THE REPORTER

Behind the Scenes at WISH-TV

On October 14th, 2004, the Central Indiana Section got a behind the scenes look at how a TV station works and the preparations involved for HDTV. Forty-four people met at the WISH-TV Studios, 1950 N. Meridian St., Indianapolis, IN. We were originally limited to 20 persons, but we did not want to turn anyone away. To accommodate the large turnout, they were split into three groups. Tom Weber from the WISH-TV engineering staff was the host for the tour. He led one group and his manager led the second. Gerry Inks, the Hub Operations Manager led the third.

Photo by Steve Rich.

The emphasis of the tour of WISH-TV was on new high definition, digital broadcast equipment. WISH-TV has been broadcasting digitally since December of 1998. They have a broadcast radius of approximately 60 miles for channel 8, and 25 miles for the Univision station.

3rd Annual Awards Banquet

**Presented by the
Central Indiana Section – IEEE**

November 18, 2004

Location: Ritz Charles
                     12156 North Meridian Street
                     Carmel, IN 46032

Keynote Speaker: Scott Jones
                     Founder/Chairman
                     Gazelle TechVentures

Schedule: 6:30 pm   Cocktails
                     7:00 pm   Dinner
                                Awards
                                Recap of the year
                                Keynote Speaker

Register: www.cis-ieee.org

Cost: IEEE members & guests $25
                     Non-IEEE members & guests $30
                     All Students $20
                     Corporate Table of 6 persons $125

Don't miss this fantastic event!

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Central Indiana Engineering Consultant Network (CIECN)

John and William Kassebaum
Co-Chairmen

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        William R. Kassebaum
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        Cell: (317) 506-7931
        Will.Kassebaum@ieee.org

www.indy-engineer.net

Computer Society

Contact: Dan Allison
        (317) 475-0346
        dallison@ieee.org

Engineering Medicine Biology Society (EMB)

Contact: Ed Berbari
        eberbari@iupui.edu

Signal Processing Society

Contact: Ilya Pollak
        ipollak@ecn.purdue.edu

Power Engineering/Industry Applications Society (PES/IAS)

Contact: Dick Hildreth
        (745) 648-6589
        dhildreth@cityofanderson.com

★★★★★★★★★★★★★★★★★★★★★★

★ News from PES/IAS ★
★★★★★★★★★★★★★★★★★★★★★★

We regret that PES/IAS was not able to get a Fall Seminar put together on Power Industry Communications Protocols and Practices. We hope to get this pulled together for the Spring Seminar.

In the interim, a session is scheduled for our November meeting which will feature representatives from the Cinergy subsidiary and their partners to discuss BPL (Broadband over Power Lines.) The November meeting will be held on the 9th at 6:30p.m. at Indianapolis Power & Light Co. Jim Mollenkopf from Current Technologies, the manufacturer of the equipment used in the new Cinergy venture, will address key facets of this technology, including an overview of the powerline communications channel and how channel impairments are mitigated. Network architecture and performance tradeoffs will be discussed, as well as how this technology integrates with power system operations.

Any Central Indiana IEEE member (preferably also a Power Engineering Society or Industrial Applications Society Member) who has ideas or an interest in contributing to our programs should contact PES/IAS Chair Dick Hildreth, dhildreth@cityofanderson.com or past Chair Mike Darnell, james.darnell@AES.com.

Central Indiana Section-IEEE
3rd Annual Awards Banquet
Keynote Speaker Scott Jones

The Central Indiana Section (CIS), Region 4, Institute of Electrical and Electronics Engineers (IEEE) will be hosting their third annual Awards Banquet. The awards banquet will be held November 18, 2004, at the Ritz Charles in Carmel, Indiana. The awards banquet is open to members and non-members of IEEE. Topics for this awards banquet include a "State of the Section" report, recognition and awards of CIS-IEEE members and a keynote speaker. The keynote speaker for the awards banquet will be Scott Jones of Gazelle TechVentures.
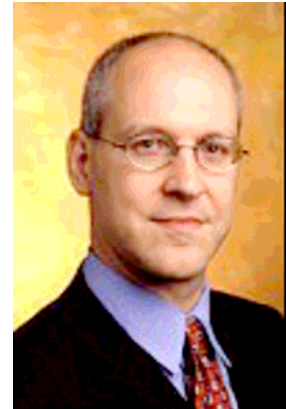
Registration costs are listed below.

IEEE Member and guests	$25
Non IEEE Members and guests	$30
IEEE and Non IEEE Students	$20
Corporate table of 6 persons	$125

Register at www.cis-ieee.org/banquet.asp.

About Scott Jones

Scott Jones, creator of several technologies including the "voicemail" used by over 500 million people globally, continues to actively build businesses that capitalize on advanced technologies. Founder/Chairman of one of Indiana's leading Venture Capital firms, Gazelle TechVentures, as well as Founder/Chairman of Gracenote (maker of the widely-used Internet music recognition service, CDDB) and Escient (maker of the first hard-disk based music systems for the home), he served as Chairman of the Indiana Technology Partnership, a statewide organization comprised of business, academic, and civic leaders. Graduating from IU in '84, he was a research scientist at MIT's Artificial Intelligence Lab and then founded Boston Technology in '86. Scott has taught entrepreneurship at Indiana University Schools of Informatics and Medicine.

For more information:

Central Indiana Section: www.cis-ieee.org.
IEEE Region 4: www.ewh.ieee.org/reg/4/.
IEEE: www.ieee.org.
Scott Jones: www.gazellevc.com/team/bios/jones.htm
Gazelle TechVentures: www.gazellevc.com/overview/overview.htm

The Chairs' Corner

27 October 2004

As I sit here on a hectic day dealing with deadlines, I sometimes wonder how I get it all done. Looking back over the last two years as your Chairman, I see that we have accomplished many things.

Here is just a partial list of Central Indiana Section Accomplishments over the last two years.

- The Central Indiana Section has received the Region 4 award for "Exemplary Section 2003" Enough said.

- Hosted the Electro/Information Technology conference sponsored by Region 4.
  This was the first conference hosted by the section in recent history. This took place on June 4-6, 2003 at the Holiday Inn Select at the Indianapolis International Airport. Tracks included the traditional paper track and for the first time in the history of the conference a professional development/leadership track.

- Increased attendance at the section executive committee meetings of non committee members.
  Over the past two years there has been an increase in non executive committee members showing up to the executive committee meetings. This is fantastic and highly important. We always need volunteers to help fill positions. While not everyone that shows up takes on a position, we gladly accept their input. The executive committee meetings of the section are open to all section members and occur usually on the fourth Thursday of the month.

- Increase in the number of chapter chairs taking part in executive committee meetings.
  Over the past two years we have increased the number of chapter chairs that attend the section executive committee meetings. This is significant in that communication between the chapters and the section is improving.   The chapter chairs attendance allows the section to learn more about the chapter and their needs, and be available to provide assistance when needed. The chapter chairs also get first hand knowledge about what is going on in the section and can relay that information to their society members.

- Increase in the number of joint section/chapter events.
  It has been a goal to have a joint section/chapter event with each chapter. This can be in any form, e.g. a tour, distinguished speaker, etc… The goal of a joint section/chapter event is to share knowledge of a society with other members of the section that are not members of that society but are interested in the topic being presented.

- The Central Indiana Engineering Consultant's Network (CIECN)
  This is the newest affinity group in the section. This group meets once a month and is a way for CIS members to network. See http://www.indy-engineer.net/ for more information.

As with successes there are also areas that need to be worked on. Some of these are:

- Interacting with student chapters.
  There are four student branch chapters within the Central Indiana Section. But over the past two years we have not had much contact with them. It is crucial to have a student chapter liaison and contact with the student chapters. It is the current students who will become the future engineers. If the student engineers can get to know the IEEE as a professional organization that can give back to them not only as a student but also as an engineer, who is new to the workforce, then the number of young engineers in IEEE will increase. The Graduates of the Last Decade (GOLD) is designed to help new engineers (ten or less years in the workforce after the first professional degree) to acclimate into the workforce.

- Finding and maintaining volunteers.
  The IEEE is an all volunteer organization. We have a section population of approximately 1,700 members. Out of this we have a core Executive Committee made up of seven voting members. Chairman, Vice-Chairman, Secretary, Treasurer, two Directors and the Communications officer. We have four active societies whose chairmen are also members of the executive committee: Power Engineering/Industrial Applications Society, Computer Society, Engineering in Medicine and Biology Society and Signal Processing Society. We also have a Professional Activities Committee (PACE), Newsletter Editor, Membership Development, and Student Chapter Liaison. So, if all positions were filled, we could have a total of 15 executive committee members out of a possible 1,700 members or approximately 1% of the total membership. The Central Indiana Section and the IEEE work because of volunteers.

So on that note, we have job openings for the following positions:

    Student Chapter Liaison
    Membership Development

Anyone interested in these positions - please contact any member of the executive committee.

There are many people to thank. Without them, we would not have been able to accomplish the things we did.

    At the Section level.

    Jose Ramos, Bill Lin, Tom Bishop, Ken Ried, Norbert Viranyi, Bob Evanich, Shelly Born, Duane Mattern, Pam May, Al Razban, Dick Hildreth, Dan Allison, Ed Berbari, Ilya Pollak, John Kassebaum, Will Kassebaum, Earl Hill, Marvin Needler, Rich Pfile, Mike Darnell, and Hal Sabbagh.

    At Region 4 level

    Burt Loupee, Sat Basu, Hossein Mousavinezhad, and Bob Adams, Don Bramlet.

If I forgot somebody, I apologize in advance.

Last minute reminder. If you have read this far it's almost over. On November 18, we have our 3rd annual awards banquet. This year's keynote speaker is Scott Jones. Scott Jones has been involved in voice mail technology since its inception in the 1980's. We also have awards to give out to section members on Engineer of the Year and Member of the Year. It is a fun evening at the Ritz Charles in Carmel, Indiana. It is also a great way to meet members of the executive committee and see first hand the accomplishments of the section and its members. More information and registration for the awards banquet can be found at www.cis-ieee.org/banquet.asp I look forward to seeing you there.

Again I want to thank you for the privilege of being your chairman for the last two years.

Sincerely,

Alan Stillerman
Chairman
Central Indiana Section - IEEE

Central Indiana Engineering Consultants' Network (CIECN)

Please join us for the next meeting of the Central Indiana Engineering Consultants' Network www.indy-engineer.net which will be held on Thursday, November 4th, from 6:45 PM to 8:30 PM at the IUPUI Business/SPEA Building at 801 W. Michigan St., room BS 2000. A map of IUPUI can be found in <http://www.iupui.edu/misc/campusmap.htm>. Parking will be available in the North Street Garage (XC) which is just north of the SPEA Building across Michigan Street. An interactive map of these facilities can be found at <http://www.parking.iupui.edu/campus_map.asp>. Please note that the advertised free parking at Bush Stadium will not be available since the shuttle service ends at 7PM. Unless you have an IUPUI parking permit, you will have to park in the XC visitor parking garage. Alternatively, you may be able to park beneath the University Place Conference Center, but that will likely cost more than the XC North Street Garage. The entrance to both of these garages is from North Street. To get there, you will need to turn right and go north on Blackford St. (1st stoplight after you enter the campus) for one block to reach North street. Then turn left and go west on North until you reach the North Street garage which will be beyond the student surface parking lot. Once you have parked, go to the top level of the garage and cross Michigan St. (using the gerbil tube to the south) to reach the SPEA Building. As you enter the SPEA Building directly south of the gerbil tube, room BS 2000 will be the very first room on your left.

For those who RSVP, an optional dinner networking opportunity will be available from 5:30 to 6:30 p.m. at the Chancellors' Restaurant located in the University Place Conference Center at 850 W. Michigan Street www.universityplace.iupui.edu/explore/restaurants.asp. Those who wish to attend the dinner must RSVP their intentions by Tuesday, November 2nd in order for our reservation to be confirmed.

Each attendee will, of course, be responsible for their own dining costs. We expect it to be comparable to Max N' Erma's. Note that you can reach the University Place Conference Center via the gerbil tube going west from the North Street Parking Garage.

Meeting Agenda

5:30 - 6:30pm	Networking Over Dinner (at Chancellor's)
6:30 - 6:45pm	Networking Prior to the Meeting (SPEA BS 2000)

6:45 PM Meeting to be Called to Order

6:45 - 7:00pm	Short Introductions & Attendees' Elevator Speeches
7:00 - 7:10pm	CIECN Business
7:10 - 7:20pm	Guest Spot
7:20 - 7:30pm	A 10-Minute Business Close-Up Presentation
7:30 - 8:30pm	Featured Speaker
8:30pm	Meeting Adjourns
8:30 - 8:50pm	Networking and Clean-up
9:00pm	Site Closes

Guest Spot
This month we will have David Coats of The Polis Center at IUPUI who will tell us about pending Indiana State Senate legislation in regard to GIS information produced by the State of Indiana. I think this will be a very informative talk and may enlighten us about how our members might be of service to the lawmakers of our state.

10-Minute Business Close-Up
For the November meeting, Mr. Wayne Stec will make a presentation about his business - Distregen www.distregen.com.

Featured Speaker and Topic
Bob Huck, who is an IEEE Life member and an officer of SCORE, will tell us about what resources and advice SCORE offers to the local business community.

Bob Huck
Currently serving as a volunteer Counselor for SCORE, Bob has been a SCORE Member for 8 years, is currently MIS Vice-Chairman, and is a SCORE Cyber Chapter (e-mail) Counselor.

His business experience includes 30 years in various Engineering and Management positions in RCA Corporation. This includes 7 years in computer systems engineering, 6 years in magnetic media development (video and computer tape, computer disks), and 17 years in consumer product development (primarily in RCA's CED video disc program). Following RCA, he spent 5+ years as Program & Project Manager for Science Applications International Corporation (SAIC). He provided technical contracted support to the Naval Avionics Warfare Center (NAWC), including management and operation of the Learning Center of the Electronics Manufacturing Productivity Facility (EMPF).

Bob has a BSEE from the University of Missouri at Rolla (UMR) and an MBA from Butler University. He holds 2 U.S. Patents and is a past-U. S. delegate to the American National Standards Institute (ANSI) for magnetic recording media. Bob is an Air Force veteran of the Korean War. He is an IEEE Life Member, having been a member of IEEE since 1963 and predecessors IRE and AIEE.

What is SCORE ?
SCORE "Counselors to America's Small Business" is a non-profit organization dedicated to the formation, growth, and success of small businesses nationwide. In Indianapolis, SCORE provides FREE confidential business counseling and low-cost seminars in all areas of business planning, start-up, and operation. There are 14 other SCORE office locations in Indiana. (A listing of all locations will be provided.) You can reach the local SCORE chapter on the web at <www.score-indianapolis.org>.

This counseling service and business seminars are available if you have only just an idea for a business start-up, are currently starting a business, or if you have been active in business for a long time. We are here to help your business succeed! In summary, we volunteer our time, knowledge, and experience to benefit you and others like you who want to achieve the American dream of successful business ownership.

Future Business Overview Presenters
On December 2nd, Bill Ataras of CIECN will talk about growth and transformation in technology businesses. On Jan. 6th, Cathleen Nevin J.D. of Katz & Korin P.C. will tell us about legal issues surrounding employment and sub-contracting relationships.

Elections
We have had no other nominations for the two officers who will take over in January for 2005. If you would be willing to serve in this capacity for 2005, please consider nominating yourself. Will and John Kassebaum have nominated themselves for continued service, but would welcome help. If we have any nominations, we will hold a ballot during the upcoming meeting.

Roster
In order to complete our roster, I need to obtain descriptions of technical and consulting specialties from each member. Please make sure that we have your complete and current contact information as well as a set of technical key-words which relate to the services and expertise that you are offering. You can

email that information to me at John.Kassebaum@IEEE.org anytime. I will bring a roster with me to the meeting that you may check and correct there.

AICN Services and Consultant Roster
In addition, it has come to my attention that the AICN (our parent organization in the IEEE) offers a Roster service <www.ieeeusa.org/business/consultants/> that may be of value to our members. This was also cited in an article entitled "Offering Consultants a Helping Hand", which begins on page 20 of the recent September 2004 issue of the Institute. Apparently, this service costs $75 per year and is available to members and associate members of the IEEE.

I look forward to seeing you at the meeting! Also, please notify any colleague who you think might wish to join us. Membership in the IEEE is not required and there are no dues or fees to join.

!!!! RSVP REQUIRED BY 11/2 TO ATTEND THE DINNER !!!!

!! Also, please RSVP if you are coming to the meeting, this will help us advise the speakers to bring the right number of handouts. !!

John A. Kassebaum, Co-Chair
Central Indiana Engineering Consultant Network
Mailto:John.Kassebaum@IEEE.org
Direct: (317) 293-1242
Cell: (317) 250-7932
Fax: (317) 328-9442
http://www.indy-engineer.net

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National Engineers Week 2005

The Purdue School of Engineering and Technology at IUPUI will promote engineering careers to prospective and current students during National Engineers Week. The Central Indiana Section will be supporting this event.

Contact Terri Talbert-Hatch <ttalbert@iupui.edu> for more information.

Check out the national website for National Engineers Week at http://www.eweek.org/ to see the activities and materials available to help get the word out on what engineering is all about.

Notice of Upcoming Section Officer Elections

Each year the CIS-IEEE nominates and elects officers from the section membership. Any CIS-IEEE member can be a candidate for office. Per the bylaws of the section, all members must be notified, via e-mail, that they have an opportunity to run for office.

Serving as a CIS-IEEE officer provides the following advantages:
- An opportunity to serve the section and to help direct its activities
- An opportunity to work more closely with colleagues in the section, and in the regional and the national IEEE organizations
- An opportunity for professional advancement through broader industry participation
- An opportunity for free pizza and pop at Executive Committee meetings

The CIS-IEEE elects officers for a one year term (except directors, who serve for two years). The Nominating Committee nominates the following for Officers for 2004:
- Director   Alan Stillerman   (1 of 2 elected in 2004; the other will be elected in 2005)
- Chairman   Jose Ramos
- Vice Chairman   John Kassebaum
- Secretary   Tom Bishop
- Treasurer   Bill Lin

Candidates are welcome for each office. Each candidate must collect 25 signatures (with member ID#) from members of the CIS-IEEE to qualify (see bylaw Article IV for details at http://www.cis-ieee.org/bylaws.asp). To be placed on the ballot, please forward your name and list of signatures to the Nominating Committee Chairman: Earl Hill at eshill@loma-consulting.com.

Nominations are open until November 5th. The election will be announced via e-notice on November 15th. Thanks in advance for your participation in the election process.

John Kassebaum

John A. Kassebaum is a founder and President of StellarWind Development, LLC (SWD) that was founded in 1998 by personnel from the Naval Air Warfare Center. John is an active Senior Member of the IEEE, and is currently serving as Co-Chair of the Central Indiana Engineering Consultants' Network (CIECN). His experience derives from over 9 years of advanced graduate level coursework and thesis research, 10+ years of high tech R&D work for the U.S. Department of Defense, and over 5 years of high-tech development experience in the private sector. John is currently completing a doctorate in Computer and Electrical Engineering at Purdue University with specialties in software architecture, algorithm analysis and design, optimization, pattern recognition, Bayesian analysis, and computational intelligence.

Statement of Purpose

I accept the nominating committee's nomination to serve as the Vice-Chair of the Central Indiana Section of the IEEE. The upcoming few years will be an interesting time in the State of Indiana as initiatives to create high-technology growth are considered and implemented by the state legislature, the governor, and the local business community. I believe this time will also be important for the profession since we have a prominent role in the development and support of almost every high-technology business. As I have started to do with the Central Indiana Engineering Consultants' Network, I hope to help generate more public notice and visibility to the section, the IEEE and its mission, and to the profession itself. As the Vice-Chair, I will be able to actively learn the essential mission and historic role of the section while contributing to the professional activities and visibility of the profession during these times of change. I ask for your support in these efforts, and I look forward to serving as your Vice-Chair.

Thomas Bishop

Tom Bishop is a Senior Member of IEEE, and member of the Signal Processing, Communications and Aerospace and Electronic Systems Societies. He has served the Central Indiana Section (CIS-IEEE) as:

- Executive Committee Secretary 2002 (partial year), 2003 and 2004.
- Registration Chairman for IEEE Electro-Information Technology Conference 2003 held in Indianapolis, IN. CIS
- Awards Committee Chairman for 2003 and 2004.

He has lived and worked in Indianapolis area for over 20 years and presently employed by Raytheon Technical Services Company LLC. His engineering career encompasses the functions of Quality, Reliability, Production, Field Service, Test, Design, Development and presently Systems Integration. Degrees held include:

- BSEE (Biomedical Applications), The Ohio State University
- MBA (Management), Indiana University
- MSE&CE (Signal Processing) Purdue University.

Tom is a licensed Professional Engineer in the state of Indiana (computer engineering).

Statement of Purpose
The local IEEE section is an opportunity for me to network and associate with an impressive, talented group of professionals and collectively share and advance the many disciplines within electrical engineering in the central Indiana region.

NEW IEEE JOURNAL TO PUBLISH LATEST IN AUTOMATION RESEARCH

Twenty years ago, the field of Robotics was galvanized by the creation of an IEEE Journal devoted to the topic. We now have the opportunity to do the same for the field of Automation.

In July, the IEEE Robotics and Automation Society premiered IEEE Transactions on Automation Science and Engineering (T-ASE), a new journal devoted to publishing foundational research addressing the scientific methods and technologies that improve efficiency, productivity, quality and reliability across today's most important industries.

In doing so, the journal will reach beyond the mass-production roots of Automation to address topics in biotechnology, pharmaceutical, and health; construction, transportation, and security; Manufacturing, maintenance, and supply chains; home, laboratory, and service; business and software; and food handling and processing.

A free preview of the first issue's contents is available online at http://www.ieee.org/t-ase. There, you'll find a copy of the journal's first editorial, plus the first page of each paper from the premier issue.

IEEE members are invited to become charter subscribers to T-ASE for US$15, or US$17 for print plus electronic access to the online version of the journal as soon as issues become available in IEEE Xplore(R).

Members can also subscribe to the IEEE RAS Package. Receive both T-ASE and IEEE Transactions on Robotics for the combined price of US$25 -- or just US$29 for print and online access. Subscriptions can be added at http://www.ieee.org/addservices or http://www.ieee.org/renew.

For more information on IEEE Transactions on Automation Science and Engineering, visit http://www.ieee.org/t-ase.

Region 4 Executive Committee Report, Chicago, IL – October 16 – 17

The region 4 executive committee was held in Chicago, IL, on October 16 -17, 2004. There are usually two meetings a year (January and October) where section chairs of region 4 attend the region 4 executive committee meeting. While there, many events happen. An update on the region is given by various department heads or the region 4 executive committee to the section chairs. The section chairs also give reports on their section. Other activities include:

>   Voting on the region budget
>   Voting on who will become Director – Elect
>   Training on how to do different jobs, interact with IEEE corporate in Picatscaway, NJ
>   Training on Professional Activities
>   Updates on the Region 4 Sponsored conference (Electro/Information Technology)
>   Training

That was not all that went on at the meeting. The region 4 executive committee meeting allows the different section chairs to share and exchange ideas on how to better run their section. It also gives the ability to see people face to face and to put a face to a name.

As with most IEEE meetings/conferences, the day and a half was packed from 8:00 a.m. till about 8:00 p.m. on Saturday and from 8:00 a.m. till noon on Sunday. The region usually pays for one section member to attend. The section then picks up the tab for any other section members that go. The section executive committee is strongly recommended to attend.

Once a year, awards are given out at the Saturday night banquet. These awards are: Outstanding Member, Outstanding Engineer, and Exemplary Section. These awards are always a year behind. The winners for 2003 are:

Outstanding Engineer – Dr. Ali Asraf Chowdhury   Outstanding Member – Sohrab Asgarpoor

(Burt Loupee presenting Dr. Chowdhury with his award.)

(Joel Haskins accepting on behalf of Mr. Agarpoor.)

Exemplary Section – Central Indiana Section

(Alan Stillerman accepting on behalf of Central Indiana)

Exemplary Section – Iowa Illinois Section

(Dr. Chowdhury accepting on behalf of Iowa Illinois Section)

Just so you know, we take the section awards winners (Member of the Year and Engineer of the year) and submit them for the region 4 equivalent award. However, the rules state that we cannot be Exemplary Section two years in a row.

Next year there will only be one region 4 executive committee meeting. This will take place in October 2005 in conjunction with Sections Congress. Sections Congress occurs every three years and has delegates from every section in the world from all ten regions. This is a very big international IEEE conference. This Sections Congress will be held in Tampa, Florida.

IEEE Organizing Global Pre-College Technology Education Program

Continuing in its tradition of innovation, IEEE is taking the lead in developing a new non-discriminatory global pre-college technology education program. The program titled, emeritbadges.org, will be directed globally towards pre-college boys and girls.

Emeritbadges.org has developed hands-on electricity and electronics instructional material based on the Boy Scouts merit badge requirements. Instructional material for computer education is being developed. Any student, boy or girl can use the program to enhance technical literacy and learn more about viable engineering and other technical career options.

Emeritbadges.org Project Director Ralph W. Russell, II from the IEEE Richmond, VA Section said that this non-discriminatory program would be promoted globally through IEEE and youth programs such as World Organization of the Scout Movement and The World Association of Girl Guides and Girl Scouts. The next use of the new global pre-college electronics education material and hands-on kit will be at the 2005 National Scout Jamboree in Caroline County, VA, USA. Over 35,000 scouts will attend the Jamboree from the USA and several other countries.

Project leaders have started discussions with national and regional Girl Scout leaders to develop a method of incorporating the emeritbadges.org program into the Girl Scout program. The next step will be to start discussions with the global World Organization of the Scout Movement and The World Association of Girl Guides and Girl Scouts.

The 2005 Jamboree will be held at Fort A. P. Hill in Caroline, Virginia. The Jamboree will start on Monday, 25 July 2005 and end on Wednesday, 3 August 2005. Hundreds of volunteers that can serve as Assistant Instructors at the Jamboree Electronics Merit Badge booth for at least two days are needed. Additional project and volunteer information can be found at http://www.emeritbadges.org.

Broadband Internet over Power Line

Presented by
Jim Mollenkopf, Current Technologies

Tuesday, November 9, 2004
6:30 PM
Indianapolis Power & Light
1230 W. Morris St.
Indianapolis, IN
First Floor Safety Room

Broadband over Power Lines (BPL) has emerged as an exciting development in communications. This technology uses the existing electricity distribution infrastructure to provide broadband access to homes and businesses. Cinergy started a venture this spring to provide BPL service to its customers in the Cincinnati area. Jim Mollenkopf from Current Technologies, the manufacturer of the equipment used in the new Cinergy venture, will address key facets of this technology, including an overview of the powerline communications channel and how channel impairments are mitigated. Network architecture and performance tradeoffs will be discussed, as well as how this technology integrates with power system operations.

Jim Mollenkopf serves as the Vice President, Architecture and Products at Current Technologies, a leading developer of broadband over power line systems. In this role he is responsible for systems architecture, network performance and planning, product management, key technology development, and regulatory compliance. Prior to joining Current at its founding in 2000, he worked at Orbital Sciences where he led the communications system design team for the Orbcomm space segment. Prior to joining Orbital, he served for 11 years with the US Government in a variety of technology development positions.

Tour of the Anderson Peaking Power Plant Well Received

The joint meeting between the Section and PES/IAS on September 14, was a tour of the IMPA peaking power plant in Anderson, Indiana. Thirty people attended.

The 80,000 kilowatt combustion turbin peaker was added in 2004. The two 40,000 kilowatt peakers were installed in 1993. IMPA (Indiana Municipal Power Agency) also constructed a 138 kv line about 6 miles to Anderson's Webster Street Substation where Anderson Municipal Light and Power constructed a new 138 kv to 34.5 x 69 kv substation. The "x 69" indicates that it can be reconnected to a 69 kv secondary in the future. Attendees were able to see the peakers, discuss their operation with the plant operators, and talk about the construction of the single steel pole line and the construction practices used.

After the tour, most of the attendees chose to participate in the planned dinner as a group at the Edgewood Country Club, as well. Everyone had a pleasant time of learning from some well qualified people and enjoyed some great fellowship with section members.

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Nov 11 is Purdue, West Lafayette Central Indiana Corporate Partnership activity, Indiana Energy Technology Sizzle, A Colloquium of thought leaders from Indiana's Advanced Energy Technology Industries & Universities, contact Amelia West at amelia@hudson.org (317-549-4134) for details.

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IEEE-USA BACKS CENTER TO PROVIDE CONGRESS WITH TECHNOLOGICAL EXPERTISE

IEEE-USA has joined a coalition of engineering societies in supporting a bipartisan bill recently introduced in the U.S. House of Representatives that would establish a Center for Scientific and Technical Assessment (CTSA) to provide Congress with technological expertise.

In a letter sent on 6 October to Rep. Rush Holt (D-N.J.) and Rep. Amo Houghton (R-N.Y.), IEEE-USA and its sister organizations wrote: "The sheer volume and complexity of the technological data facing federal legislators necessitate some mechanism for balanced, non-partisan and technologically informed analysis provided in a judicious manner."

IEEE-USA joined a coalition which included AAES, ASCE, ASHRAE, NSPE and the Optical Society of America.

The joint letter is posted at
http://www.ieeeusa.org/policy/POLICY/2004/100704.pdf.

SECTION MEETINGS

Date	Host	Subject	Location
Nov 4	CIECN	Central Indiana Engineering Consultant Network	IUPUI, SPEA Bldg, Room BS 2000
Nov 9	PES/IAS	BPL (Broadband over Power Lines)	IPL, Morris St.
Nov 18	CIS	Annual Section Awards Banquet	Ritz Charles, Carmel
Jan 27	CIS	Executive Committee	IUPUI, ET building, Room 209

Check the Section web page for current information.

IEEE CIS Executive Operating Committee: Executive committee meetings are open to everyone and regularly scheduled for the fourth Thursday of the month at 6 pm in ET 209 on the IUPUI campus. Pizza is usually provided, as well. The November meeting will be the annual Awards Banquet on Nov. 18th. See you there!

THE REPORTER

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