



# THE POCKET SCOPE



The Institute of Electrical and Electronics Engineers, Inc.

Volume 54, Number 9

May 2004

## SCOPE NOTES

### May Houston Section News

**Where:**  
HESS (Houston Engineering and Scientific Society)  
5430 Westheimer@Yorktown

**When:** Thursday, September 23, 2004  
6:00 - 6:30 p.m. Social  
6:30 - 7:30 p.m. Dinner  
7:30 - 8:30 p.m. Speaker

**Cost:**  
\$10.00 - IEEE Members with 48-hour advance reservations.  
\$20.00 - non-members  
\$5.00 - students  
Call (713) 207-IEEE to make your reservations.

See Page 4 for the Continuing Education Schedule!

IEEEWEB ADDRESS  
<http://www.ieee-houston.org>

IEEE Houston Section  
P.O. Box  
460443  
Houston, Texas  
770568014

## The Chairman's Message

**Gilroy Dolor**



### The Chairman's Message

The Region 5 Technical and Leadership Conference was held in Oklahoma City, Oklahoma on April 2 - 4 and provided a great opportunity to network with the Section Leadership from the other 23 Sections in the Region and the full Region 5 leadership team. These conferences have always proven beneficial to learn as well as share ideas with the other Sections. There were several recurring themes from each Section: (1) how to attract and keep good volunteers (2) more communication and involvement with the student branches and (3) creating programs that provide more benefit to the membership. We did pick up some ideas, but would welcome suggestions from any of you.

Several awards were presented at the Region 5 Conference. I am pleased to announce our very own University of Houston won a fair share of them. They racked up several awards at the Region 5 Conference: (1) Outstanding student branch presented to IEEE UH student Branch, (2) Outstanding student member presented to Nnamdi Nnabuihe, (3) Outstanding educator presented to Dr. Dave Shattuck and (4) Outstanding Branch counselor presented to Dr. Ovidiu Crisan. In addition, University of Houston was represented by three (3) student teams in the Robotics competition. All three (3) teams made it to the final round, placing second, fourth, and sixth, respectively. Congratulations University of Houston!!!

Unfortunately, when there is good news, there is frequently also bad news to report. At our last EXCOM meeting, Dr. Peri Ktonas announced he was resigning from the University of Houston and will be transitioning his duties as chairman of the Engineering in Medicine and Biology Society (EMBS). While we are saddened by this news, I am sure Peri's successor will continue to build on the successes of the EMBS. Peri has been a very active and dedicated IEEE member for more than twenty (20) years. His contributions to IEEE are unsurpassed, and we will miss him dearly. Please join me in wishing Peri the very best as he spends his retirement in Greece.

May looks to be a busy month. There are several important events you need to mark on your calendar. The IEEE Power Engineering Society will be having their spring meeting on Thursday, May 20, 7PM, at the Powell Electrical Facility. Jim Bowen, Chief Engineer of Powell, will make a presentation entitled, "MV Switchgear and Circuit Breaker Ratings." You will receive Professional Development Hours

## Chair Message-CONT

Certification as well as a free dinner. If you are interested in attending, please give Paul Barrett 713-290-1151, Paul Ingamells 713-948-4992, John Lionberger/Allen Xi a call at 713-622-0227. The Offshore Technology Conference (OTC) will be on May 3-6 at the Reliant Center. The Houston Section will be manning two (2) booths, so be sure to drop by and say hello. Last, but not least, our next EXCOM meeting will be Thursday, May 27th at the Hess building. Make sure to visit the IEEE Houston Section website for more details. We hope to see you at these events.

Remember that your Executive Committee always looks forward to your feedback and comments. We are here to serve you and ensure that the programs and content of IEEE brings the most value. If you have suggestions and/or are interested in becoming active within the section or a local society chapter, contact one of the EXCOM members.

Gilroy Dolor  
Houston Section Chair

## IEEE IAS Meeting May 13

### **IEEE/IAS MEETING**

#### **SWITCHGEARGR 101**

**Meeting Date: Thursday, May 13, 2004**

**Time: 5:30 PM to 7:00 PM**  
**(Refreshment will be provided)**

**Place: Bechtel Building**  
**3000, Post Oak Blvd**  
**Houston, TX 77252**  
**Conference Room 4A**

**Reservations: Contact - Sunita Kulkarni**

**Tele: 713 235 2833**

**Email: [skulkarn@bechtel.com](mailto:skulkarn@bechtel.com)**

#### *SWGR 101 Presentation Overview*

*Mr. Steve Liggio, Engineering Manager for Point Eight Power, Inc will present "SWITCHGEAR 10." Mr. Liggio is a Member of IEEE/PES, EGSA, and on the University of New Orleans Electrical Engineering Department's Advisory Board.*

*This presentation will introduce the different types of switchgear rated up to 38KV. It will also present the requirements set forth by different organizations, mainly UL and ANSI/IEEE, for switchgear manufacturers to follow in the U.S. and how they design switchgear to comply. For low voltage switchgear, up to 600VAC, it will present the two main types, UL891 and UL1558, and identify the differences. For medium voltage metal clad switchgear, between 1000VAC and 38KVAC, it will present the primary standard, IEEE C37.20.2 or UL DLAH, and its requirements. The presentation will conclude defining some terminology used in the switchgear industry.*

IEEE CONTINUING EDUCATION ON DEMAND

2003-2004 REGISTRATION FORM



IEEE  
Houston  
Section

2003-2004

Continuing  
Education  
On Demand



Name:  
Company:  
Mailing Address: (where certificate will be delivered)  
City/State:  
Zip:  
Email:  
Telephone Voice:  
Telephone Fax:  
IEEE Membership Number:

Seminar Title	Code	Date	Amount
Acceptance and Power Factor Testing	902	Oct. 7/8	\$
Lightning and Surge Protection	320	Oct. 21/22	\$
Medium Voltage VFD's	505	Nov. 4/5	\$
Residual Bus Auto Transfer System	111	Nov. 18/19	\$
Synchronous Motors	610	Feb. 3/4	\$
Synchronous Generators	609	Feb. 17/18	\$
Isolated Generator Systems	611	Mar. 2/3	\$
System Protection	304	Mar. 16/17	\$
Low and Medium Voltage Cable	113	Mar. 30/31	\$
Communication System Integration	112	Apr. 13/14	\$
Low and Medium Voltage Switchgear	207	Apr. 27/28	\$
Total Paid:			\$

Mail a copy of your completed registration form along with your check payable to **IEEE CED SEMINARS** at the following address:  
IEEE CED SEMINARS  
PAT ROGERS  
SOUTHWEST POWER  
425 BLUEBERRY STREET  
HOUSTON, TX 77018  
progers@swpower.com

Registration receipts will be available upon request at the seminars.

For a cancellation refund, telephone Pat Rogers by the Friday before the seminar at: Phone: 713.696.9922  
Fax: 713.696.9983  
Email: progers@swpower.com

IEEE Continuing Education on Demand Completion Certificate with Continuing Education Units (CEUs) is provided after receipt of both nightly questionnaires and seminar evaluation sheets.

Please direct seminar questions to Paul Barrett at 713.598.0790

Please check the IEEE Houston Section website for the latest schedule and course information.

<http://www.ieee-houston.org>

IEEE CONTINUING EDUCATION ON DEMAND

The purpose of IEEE Houston Section Continuing Education On Demand is to provide a two-year repeating program sequence of practical industrial power application topics that supplement the daily work activities of the practicing graduate electrical engineer.

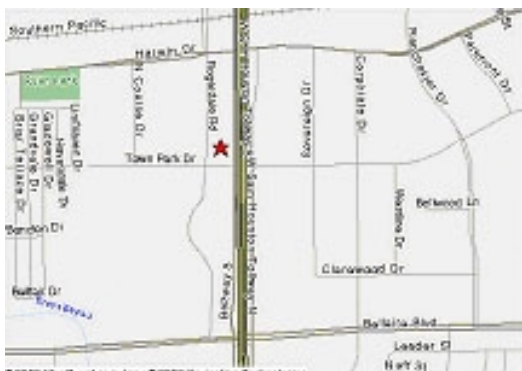
The seminars are intended to stimulate further study and discussion for learning continuance throughout the working career. Topics apply to heavy industries: oil and gas, petro-chem, cogen, pulp and paper, etc.

Instructors are application engineers, manufacturing specialists and expert consultants who provide a blend of diverse engineering perspectives.

The cost of each seminar is \$120.00 for IEEE members. "Early Signup" is \$60.00 and the check must be received the Friday before the seminar start date. The cost for non-IEEE members is \$200.00. Signup the week of the seminar does not guarantee seminar presentation documents or meals. For IEEE membership application information, contact Ray Schmidt at (281) 468-2978.

The following 2003-2004 seminar schedule defines the topics, dates and times. A course syllabus is available on request. Minimum class size is twenty for each seminar. Seating is limited and filled on an as received basis. Presentation documents are provided. A buffet is served from 5:00PM-6:00PM.

Seminar location:  
Jacobs Engineering  
5995 Rogerdale Road  
Houston, TX. 77072



Enter amount for each seminar:

IEEE member registration: \$120.00  
IEEE member early signup: \$ 60.00  
Non-member registration: \$200.00

Fall of 2003 IEEE Seminar Schedule

**Acceptance and Power Factor Testing (902)**  
**Randall Baker, Dashiell Corporation and Keith Hill, Doble Engineering Company**

Oct. 7/8, 2003 6:00-8:50PM  
Phasors, instrument transformer testing and load testing of relays/meters are performed. Additional testing topics include Sweep Frequency Response Analysis and power factor testing. [0.5 CEU]

**Lightning and Surge Protection (320)**  
**William Nichols, Siemens Westinghouse Technical Services**

Oct. 21/22, 2003 6:00-8:50PM  
Reviews theory and application of surge protection. Capacitor selection and application is examined. [0.5 CEU]

**Medium Voltage Variable Frequency Drives (505)**  
**Richard Osman, Robicon Corporation**

Nov. 4/5, 2003 6:00-8:50PM  
Theory and application of medium voltage variable frequency drives is reviewed. [0.5 CEU]

**Residual Bus Auto Transfer System (111)**  
**James Bowen, Powell Elect. Mfg. Co. and Roy Cossé, PowITech, a part of Powell Elect. Mfg. Co.**

Nov. 18/19, 2003 6:00-8:50PM  
Reviews fundamentals of a traditional transfer scheme. A modern transfer approach provides guidance for enhanced residual transfer scheme applications. [0.5 CEU]

Spring of 2004 IEEE Seminar Schedule

**Synchronous Motors (610)**  
**Chris Schartner, GE Canada and Michael Costello, Chevron Texaco Corporation**  
Feb. 3/4, 2004 6:00-8:50PM  
Practical applications are examined. [0.5 CEU]

**Synchronous Generators (609)**  
**Derek King, Brush Electrical Machines Ltd.**  
Feb. 17/18, 2004 6:00-8:50PM  
Generator theory, physical construction, and application are reviewed and discussed. [0.5 CEU]

**Isolated Generator Systems (611)**  
**Peter Evjen, Mustang Engineering, L.P.**  
Mar. 2/3, 2004 6:00-8:50PM  
Isolated generator system applications are investigated. [0.5 CEU]

**System Protection (304)**  
**Roy Cossé, PowITech, a part of Powell Elect. Mfg. Co.**  
Mar. 9/10, 2004 6:00-8:50PM  
Relaying overview of a complete power system including a brief discussion of primary and backup protection. [0.5 CEU]

**Low and Medium Voltage Cable (113)**  
**Donald Voltz, Mustang Engineering, L.P.**  
Mar. 30/31, 2004 6:00-8:50PM  
Theory, applications, field and factory testing are discussed. [0.5 CEU]

**Communication System Integration (112)**  
**Alan Pilcher / Harrison Combs, PowITech, a part of Powell Elect. Mfg. Co.**  
Apr. 13/14, 2004 6:00-8:50PM  
Reviews modern concepts for integrating meters and relays into one communicating system. [0.5 CEU]

**Low and Medium Voltage Switchgear (207)**  
**James Bowen, Powell Elect. Mfg. Co.**  
Apr. 27/28, 2004 6:00-8:50PM  
Reviews theory and application design basics. [0.5 CEU]

## IEEE Houston Section Scholarships 2004

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### IEEE - Houston Section

#### 2004 Scholarship Selection Criteria

In order to promote the interests of the Institute of Electrical & Electronics Engineers (IEEE) - Houston Section, and in support of its dedication to Engineering and Science, scholarship(s) will be awarded annually to selected applicant(s). For 2004, due to the success of the 2003 IEEE - Houston Section Annual Scholarship Golf Tournament, up to three (3) \$1,000 scholarships each, will be awarded to both incoming freshman and full time college students who meet the following criteria:

**ELIGIBILITY:** Limited to a full time student enrolled in an accredited college or university who:

- Is a IEEE - Houston Section member's child or grandchild
- \*\*\*\*OR\*\*\*\*
- Is a member of IEEE (Student Branch or other)

**DISCUSSION:** By restricting eligibility as above, scholarships are made available to those full time students who have an association with IEEE. This places applicants on a "level playing field" before selection criteria are applied to determine the scholarship recipients. All scholarships will be awarded on merit.

#### **SELECTION CRITERIA:**

##### Merit

- Candidate is enrolled / planning to enroll in an Engineering or Science Curriculum
- His/her cumulative GPA (High School GPA for entering college freshman), SAT or ACT scores
- Discussion paper

#### **DISCUSSION PAPER:**

This document will be a key element in the scholarship selection criteria. Topics should include, but not be limited to the following:

- Employment experience
- Activities/elected positions
- Career goals
- Honors/Awards
- Personal information
- Why are you seeking this scholarship

To apply, please complete the attached form and mail to:

IEEE - Houston Section  
Attention: Scholarship Committee  
P.O. Box 460443  
Houston, Texas 77056-8014

Deadline for submitting application form and all supporting data is July 3, 2004. Scholarships will be announced by August 31, 2004 and winner(s) will be honored at one of the IEEE - Houston Section Annual Meetings.

# IEEE Houston Section Scholarships 2004



## IEEE - HOUSTON SECTION SCHOLARSHIP APPLICATION

Applicant's Full Name: \_\_\_\_\_ Phone No.: \_\_\_\_\_

Home Address: \_\_\_\_\_ City: \_\_\_\_\_ Zip: \_\_\_\_\_

IEEE - Houston Section Member (Sponsor's Name): \_\_\_\_\_ Member No: \_\_\_\_\_

Student Status for \_\_\_\_\_ High School Sr. \_\_\_\_\_ Jr. \_\_\_\_\_ Soph. \_\_\_\_\_  
Fr. \_\_\_\_\_

\_\_\_\_\_ College or University

Cumulative Collegiate GPA (Based on 4.0 max.) substantiated by copy of transcript(s):  
\_\_\_\_\_

High School GPA - for applicant entering college as freshman:  
\_\_\_\_\_

- If High School Student - please provide SAT / ACT Score:  
\_\_\_\_\_

College or University: \_\_\_\_\_ Location: \_\_\_\_\_

Major or anticipated major:  
\_\_\_\_\_

IEEE Student Chapter Member: \_\_\_\_\_ Yes \_\_\_\_\_ No

Attach one (1) page essay by student covering:

1. Employment Experience
2. Activities/Elected Positions
3. Personal Information

## IEEE-PES Switchgear Committee Meeting

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IEEE/PES Switchgear Committee Meeting

**Galveston, Texas**

2 May - 6 May 2004

**You are invited to participate in the activities of the IEEE/PES Switchgear Committee.**

**Location:**

***The San Luis Resort Hotel is located on Galveston Island, Texas on the Gulf of Mexico. For more information on the San Luis Resort visit their web page at [www.sanluisresort.com](http://www.sanluisresort.com). For more information on Galveston go to [www.galveston.com](http://www.galveston.com)***

The Switchgear Committee has negotiated a special room rate of \$130+taxes US for single or double occupancy. Reservations must be made by 1 April 2004 to ensure your reservation at the negotiated rate. Use of the Meeting hotel by the attendees is crucial in keeping the conference costs low. For reservations call 800-392-5937 or 409-744-1500. When reserving your rooms mention the "IEEE/PES Switchgear Committee" to ensure you get the correct rate.

**Travel:**

The Bush Intercontinental and the Houston Hobby airports are less than an hour drive from Galveston. Transportation from the airport by Galveston Limousine Service will cost approximately \$35 one way for Bush Intercontinental and \$30 one way for Hobby Airport. For more information and reservations visit their web page [www.galvestonlimousineservice.com](http://www.galvestonlimousineservice.com)

Driving directions: From Houston take Interstate 45 South to Galveston. Cross Causeway Bridge, exit at 61st Street and turn right. Head south on 61st Street to Seawall Boulevard. Turn left onto Seawall Boulevard and go eight blocks. The San Luis Resort is located on the left at 53rd Street and Seawall Boulevard.

**Contact Information:**

***For more information regarding the meeting, contact the Switchgear Committee Secretary/Treasurer:***

Ted Burse

Powell Electrical Manufacturing Company

Phone: 713-948-4599

Fax: 713-948-4512

Email: [tburse@ieee.org](mailto:tburse@ieee.org)

**See the Houston Section Website for more information:**

**<http://www.ieee-houston.org/EventsIndex.htm>**

## IEEE Houston Section CED Class

### NEC 2005 Changes and Cable Seminar (2kV and Below) Houston, Texas

**Title:** NEC 2005 Code Changes Workshop and Cable ( 2 kV and below) Seminar

**Cost:** No cost to attendees (except \$10 per person for CEU if requested)

**Date:** May 19 , 2004

**Time:**

**8:30 AM- 4:30 PM** - Class room training

**4:30 PM- 6:30 PM-** Equipment Display and Training

**Location:** University of Houston- Clear Lake  
Bayou Building, Room 2512  
2700 Bay Area Blvd.  
Houston, TX7058

Lunch and refreshments will be provided by Seminar sponsor Service Wire Company  
**CEU provided at a cost of \$10/person**

**8:30 AM – 12:00 noon**

**Subject**

Welcome

House Keeping Safety Rules

Introduction of Attendees and Presenters

What is SWIEUG

Agenda Review

**NEC 2005 Changes -Part 1**

Break

Exposed Run (OpenWiring) requirements & Benefits

Mohla

VFD Cables

Thermoset or Thermoplastic-Pro and Cons

Comparison of XHHW-2 vs. THHN properties

Service Wire products and locations

**NEC 2005 changes- Part 2**

**12:45 PM- 4:30 PM**

**Subject**

**NEC 2005 changes- Part 3**

Cable Installation - overview

Break

Cable Joints

Cable Acceptance Testing

Solving cable problems in the field

**NEC 2005 changes- Part 4**

Closing

**4:30 PM- 6:30 PM**

Cable installation equipment

Cable testing equipment

Cable pulling lubricants

Cable joints

AEMC

Polywater

3M

**Morning session**

**Presenter**

Louis Weisberg

Daleep Mohla

Gary Morrison

Bruce McClung and Ben McClung

Daleep Mohla

Bruce McClung

Daleep

Daleep Mohla

Bruce McClung

Gary Morrison/ Daleep Mohla

Daleep Mohla

**Afternoon session**

**Presenter**

Bruce McClung

Ben McClung

Bruce McClung

Daleep Mohla

Daleep Mohla/Bruce McClung

Daleep Mohla

Louis Weisberg

**Refreshments and Equipment Display**

Greenlee

## IEEE Houston Section CED Class-Cont

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### BIOGRAPHICAL SKETCH

L. Bruce McClung, Principal Consultant  
Electrical Safety Consulting Services, Inc.  
656 Whittington Drive, Charleston, WV 25312  
Telephone: 304-342-0588; Facsimile: 304-342-2505; E-Mail: mcc-escs@worldnet.att.net

L. Bruce McClung was born in Rupert, West Virginia, on 26 June 1937. He received a B.S. in Electrical Engineering from West Virginia University in 1960. Later that same year, he joined the Union Carbide Corporation. In 1997, he became the first electrical engineer to be named a Corporate Fellow at Union Carbide.

In over four decades working for the Union Carbide Corporation, Mr. McClung's work in advancing technology, standards, and work practices has dramatically improved electrical safety. Safety-enhancement technologies he helped to develop include high-resistance grounding, arc-resistant switchgear, lower toxicity insulating compounds for wire and cable, and thermal protective clothing. Widely respected as a technical leader in the application of electric power systems on an industrial scale, Mr. McClung has provided electrical technology support for the design, construction, operation and maintenance of large chemical and plastic plants.

**A leader in developing electrical safety standards, L. Bruce McClung spearheaded the application of electrical technologies to achieve and maintain reliability in electrical distribution systems and to improve safety for employees exposed to electrical hazards in the workplace. His work has influenced virtually every standard related to electrical safety in the workplace, and has achieved exceptional results in reducing accidents, injuries, and fatalities.**

Mr. McClung has provided leadership in the advancement of IEEE standards, having served as chair of the Industry Application Society Standards Department for 11 years, during which time he strengthened industry participation, and helped to harmonize international standards. He represents IEEE on the National Fire Protection Association's standard NFPA 70 (National Electrical Code) and also did so on NFPA 70E for 1995 and 2000 Editions (Electrical Safety Requirements for Employee Workplaces).

A Fellow of the IEEE, Mr. McClung belongs to the IEEE Industry Applications Society, the IEEE Power Engineering Society, the IEEE Dielectrics and Electrical Insulation Society, the IEEE Product Safety Engineering Society, and the IEEE Standards Association.

Mr. McClung has authored or co-authored 29 technical papers, 18 of which have made IEEE-IAS Transactions Status, while 9 earned IEEE-IAS prize paper awards. He received the IEEE Standards Medallion, the IEEE Charles Proteus Steinmetz Award, the 2000 PCIC Electrical Safety Excellence Award, the 2001 IEEE Medal for Engineering Excellence and the 2001 IAS Outstanding Achievement Award. He also received Union Carbide's Chairman's Award, and has been elected a member of West Virginia University Academy of Electrical and Computer Engineers. He is a Registered Professional Engineer in the State of West Virginia and a member of Sigma Pi Sigma, Physics Honor society.

Mr. McClung served as IEEE Distinguished Lecturer for Electrical Safety Issues during 2002-2003 and was a Member-at-Large of the IEEE-SA Board of Governors for 2002-2003. He continues to serve on the IEEE Fellows Committee, the IEEE Charles Proteus Steinmetz Committee and the IEEE Standards in Education Task Force.

## IEEE Houston Section CED Class-Cont

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**Biography of Daleep C. Mohla**

**February 18, 2004**

**CURRENT COMPANY & YEARS OF SERVICE:**

Owner, Principal Consultant DCM Electrical Consulting Services, Inc

**PRIOR COMPANY INFORMATION:**

Dow /Union Carbide - 26 Years

Pullman- Swindell -Consulting Engineers- 3 years .

**COLLEGE/DEGREES:** BSEE, West Virginia Institute Of Technology, WV

**WORK BACKGROUND:** Dow -Technical Support Group Member

Principal Engineer – Union Carbide Energy Systems and  
Electrical Technology Group

Manual Manager of Union Carbide's Electrical Technology  
Methods and Standards Program

Chairman: Union Carbide Electrical Reliability group

**IEEE/PCIC CONTRIBUTIONS:** Member of IEEE . IAS . IEEE Alternate representative on  
National Electrical Code Panel No. 5

Member of IEEE grounding Sub- committee and  
IEEE 142 Green Book , IEEE 141 Red Book

Joint Author of IEEE Prize Paper award on Risk of  
Ignition due to Transition Currents in Medium  
Voltage motors

Joint Author IEEE prize paper on Electrical safety  
By Design

Member IEEE Standards Board

Chair IEEE NesCOM ( New Standards Committee

Member IEEE

Chair- IEEE Standards Coordinating Committee 18  
for NEC and NFPA standards

**NFPA CONTRIBUTIONS**

Member NFPA 70 - CMP 5 ( grounding)

Member NFPA task Force on Cathodic Protection  
Committee

Member NFPA task Force on Non-Linear Load  
Committee

**OTHER PROFESSIONAL MEMBERSHIPS:** National Fire Protection Association (Elec-  
trical Section)

**LICENSES:** Registered Professional Engineer in the State Of Texas, and Province of  
Alberta ( Canada) Inactive

## New Senior Members

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### Looking for Senior Member Nominations

READ THIS SECTION TO BECOME A SENIOR MEMBER IN THE IEEE.

A goal of our Region is to sponsor as many Senior Members as possible and I am asking your help. The IEEE criteria for Senior Member status is ten years of professional practice including five years of significant performance, and references. (See the nominator letter and application form for clarification on the IEEE website.) If you know an IEEE member who qualifies for Senior Membership, I would like you to nominate him or her by forwarding their nomination to one of the Houston Section Excom members. If you qualify and are not a senior member please reply to one of the Section Excom members. If your are retired and have met the criteria at one time lets get you nominated. Section meetings are the best networking tool to achieve Senior membership.

As an alternative process, you can direct the prospective Senior Member to one of the Houston Section Excom Members. We have a list of several Fellows and Senior Members which we can use for references. The Section will nominate all those qualified who provide a resume and significant performance vita.

Senior Membership in IEEE promotes the value of membership and enhances the status of the member. The is an achievement award lets honor our deserving members.

## New Features on IEEE Job Site

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During the month of May, the IEEE Job Site will add an important new job search feature called "National Network". CareerCast's National Network is a national job database with over 100 participating media & newspaper job sites, including the Wall Street Journal and the San Diego Union Tribune among many others.

You will be able to search the National Network directly from the IEEE Job Site through our "Search Job Listings" feature. Once you have run a job search and retrieve your results for the IEEE Job Site, just click on "Search National Network" and your current job search criteria will be matched against the postings from the National Network. You can also use any IEEE Job Site automated search agent which you have already set up to retrieve results from the National Network. Just click on the box in your search agent profile marked "include National Network results".

Look for the new National Network search feature to be added to the IEEE Job Site before the end of May. Thanks for using the IEEE Job Site to help with your career development needs!

TO UNSUBSCRIBE - We value your privacy, if you wish to discontinue receiving emails from IEEE, <http://careers.ieee.org/teaxis/moopy?>

# IEEE USA NEWS

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FROM Washington, DC: \*IEEE-USA NEWS & VIEWS\* 30 April 2004  
 "Building Careers & Shaping Public Policy"

<http://www.ieeeusa.org>

## IN THIS ISSUE:

1. \*Washingtonpost.com\* Discusses Offshoring Online with IEEE-USA
2. ITAA Offshoring Study Seen As Missing Important Issues
3. \*IEEE-USA Today's Engineer Webzine Covers U.S. Science and Engineering Careers Outlook, Hybrid Vehicles, Connecting the Engineering World
4. IEEE-USA, IEEE Boston Section Host Globalization Session on 5 May
5. U.S. IEEE Member Volunteers Invited to Participate in IEEE-USA's Careers Fly-In on 18-19 May
6. Report Released on Causes of August 2003 Northeast Blackout
7. Brantley Named New IEEE-USA Managing Director

### 1. WASHINGTONPOST.COM DISCUSSES OFFSHORING ONLINE WITH IEEE-USA

Dr. Ron Hira, chair of IEEE-USA's Career & Workforce Policy Committee, was online Friday, 2 April fielding questions about offshoring and its effect on U.S. high-tech companies and workers. \*Washingtonpost.com\* technology reporter Cynthia L. Webb moderated the discussion. To read the transcript, go to: <http://www.washingtonpost.com/wp-dyn/articles/A36379-2004Mar30.html>.

### 2. ITAA OFFSHORING STUDY SEEN AS MISSING IMPORTANT ISSUES

An Information Technology Association of America (ITAA) study touting the benefits of outsourcing high-wage U.S. jobs to lower-cost countries fails to address a number of important issues, according to IEEE-USA.

For details about the study, read the related news release at: <http://www.ieeeusa.org/releases/2004/033104pr.html>.

### 3. \*IEEE-USA TODAY'S ENGINEER\* WEBZINE COVERS U.S. SCIENCE AND ENGINEERING CAREERS OUTLOOK, HYBRID VEHICLES, CONNECTING THE ENGINEERING WORLD

Also, for a "Backscatter" column on the Collyers and the Web, a "World Bytes" column on being smart in any language, and an "Engineering and Pop Culture" feature on Galvani and the story of Frankenstein, read the latest edition of \*IEEE-USA TODAY'S ENGINEER\* online at: <http://www.todaysengineer.org>.

### 4. IEEE-USA, IEEE BOSTON SECTION HOST GLOBALIZATION SESSION ON 5 MAY

Attendees to Electro/Nepcon East/Assembly East (4-6 May), and others interested in globalization and outsourcing issues, are invited to join a panel session sponsored by IEEE-USA's Technology Policy Council and the

## IEEE USA NEWS-cont.

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IEEE Boston Section on 5 May at the Hynes Convention Center in Boston. For more information, go to: <http://www.ieeeusa.org/policy/Events/Boston/index.html>.

### 5. U.S. IEEE MEMBER VOLUNTEERS INVITED TO PARTICIPATE IN IEEE-USA'S CAREERS FLY-IN ON 18-19 MAY

Are you concerned about your career and issues affecting U.S. engineers? At IEEE-USA's Careers Fly-in, you can share your concerns with your legislators in Congress. The 2004 Careers Fly-In will focus on the current and future impacts of offshore outsourcing, and H-1B and L-1 visas, on engineering careers and U.S. competitiveness.

To find out more about the fly-in, go to: <http://www.ieeeusa.org/policy/Careerflyin/index.html>.

### 6. REPORT RELEASED ON CAUSES OF AUGUST 2003 NORTHEAST BLACKOUT

The U.S.-Canada Power System Outage Task Force's final report on the August 2003 Northeast Blackout, issued on 5 April, calls for mandatory and enforceable electricity reliability standards that IEEE-USA proposed in a November 2002 position statement.

To read the related news release, go to: <http://www.ieeeusa.org/releases/2004/040804pr.html>.

### 7. BRANTLEY NAMED NEW IEEE-USA MANAGING DIRECTOR

A 15-year government relations veteran with the IEEE, Chris J. Brantley, was named managing director for IEEE-USA. Brantley succeeds W. Thomas Suttle, who retired from the IEEE after 27 years of service.

Go to: <http://www.ieeeusa.org/releases/2004/040204pr.html> for more information about IEEE-USA's new managing director.

IEEE-USA NEWS & VIEWS E-MAIL ALERT is prepared monthly by IEEE-USA

Communications Staff in Washington, D.C. If you have questions or comments

about IEEE-USA NEWS & VIEWS E-MAIL ALERT, please send a message to <mailto:newsandviews@ieee.org>.

THE INSTITUTE OF ELECTRICAL AND ELECTRONICS ENGINEERS, INC.-  
USA

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## IEEE USA NEWS-cont.

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Here's your report on news around the IEEE, from the editors of The Institute. The most current version of The Institute can always be found at <<http://www.ieee.org/theinstitute>>

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#### 1. Latin America Publishes Its Own Transactions

How do you create an online, peer-reviewed, technical publication from scratch in less than a year? For a group of members from Region 9 (Latin America) the answer is simple: work hard, often around the clock. Read more at <[http://www.theinstitute.ieee.org/portal/index.jsp?pageID=institute\\_level1\\_article&TheCat=2201&article=tionline/legacy/inst2004/apr04/4w.featuretransactions.xml](http://www.theinstitute.ieee.org/portal/index.jsp?pageID=institute_level1_article&TheCat=2201&article=tionline/legacy/inst2004/apr04/4w.featuretransactions.xml)>

#### 2. Creator of Ctrl+Alt+Delete Reboots His Career

Hardly anyone is aware that the programming behind the PC's clever reboot function, Ctrl+Alt+Delete, is credited to a single person — IEEE Member David J. Bradley. But that's not the only contribution Bradley has made to PC development. Find out more at <[http://www.theinstitute.ieee.org/portal/index.jsp?pageID=institute\\_level1\\_article&TheCat=1016&article=tionline/legacy/inst2004/apr04/4w.profile.xml](http://www.theinstitute.ieee.org/portal/index.jsp?pageID=institute_level1_article&TheCat=1016&article=tionline/legacy/inst2004/apr04/4w.profile.xml)>

#### 3. Member Survey Response Spurs Societies to Act

When IEEE societies surveyed their members last year to ask if they were satisfied with the services and products they received, they learned that members liked their access to technical information but there was room for improvement. Find out what improvements some societies are making at <[http://www.theinstitute.ieee.org/portal/index.jsp?pageID=institute\\_level1\\_article&TheCat=2201&article=tionline/legacy/inst2004/apr04/4w.featureresearch.xml](http://www.theinstitute.ieee.org/portal/index.jsp?pageID=institute_level1_article&TheCat=2201&article=tionline/legacy/inst2004/apr04/4w.featureresearch.xml)>

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#### Development Tools Choices for the Blackfin Architecture

On Tuesday, May 18 and Thursday, May 20 Analog Devices, Inc. and Green Hills Software, Inc. will broadcast an interactive live webcast on

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embedded development tools options for the ADI Blackfin Processor Family. You will learn about embedded developers challenges, what Blackfin development tools are available, and how they will help you to overcome your design challenges. Register Now

<<http://seminar2.techonline.com/~analogdevices22/webcast/>>

### 4. What is Your Opinion of the Recent OFAC Ruling?

The U.S. Treasury's Office of Foreign Asset Control (OFAC) ruled on 2 April not to place any restrictions on the IEEE's peer review and editing of scholarly articles from members in Cuba, Iran, Libya, and Sudan. Give us your opinion of this ruling at <<mailto:institute@ieee.org>>

To read the ruling, visit <[http://www.ieee.org/portal/index.jsp?pageID=corp\\_level1&path=newsinfo&file=OFACruling.xml&xsl=generic.xsl](http://www.ieee.org/portal/index.jsp?pageID=corp_level1&path=newsinfo&file=OFACruling.xml&xsl=generic.xsl)>

### 5. Society Explores the Effect of Technology

More than 30 years ago, a group of members were so worried about the effect that technology was having on society that they convinced the IEEE to form one of the organization's few non-technical councils. Learn more about The Society on Social Implications of Technology at <<http://www.theinstitute.ieee.org/portal/>

<[http://www.theinstitute.ieee.org/portal/index.jsp?pageID=institute\\_level1\\_article&TheCat=2201&article=tionline/legacy/inst2004/apr04/4w.featuresociety.xml](http://www.theinstitute.ieee.org/portal/index.jsp?pageID=institute_level1_article&TheCat=2201&article=tionline/legacy/inst2004/apr04/4w.featuresociety.xml)>

### 6. Five Sections Reach Century Mark

In 1904, the same year in which John A. Fleming was inventing the diode, members of the American Institute of Electrical Engineers, one of the IEEE's predecessor societies, formed five sections around the United States. This year the Atlanta, Baltimore, Berkshire (Massachusetts), San Francisco and Seattle Sections celebrate their centennial anniversaries.

<[http://www.theinstitute.ieee.org/portal/index.jsp?pageID=institute\\_level1\\_article&TheCat=2202&article=tionline/legacy/inst2004/apr04/4w.newsanniversary.xml](http://www.theinstitute.ieee.org/portal/index.jsp?pageID=institute_level1_article&TheCat=2202&article=tionline/legacy/inst2004/apr04/4w.newsanniversary.xml)>

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### 7. Microwave Buzz Hits Texas

For six days in June, Fort Worth, Texas, USA, will buzz with the excitement of the latest in microwave developments as researchers and engineers gather for three separate conferences during Microwave Week. Read more at <<http://www.theinstitute.ieee.org/portal/>

<[http://www.theinstitute.ieee.org/portal/index.jsp?pageID=institute\\_level1\\_article&TheCat=2203&article=tionline/legacy/inst2004/apr04/4w.conference.xml](http://www.theinstitute.ieee.org/portal/index.jsp?pageID=institute_level1_article&TheCat=2203&article=tionline/legacy/inst2004/apr04/4w.conference.xml)>

### 8. Computer Communications Conference Proceedings

The proceedings of the 12th International Conference on Computer Communications and Networks are now available from the IEEE Online Catalog & Store. The conference, held last October, focused on mobile ad-hoc networks and optical networking for computer communications. Visit <<http://shop.ieee.org/store/product.asp?prodno=EX712>>

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The **Pocket Scope** is the newsletter of the Houston Section of the Institute of Electrical and Electronics Engineer (IEEE). The Houston Section address is: IEEE Houston Section, P.O. Box 460014, Houston, Texas 77056-8014.

The **Pocket Scope** is published eight times a year (monthly, September to May, except December). It is distributed to over 3000 professionals in the electrical engineering field in the greater Houston area.

**Advertising rates** are listed on the IEEE Houston Section website and include publishing in The Pocket Scope, ad on the website, and within the monthly e-mail update.

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