

THE REPORTER

Journal of the Central-Indiana Section • The Institute of Electrical and Electronics Engineers, Inc.

IEEE Baseball Game & Picnic 2007



The Picnic and Indians game on Friday, August 24th was a good time for all. About 155 IEEE members and their families were in attendance for this evening game to be followed by fireworks. The weather was hot and balmy with a threat of thunderstorms. After the picnic and about five innings or so the natural fireworks began. Many stalwart members remained as the field was covered and we hunkered down to wait out the storm. After a half hour or more, the rain finally started moving off and the field could be uncovered and the game rejoined. The Indians were behind by one and although they had several spectacular plays that could have turned the tide, in the end the Toledo Mud Hens won the day. The game was followed by music and fireworks. We counted the evening an enjoyable outing and successful event for all who attended. If you missed the game this year, keep it in mind for next year. We look forward to doing this again next summer. (go to p. 7 for more photos)

Upcoming Events

- Oct 16 Fall Short Course #1- Predictive Maintenance for Power Delivery Equipment, General overview of substation equipment predictive maintenance IP&L Safety Room, 6:30-8:30 p.m.
- Oct 23 Fall Short Course #2- Predictive Maintenance for Power Delivery Equipment, Detailed discussion on major equipment testing, IP&L Safety Room, 6:30-8:30 p.m.
- Oct 30 Fall Short Course #3 - Predictive Maintenance for Power Delivery Equipment, Oil quality analysis, the dangers and solutions to corrosive sulfur in dielectric transformer oil, IP&L Safety Room
- Nov 6 Fall Short Course #4- Predictive Maintenance for Power Delivery Equipment, Dissolved Gas Analysis - DGA, IP&L Safety Room, 6:30-8:30 p.m.
- Nov 7 CIS-IEEE Annual Banquet, Gerald Jakubowski, President of Rose-Hulman Institute of Technology will be the keynote speaker

Central Indiana Section Annual Awards Banquet

Wednesday, November 7, 2007 at the Ritz Charles

It's that time of year again. The hot, muggy Indiana summer, Labor Day; baseball, and just having fun. But it is also the time to start thinking about whom you would nominate for an award. Do you have any one in mind who deserves to receive an award? Nominations are due September 30. The Central Indiana Section has three awards that are presented at the annual Awards Banquet: Engineer of the Year, Member of the Year, and new Senior Member. The seventh annual awards banquet will be at the Ritz Charles on November 7, 2007 and Rose-Hulman Institute of Technology's President Gerald Jakubowski is the keynote speaker.

The Engineer of the Year award is based on contributions in technical areas, patents, and designs. The Member of the Year award is based on a member's service contributions; for example: holding an officer's position in the section; leading a project or planning an event that benefited the section, as well as other community projects that are not specifically IEEE related. Engineer and Member of the Year are nominated award, but you can nominate yourself. Those members who have achieved Senior Member status in the last year (November 2006 – October 2007) will be recognized at the banquet and will be presented with the Senior Member Pin.

Nominations for Engineer of the Year and Member of the Year must be submitted/postmarked no later than 30 September 2007. The submission can be in electronic format to astiller@ieee.org or sent by postal mail to CIS-IEEE Awards Committee, c/o Alan Stillerman, Awards Chairman, 11213 Stratford Dr. N., Fishers, IN, 46038. Additional details can be found at <http://www.cis-ieee.org/awards>.

VOTE!

2007 Annual Election Ballot

Ballots due by Nov. 1, 2007

2007 Annual Election Ballots have been mailed. You can submit vote via mail or online. To vote online using the "Control Number" and "E-signature" on the ballot that you received from the IEEE via mail, visit <https://www.directvote.net/ieee> To be counted, a submission must be arrive prior to 12 o'clock noon, Central Time USA on November 1, 2007. For central Indiana, there is an election for IEEE President-Elect, 2008, IEEE-USA President-Elect, 2008, and IEEE-USA Member-at -Large, 2008-2009. For information on the candidates, visit: <http://www.ieee.org/web/aboutus/corporate/election/2007candidates.html> For information about the election, go to: <http://www.ieee.org/elections>

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Editorial Policies

Each issue of The Reporter references three months - the month in which it is published and the following two months. The Reporter is not published in June, July, and August because there are generally fewer meetings held during the summer months.

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 monthly updates. If no update is received for that month, only the mission statement and contact information will be published for that entity.

Copy should be submitted electronically. Photographs are most desirable and may be submitted in electronic format or color, black-and-white glossy, or Polaroid. Please note that black-and-white photographs reproduce best. Advertisements are welcome. Contact the editor for layout sizes and rates.

Applications in Forensic Engineering

Power Engineering Society / Industrial Applications Society

Professor Bill DeWitt of Purdue University will speak on Applications in Forensic Engineering. Bill DeWitt has been Professor of Electrical and Computer Engineering Technology at Purdue University since 1993. Before joining the Purdue faculty, he was in private practice for six years and worked for the federal government for 13 years. He is a senior member of IEEE and a fellow and past president of the National Academy of Forensic Engineers (NAFE). Bill is a registered professional engineer in five states.

The title of Bill's presentation is Applications in Forensic Engineering. From an engineering perspective, forensic engineering deals with the investigation and reconstruction of failures in buildings, structures, vehicles, and other engineered systems. From a legal perspective, forensic engineering is a fact-finding mission to determine the most probable cause or causes of a failure and the party or parties responsible. The meeting will be held at the Indianapolis Power and Light Safety Room, 1230 Morris Street, Indianapolis, (6:30-8:30 p.m.).

* * *

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investigate



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Central Indiana Section Wants You!!!!

This is a call for volunteers to serve on the Executive Committee. As a volunteer organization we are only as good as the people that represent us. Are you one of them? We need you. Open nominations are quickly coming to a close. I need to have your letter of intent to run for office no later than midnight of September 14, 2007.

The following positions (and terms) need to be filled: Chairman, 1 year; Vice Chairman, 1 year; Treasurer, 1 year; Secretary, 1 year; and Director 2, years. A Vice Chairman and a Treasurer candidate are needed. In order to be a Director, you must have been a Section Chairman at some time with your involvement in IEEE. Only one Director is elected each year. Information about each position can be found in the Central Indiana Section by-laws at, <http://www.cisieee.org/bylaws.asp>. This is your chance to make a difference in how your Central Indiana Section is run: what activities, tours, and presentations that the Central Indiana Section does.

On September 14, the slate of candidates will be presented to the Section. From September 14 through October 12, any member can petition to be on the ballot by turning in a petition with 25 signatures. If there is more than one person for any position an electronic voting session will be held on October 31. If only one person signs up for a position, then the Executive Committee will affirm that candidate by proclamation. All winners of the election will be notified prior to the Annual Awards Banquet on November 7, at the Ritz Charles. So come to the Annual Banquet and meet the new officers for 2008.

If there are any questions or if you intend to run for a position send e-mail to astiller@ieee.org

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CALL FOR VOLUNTEERS and a Linux Instructor ITT Technical Institute Electronics Program Advisory Committee

ITT Technical Institute is looking for members to serve on Electronics PAC (Program Advisory Committee). The committee meets twice a year and make recommendations to topics that should be added or expanded in the curriculum at ITT.

ITT is also looking for an Linux Instructor. The candidate should have a Masters Degree in Computer, or Masters Degree in Electronics, Mechanical Engineering and 15 hours credits in programming. Some of these credit hours should be from a Linux course (or similar job experience). Interested parties should contact Mohammed Boudaia at <mailto:MBoudaia@itt-tech.edu> at ITT Technical Institute (317)874.0747. Mohammed Boudaia, ET School Chair, ITT Technical Institute, School of Electronics, 9511 Angola Court, Indianapolis, IN 46268

Power Engineering Society / Industrial Applications Society Autumn Short Course

The PES/IAS fall short course will be held at the IP&L Safety Room, 1230 W. Morris Street, from 6:30 to 8:30 p.m., on Tuesday Oct. 16, 23, 30, and Nov. 6. The following speakers will be presenting:

Oct. 16 Larry Rudolf, of Indianapolis Power & Light, will provide a general overview of substation equipment predictive maintenance. His talk will cover: Maintenance Definitions, Maintenance Strategies, General Guidelines for Predictive Maintenance, Substation Condition Monitoring, PdM for Power Transformers, PdM for Power Circuit Breakers, and PdM for other Substation Equipment.

Lawrence B. Rudolf, P.E. (Larry), received his Bachelor of Science in Interdisciplinary Engineering degree from Purdue University, and his Masters in Business Administration degree from Anderson University. Larry has been employed at Indianapolis Power & Light Company, an AES Company, since 1973, and is currently a Principal Engineer in the Power Delivery Organization's Projects and Contracts Group, where he directs Asset

Management for the utility's electric substations and network equipment. He also provides substation maintenance consulting services for a number of the AES Corporation businesses globally. Larry has been involved with electric substation maintenance since 1984, and has been an active contributor on several of the Doble Engineering Client Committees. Larry is a licensed Professional Engineer in the state of Indiana.

Oct. 23 Alan Holt of Premier Power will provide a detailed discussion on major equipment testing. During the session all aspects of transformer and circuit breaker testing will be covered (except oil testing). Particular attention will be paid to life extension methods for both transformers and breakers. Various test methods will be discussed as well as the reason for the test and interpretation of the data. Emphasis will be placed on new technology testing methods.

Alan is a licensed professional engineer in the states of Indiana, Kentucky, Ohio and South Dakota. He has a B.S. in Electrical Engineering Technology and a M.S. in Interdisciplinary Engineering from Purdue University. Alan's working career includes twenty-nine years at Indianapolis Power & Light Company (IPL) in various engineering, operations and supervisory functions. Since his retirement from IPL, he has worked for various electrical contractors and is currently employed as the Manager of Operations / Chief Engineer at Premier Power Maintenance Company in Indianapolis. Alan's certifications include: NICET certified Engineering Technologist, OSHA Certified Construction Outreach Trainer, Master Electrician License, City of Indianapolis.

Oct. 30 David Koehler of Weidmann-ACTI, Inc will speak on oil quality analysis. Monitoring insulating fluids can help users determine if the fluid can do its job, or if maintenance/replacement is needed. A number of different tests can be applied to the fluid to determine its properties and health.

David Koehler has over nine years of experience working in management roles for Weidmann-ACTI, Inc. Currently David is responsible for managing Weidmann-ACTI's labs in Indianapolis and Philadelphia. David has a Bachelor's degree in Chemistry and an M.B.A. David has been involved with ASTM D27 committee meetings and has helped work to enhance and develop testing standards. David is also a member of IEEE.

Nov. 6 Rick Youngblood will discuss Dissolved Gas Analysis (DGA). DGA as most persons know it is totally comparable to blood tests for human health but in this case, helps determine the life of any electrical device using oil as a dielectric or coolant. Oils are made of two major components, Carbon and Gas that form together to create molecules of hydrocarbon gases such as Hydrogen, Ethane and Acetylene and become liquid in form. These gases return to their natural state under certain conditions due to operating parameters of the equipment, some conditions normal, and some unhealthy. By performing DGA and Oil quality tests, the overall health of any equipment can be determined and decisions as to when maintenance and or testing can be made. Since the inception of DGA, millions of dollars have been saved by preventing unexpected equipment failures.

Rick Youngblood graduated from Indiana State University in 1973 after leaving active duty from the Air Force. Rick joined Cinergy Corporation in 1982 then known as Public Service of Indiana as an entry level engineer

(PES/IAS Autumn Short Course cont'd)

working in their Electric Shop. Rick was promoted to Project Engineer after receiving his BSEE from Purdue University in 1985. In 1987 Rick became the Manager of Technical Services in their Northern Division responsible for Construction, Maintenance, and Metering. . After merging with Cincinnati Gas and Electric and forming Cinergy Corporation, Rick was promoted to Senior Engineer and transferred back to their headquarters where he was responsible for implementing Cinergy's CMM System and creation of their Predictive and Preventive Maintenance Programs. In 2000 Rick was promoted to Supervising Engineer for Substation Services where he remained until taking early retirement in 2004.

Rick joined American Electrical Testing Company in August of 2004 as Regional Manager heading up their Midwest office located in Indiana where after obtaining his NETA 3 certification now performs maintenance and testing in both utility and industrial environments.

Baseball Game and Picnic (cont'd)



A view from the CIS-IEEE picnic seating area



Looking toward the site of the new Lucas Oil Stadium from the CIS-IEEE seating area. (compare this view with the one from the September 2006 issue of The Reporter showing the construction progress)



Watching the game are two very famous baseball fans wearing their CIS-IEEE polo shirts – Will and John Kassebaum

(all photos courtesy of Will Kassebaum)

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Participants may bring a product of their choice for a free 45-minute individual consultation, during which they will have the opportunity to apply the concepts they have just learned. Special pricing in effect until September 25, 2007. To register call Carol at 847-537-6400 or email her at cgorowski@dlsemc.com. For more information visit <http://www.dlsemc.com/class301.htm>. Submitted by Marilyn Sweeney, D.L.S. Electronic Systems, Inc., 1250 Peterson Drive, Wheeling, IL 60090.

Growing the Central Indiana Section TISP Initiative

On June 29-30, Central Indiana Section hosted a Teacher In-Service Program (TISP) workshop to train new TISP Champions. TISP Champions are responsible for establishing, planning, and maintaining a TISP in their selected school systems. Two more CIS members have accepted the TISP Champion challenge. New Champion Dave Peter will be working with Anderson Community Schools. New Champion Deborah James will be working with Indianapolis Public Schools and Pike Township.

New Champions spent Friday evening of the workshop learning tips and tricks to establishing and conducting a successful TISP. Later, Dave and Deborah tried to "Design and Build a Better Candy Bag," one of the most popular TISP Lessons.

On Saturday, teachers from around the state were invited to experience a TISP presentation and give the brand new Champions a venue to practice their new skills. Teachers and Volunteers were also treated to a tour of the Warren Robotics work area and got to see the FIRST Robots built by the Warren Central team over the last few years.

Thanks to all of the volunteers and support that made this training possible. Let's all support Deborah and Dave as they develop TISP presentations for their school systems.

To date, Central Indiana Section has conducted seven TISP presentations for Brownsburg Challenger Center, Pike Township, Washington Township, and Warren Township.

To learn more about the CIS TISP initiative, contact Brad Snodgrass at bsnodgrass@ieee.org. Please join the CIS TISP Volunteers Yahoo Group and share your TISP successes. See the Yahoo Group at http://groups.yahoo.com/group/cis_tisp_vols. Contact Brad for a membership invitation.

Central Indiana Section Helps Train Teachers in Math, Science and Engineering Concepts

Volunteers from your Central Indiana Section helped in two different teacher training exercises held at IUPUI this summer. The first workshop was a joint venture between IUPUI and Washington Township. The Washington Township program has allowed about 100 teachers to attend summer training over a three year period involving increasing math, science and engineering awareness in their classroom. The 2007 workshops served about 40 participants.

The Central Indiana Section volunteers, along with Doug Gorham from IEEE National led two activities: "Build a Better Candy Bag" involves concepts of area, volume, measurement and materials while participants use thin plastic, string, tape and assorted other office supplies to design a bag that will hold the maximum weight in candy. Students (or in this case, teachers) go through a problem solving process before implementing their designs, then design and test their weight in candy. If these student-engineered bags hold their maximum volume in candy, decorative stones are used to try to test the bags to failure. The winning candy bags routinely hold in excess of 6 pounds of candy! The spirit of competition is great, and teachers gain experience in a hands-on, more real-world technique to explain measurement, area and volume instead of presenting by simply using formulas on the board.

The second activity involved building mobiles to look at rotational equilibrium. The mobiles are built from strips of balsa wood or dowel rods, string and suspended weights such as pennies glued to posterboard circles. Students from 1st through 12th grades can learn different mathematical concepts from these activities: younger children can study balance while older students can solve equations to find where the center of gravity would be, given weights and distances.

The second workshop was a kick-off for a joint venture with Indianapolis Public Schools. Ten teachers worked through both activities with plans to take these into their classrooms. Susan White, a sixth grade teacher for IPS, wrote and said "We worked on measurement, and did the candy bag project. Students have researched, designed, and tested their prototypes. Talk about excitement. We "paid" the winners in candy (over 7 pounds). Students were so excited that we are holding a second, redesign competition within each grade level. I am not sure who had more fun - the kids or us!"

Both of these activities are designed to be very inexpensive: the total cost for fifty teachers for both activities, including purchasing equipment they may already have in the classroom was about \$300. Teachers were welcome to take all remaining supplies back to their classroom for the upcoming school year.

While the group had fun, the main point was to stress the need to get students excited about math, science and engineering concepts. Once these simple activities are integrated into the classroom, children should be able to relate real world examples to their classroom concepts.

Need more information?

Complete **lesson plans** tied to national educational standards can be found on the IEEE Web site for the Teacher in Service program. A new site, tryengineering.com, has many resources for teachers and students alike. Please share with any interested teachers: **www.tryengineering.com**

Need a small amount of **financial assistance** (for a teacher)? The IEEE-USA Precollege Education Committee offers small rewards/grants for teachers for innovative programs, such as introducing one of these plans into the classroom. Please see their website for more details:

<http://www.ieeeusa.org/volunteers/committees/pec/index.html>

This site also has a link to a **Teacher / Engineer Partnership award** for innovative programs where a teacher and engineer worked together. If you know of such a team, please let Ken Reid (reid@ieee.org) know.

Finally, a paper was presented at the American Society for Engineering Education national conference in 2007. For more details on the Washington Township program, please see:

<http://www.asee.org/acPapers/AC%202007Full1414.pdf>

If you are interested in helping or have any questions, please feel free to contact Ken Reid at reid@ieee.org.

Central Indiana Section Volunteers become “Experts”

Two Central Indiana Section volunteers are the newest Experts on TryEngineering.org, a website sponsored by IEEE. “Ask an Expert” is a forum for students to ask questions about engineering principles, becoming an engineer, types of engineering disciplines, or just about any other topic related to engineering. New questions are distributed among the Experts to be answered. Approved answers are posted to the Web page, where they are available to all users.

Brad Snodgrass has been answering questions for students considering an Engineering education – what types of classes to take in high school, what interest areas are best suited, typical tasks and project for various kinds of engineer, etc.

Karl Huehne’s questions have dealt with: how a transistor works, how to become a teacher of electrical engineering, suggestions for a student level engineering project, the benefits of engineering to the world, and if a non-traditional student is too old to consider a career in engineering.

For more information on Ask an Expert, point your browser to TryEngineering.org. If you are interested in volunteering for this activity contact Brad Snodgrass at bsnodgrass@ieee.org.

* * *

ICES (Indiana Council of Engineering Societies)

The organization was formed officially in May and has been meeting monthly.

Its goal is to provide a way for member organizations to cooperate and create a forum for engineers across disciplines to work together on our common missions:

- 1 - service to our members
- 2 - promoting engineering in education and as a career
- 3 - create a forum for exchange of ideas and collaboration between engineering societies for the common good.

There is a Yahoo Web Group for the volunteers to use, but no public website yet.

The plans are to integrate volunteers from all the ICES member organizations to put on three events in 2008.

- 1 - Engineers Week - Likely the Children's Museum event that IEEE sponsors.
- 2 - A picnic in the spring for Graduating Engineers to mix and mingle with the professional organizations
- 3 - A member banquet that could draw a high profile speaker sometime later in 2008.

* * *

Central Indiana Engineering Consultants' Network (CIECN)

Steering Committee: Earl Hill, Will Kassebaum,
Duane Mattern, Richard Pfile, Brooks Reed, Ken Shafer

CIECN Steering committee is planning to meet during the 1st week of September to plan a schedule including a series of fall meetings and possibly a joint meeting with the CIS-IEEE Computer Society. Suggestions and volunteers are welcome to contact Will Kassebaum or Duane Mattern. Keep your eyes on the CIS-IEEE website or your email meeting announcements for details and updates.

Q & A with Brad Snodgrass, CIS-IEEE Student Activities

What is a Teacher In-Service Program (TISP)

Q: What is an In-Service Day?

A: Teachers get a number of days during the school year that are reserved for training. These days are called In-Service Days. On these days, the students are sent home early, and the teachers stay in service. Training sessions are provided by the school system, by organizations paid to train, and by volunteer organizations.

Q: What is the IEEE's TISP?

A: IEEE has developed a number of lesson plans to be presented during a **Teachers In-Service Program (TISP)**. IEEE Volunteer Champions in each community present these lessons and describe IEEE resources, free of charge to the school system.

Q: What is an IEEE Volunteer Champion?

A: IEEE Volunteer Champions are special volunteers. They have taken the responsibility of "selling" the TISP into a school system, and then preparing and presenting the lesson and associated materials.

Q: Why are we targeting Teachers?

A: One IEEE Volunteer in a classroom can reach 25-30 students. One IEEE Volunteer training only 10 teachers can reach 250-300 students. This not only leverages our volunteers to more students, but also breaks down a barrier that many teachers have accessing Science and Engineering related lesson material.

Q: Why is this so difficult?

A: IEEE Volunteer Champions give an open-ended commitment to work with their target school system until they get added to the In-Service schedule. Every school handles In-Service days differently, so each path to the TISP is unique.

Q: How can I become a Champion?

A: Central Indiana Section is forming a seminar on June 29-30 to train new Champions. Champions will give a 4 hour commitment on Friday evening, and another 4 hours on Saturday morning. Champions need to already have a school system in mind and can invite teachers from that school system to the Saturday session, where they will see a TISP lesson presented.

Q: Why bring a teacher with me to the training?

A: Champions need allies in the school system. By "pre-training" a few teachers, you get word-of-mouth marketing inside the school, making your job of getting on the In-Service schedule easier.

Q: How do I get involved?

A: Contact Brad Snodgrass at bsnodgrass@ieee.org to get added to the seminar. New Champions need to have a school system in mind before signing up. If you want to invite a few teachers too, so much the better.

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
CINLUG	Central Indiana Linux Users Group	cinlug.org
IBEN	Indiana Biomedical Entrepreneur Network	indianabionetwork.org
IHIF	Indiana Health Industry Forum	ihif.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.saesections.org/indiana/
Scienteck	Scienteck Club in Indianapolis,	scienteckclub.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

2007 Meeting Calendar

Date	Host	Subject	Location
Thur Sep 12	Techpoint	Network Solutions, Network Security Seminar	South Bend, IN
Mon Sep 17	ASME, ASM	Joint ASME, ASM meeting	tbd
Thur. Sep 20	ACEC indiana	Third Annual Environmental Business Conference	Holiday Inn Select North, Indianapolis
Thur Sep 20	INDY ASHRAE	2007 Annual Golf Outing	Ironwood Golf Club
Mon Sep 24, noon	ScienTech Club	Recent Changes in US Patent Law - Robert Titus	Children's Museum
Mon Oct 8, noon	ScienTech Club	Joint Strike Fighter	Children's Museum
Tues., Oct 16	CIS-IEEE PES	Fall Short Course #1- Predictive Maintenance for Power Delivery Equipment , General overview of substation equipment predictive maintenance	IP&L Safety Room, Indianapolis, IN
Oct 16 or 18	ASME	Tour of Hillenbrand (Hill-Rom) , details forthcoming	Batesville, Indiana
Tues., Oct 23	CIS-IEEE PES	Fall Short Course #2- Predictive Maintenance for Power Delivery Equipment , Detailed discussion on major equipment testing	IP&L Safety Room, Indianapolis, IN
Oct 25-27	SWE	Society of Women Engineers 2007 National Conference Nashville Convention Center,	Nashville, TN
Tues., Oct 30	CIS-IEEE PES	Fall Short Course #3 - Predictive Maintenance for Power Delivery Equipment , Oil quality analysis, the dangers and solutions to corrosive sulfur in dielectric transformer oil	IP&L Safety Room, Indianapolis, IN
Tues Oct 30	ACEC Indiana	Networking Skills For Engineers	Somerset Conf. Ctr, Indianapolis, IN
Nov 1-4		10th Annual Colloquium on International Engineering Education at Purdue University	West Lafayette, IN
Tues. Nov. 6	CIS-IEEE PES	Fall Short Course #4- Predictive Maintenance for Power Delivery Equipment , Dissolved Gas Analysis - DGA	IP&L Safety Room, Indianapolis, IN
Wed. Nov. 7	CIS-IEEE	Annual Banquet, Pres. Gerald Jakubowski of Rose-Hulman Institute of Technology will be the keynote speaker	Ritz Charles Indianapolis, IN

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

Distribution: The Reporter is distributed to approximately 1900 IEEE members within the Central Indiana Section including student members and faculty of Purdue, IUPUI, Rose-Hulman and ITT Technical Institute. The Reporter may be selectively distributed to non-members when it serves the aims of the Section. Examples include public, industrial, and school libraries, and other engineering societies and professional organizations. Inquiries for complimentary subscriptions should be made to the Editor.