Buffalo Bisons.

The gates open at noon, the game starts at 1:35pm and goes till it's over (average professional baseball game lasts 2 hours and 50 minutes). Lunch is laid out between noon and 12:30 and is usually left out for a couple of hours. Included drinks (water, soda, & beer) are available from noon until the game ends. Other alcoholic beverages can be purchased up until the end of the 7<sup>th</sup> inning. Your tickets will be available under your name at Victory Field's will-call window on the day of the game.

**[Register Here!](#)**

**Hope to see you at the game!**



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

Diana Vasquez, Chair, PES/IAS/PELS  
Ben Huckaba, Vice-Chair, PES/IAS/PELS  
Gary Rhodes - Secretary, PES/IAS/PELS  
Jerry Hohn - Treasurer, PES/IAS/PELS  
Mike Darnell - L31 Office, PES/IAS/PELS

The May meeting was on Electrical Utility Cyber-Security. Maurice Martin, Senior Technology Leader at the NREL, spoke about the rapid increase in distributed generation in the United States has elevated the importance of cybersecurity in the electric sector. This is because distributed generation sources are often located in unmanned facilities with limited or no physical security. Hackers can have unfettered physical access to these resources and could potentially launch cyber-attacks by either tampering with the intelligent systems on the distributed generation sources or attaching a peripheral device laden with sophisticated malware to disrupt operations. The traditional cybersecurity controls such as firewalls, access control lists, encryption, authentication and authorization do very little to block such attacks. This is because the hacker becomes an “insider threat” when he/she physically accesses the distributed generation source and launches attacks from a trusted node in the power network. A systemic view of cybersecurity is needed in this situation to identify anomalous behavior and block it before it can disrupt operations. This presentation will offer an empirically validated 9-layer security architecture for power systems developed at NREL that has the potential to mitigate the risk from physically and logically compromised distributed generation sources on the electric grid.

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### 2016 WAG Open House Recap

#### Event Description

Have you heard about the Women's Affinity Group (WAG), but want to get more details?

Are you new to Cummins and wondering how to get involved?

Were you a member of WAG at another location and want to continue in Columbus?

If this sounds like you, or if you just have a general interest in the Women's Affinity Group, join us at the 2016 WAG Open House.

Members from each of the WAG committees will be available to talk about our current initiatives and answer any questions. It's the perfect atmosphere to hear about our group, network and learn about how to get involved.

Thank you Isabel Lujan for promoting IEEE at the event!



## Call for Nominations

It is time to begin taking nominations, including self-nominations, for the Central Indiana Section Officers for 2017. The 5 section-wide voting officer positions are:

**Chair**  
**Vice-Chair**  
**Secretary**  
**Treasurer**  
**Student Activities Chair / Student Branch Representative**

Typically, the current Vice-Chair moves into the Chair position. However, our current Vice-Chair is leaving the section this month leaving both positions potentially open.

With the exception of the Student Branch Representative, each member of the Section Committee shall be an IEEE member, in good standing, of Graduate Student Member, Member, Senior Member or Fellow grade. For more information on the position responsibilities see the [IEEE MGA Operation Manual](#), Section 9, Chapter 4, Paragraph F, or visit the [IEEE Center for Leadership Excellence](#), look under Volunteer Position Training, and view the training module for the officer position.

**Send all nominations or inquires to Phil Walter ([phil.walter@ieee.org](mailto:phil.walter@ieee.org))**

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## Call for Volunteers

The IEEE Central Indiana Section is always looking for energetic members that have a little time to help their section and community. We currently have the following Executive Committee positions open:

**Computer Society Chapter Chair**  
**Young Professionals Chair**  
**Section Vice Chair**  
**Membership Development Chair**

If you have an interest in volunteering for any of these positions, would like more details on the positions, or want to help serve your local IEEE Section in any other capacity, please contact Phil Walter, Section Director and Nominations Chair at [phil.walter@ieee.org](mailto:phil.walter@ieee.org).

Volunteering can also be a good resume builder and as always, thank you for volunteering!!



## Purdue IEEE Remotely Operated Vehicle (ROV) Team



### PURDUE STUDENTS TO VIE FOR FIRST PLACE IN THE MATE INTERNATIONAL ROV COMPETITION

Purdue IEEE ROV is an eight-year-old team of diverse Purdue students that competes in the Marine Advanced Technology Education (MATE) Center's International Remotely Operated underwater Vehicle (ROV) Competition. The team has designed ROV *Maelstrom*, a top-notch ROV that is expected to produce top results.

The competition challenges students to create a vehicle that can complete underwater missions. ROVs are used throughout the world to conduct scientific studies, assist petroleum extraction, observe marine ecosystems, and retrieve items of interest underwater among other tasks in oceans and lakes. This year's competition is being held at NASA's Neutral Buoyancy Lab in Houston, Texas from June 23-25.

MATE has created a mission profile based off of real-life ROV needs. The mission, *From the Gulf of Mexico to Jupiter's Moon Europa*, consists of both simulated underwater activities in the Gulf of Mexico and under the ice of Jupiter's moon, Europa. This mission will test ROV *Maelstrom* and the team's ability to determine the qualitative attributes of the environment and objects of interest, survey underwater terrain, retrieve mission-critical items, conduct servicing of an underwater communications hub, secure a wellhead, and collect samples to be analyzed.

*Proven Robotics*, the chosen company name of the team for the competition, has designed a specialized claw, a sonar positioning system, an ergonomic pilot-interface system, an open-loop hydraulics system, and more. Through careful planning and painstaking design meetings, the team has created an exceptional ROV that will execute each task safely and speedily. The team designed, manufactured, and constructed the vehicle themselves with minimal use of external resources, an impressive feat considering how few of the competing teams go to this length. The modeling of the frame with CAD tools and subsequent water jetting, the software composition, and the design and population of printed circuit boards (PCBs) were all accomplished by the students. Team veterans have passed on their experiences to the newer members throughout the year, fostering growth and a smoother process towards competition day. ROV *Maelstrom* is a product of the team's hard work and dedication.

None of this could have been possible without the support of our sponsors. The Purdue IEEE ROV Team would like to give special thanks to the Purdue Office of the Provost, the Purdue Engineering Student Council (PESC), and the Indiana Space Grant Consortium (INSGC) for their support that makes Purdue IEEE ROV an international competitor.

For more information about the Purdue IEEE ROV team visit [www.purdueieee.org/committees/rov/](http://www.purdueieee.org/committees/rov/) or contact the COO Sanay Shah at [shah196@purdue.edu](mailto:shah196@purdue.edu).

For more information about the MATE ROV competition, visit [www.marinetech.org/rov-competition/](http://www.marinetech.org/rov-competition/) or contact Jill Zande at [jzande@marinetech.org](mailto:jzande@marinetech.org)



## **Guest Lecturer and Author of Latest EMC Design Book Joins D.L.S. Teaching Team for October Seminar**

Michel Mardigan, principal author of *Controlling Radiated Emissions by Design*, will be joining Donald L. Sweeney and staff in teaching the October 4-6, 2016 *EMC By Your Design* seminar in Northbrook, Illinois. The instructors have more than 100 years of combined EMC experience.

Michel, an IEEE Senior Member, has worked as an EMC Specialist for IBM and was the French delegate to the CISPR Working Group, which became CISPR 22, the root document for FCC 15-J and European EN55022. Michel has taught EMC seminars in the U.S. and worldwide to thousands of engineers and currently is a private consultant in France. He has written numerous books and papers on EMC. A major project he was involved with was the EMC for the English Channel Tunnel.

*EMC By Your Design* is a practical applications seminar and workshop consisting of lectures, discussions, a hands-on-workshop, a large notebook of slides, take-home proprietary EMC design software, and individual design evaluations of your product. You will also receive an autographed textbook, *Controlling Radiated Emissions by Design* by Michel, with contributions by the D.L.S. teaching team.

For more information, visit <http://www.dlsemc.com/emcdesignseminar> or call 847-537-6400



**EMC By Your Design**  
*An EMC Practical Applications Seminar and Workshop*  
**Tues. Oct 4 – Thurs. Oct 6, 2016**  
**Northbrook, IL**  
(Register by Sep. 13, 2016 to receive \$300 discount)

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**A “Boot Camp” Experience in Sustainable / Alternative Energies  
at Rose-Hulman Institute of Technology  
hosted by: Rose-Hulman PRISM**



hosted by

**ROSE-HULMAN**  
INSTITUTE OF TECHNOLOGY



PRISM has been given the opportunity to work with STEM Teach, a grant from the STEM Teacher Recruitment Fund established by the Indiana General Assembly. The funding is coordinated through the Independent Colleges of Indiana and administered by the Center for Excellence in Leadership of Learning.



From July 10<sup>th</sup> – July 15<sup>th</sup>, Rose-Hulman PRISM will offer the *Sustainable Alternative Energies Bootcamp* on the RHIT campus. This is a residential program for up to 14 Indiana High School Science (Earth/Space Science, Physics, Chemistry, Biology), Agriculture and pre-Engineering teachers interested in learning content knowledge, pedagogy, and practical applications of sustainable alternative energies. Topics covered intensively during the boot camp include: current state of energy and production (including the U.S. power grid / distribution systems and development of a “Smarter Grid”), solar technologies, wind energy, coal gasification and integrated combined cycle power plants and lighting and energy conservation.



Participants will be immersed in classroom content specific instruction provided by Rose-Hulman Mechanical Engineering faculty during the first part of each day. Following the classroom instruction, participants will do lab activities that they will be able to incorporate in their own classrooms. Each afternoon of the boot camp, participants will be taken on field excursions to power production facilities in West Central Indiana. These site visits include: Duke Energy Cayuga Power Station, NIPSCO Combined Cycle Power Plant, IND Solar

Farm, One Planet Solar and Wind, POET Biodiesel and Duke Energy Edwardsport Coal Gasification / Combined Cycle Power Plant.

Additionally, each participant will receive a Chromebook upon completion of the workshop. Each participant will be asked to build an online resource of digital materials on the PRISM Moodle LMS. Moodle instruction and training will be provided by the PRISM staff during the boot camp. Interactive digital online resources will be available to course participants on the PRISM website.

The PRISM Team consists of Pat Carlson, Bob Jackson, Ashlee Scherwinski, and Ryan Smith. For additional information, please contact Ashlee Scherwinski at [scherwin@rose-hulman.edu](mailto:scherwin@rose-hulman.edu).



## 2016 Meeting Calendar

Date	Host	Subject	Location
Monthly	CIS	Executive Committee Meetings	Internet/Phone Bridge
Weekly	CIS EnCON	EnCON Committee Meetings	Internet/Phone Bridge
June 16	CIS-IEEE	Networking Dinner	Ball State University, Muncie, IN. BC Building
June 26	CIS	Annual Baseball Outing	Victory Field
Nov 5	CIS	Engineering Conference	Holiday Inn, Indianapolis Airport
... Check the <a href="#">Section web page</a> for details and current information.			

## ADVERTISER EVENT

October 4-6, 2016	DLS: <a href="http://dlsemc.com">dlsemc.com</a>	See Advertisement on Page 10	Northbrook, IL
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## Central Indiana Engineering Web Links

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

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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, Rose-Hulman Institute of Technology, IUPUI, Ball State and Indiana State

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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 25th of the month to submit their updates.

Copy should be submitted electronically. Photographs are desirable. Advertisements are welcome. Contact the editor, Henry Shi for layout sizes and rates at [shi206@purdue.edu](mailto:shi206@purdue.edu).

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## *How Do You Communicate??*

### Follow Section Social Media

Want to know what is happening in Central Indiana Section? Don't know where to look? Already inundated with eNotices? 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



- Conference Facebook Page: 2016 IEEE-CIS EnCon Conference & Workshop  
<https://www.facebook.com/IEEECISEnCON/>
- Section Facebook Page: IEEE - Central Indiana Section  
<https://www.facebook.com/IEEE-Central-Indiana-Section-1426165320970908/?fref=ts>
- WIE Facebook Page: IEEE - CIS Women in Engineering  
<https://www.facebook.com/IEEE-CIS-Women-in-Engineering-223901364430386/?fref=ts>
- Student Branch members are encouraged to join "IEEE Region 4 SAC":  
<https://www.facebook.com/groups/r4sac/>
- IEEE's own Social network provides participants with professional and technical networking opportunities in and around Indianapolis.  
<https://ieee-collabratec.ieee.org/app/community/54/activities>



#### 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.

#### Conference Page

- Check Out Conference details: Program Overview, Workshop Info, Speakers, Student Poster Contest and Registration Info : (<http://cis-ieee.org/EnCON>)
- 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

#### eNotices

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

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