



# THE POCKET SCOPE



The Institute of Electrical and Electronics Engineers, Inc.

Volume 54, Number 6

February 2004

## SCOPE NOTES

### February Houston Section News

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

**When:** Thursday, February 26, 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 460014  
Houston, Texas  
770668014

## The Chairman's Message

**Gilroy Dolor**



First, on behalf of the Executive Committee, I want to extend our congratulations to Alex Dunn and Hari P. Kewalramani, members of the Houston Section who were recently elected to the IEEE Senior Member Grade. One of the goals of the Houston Section is to have all Excom members at this level. In light of that, the Excom is

looking at implementing a program which encourages, and makes it easy for Senior Member candidates complete the process. The Central Texas Section has used a process that has been very successful. The Dallas Section has also implemented this process with similar results. If you meet the qualifications, the Excom will help you achieve Senior Member status. Contact one of the Excom members for more information in upgrading your membership.

Only weeks away our first Section meeting for 2004 will be held at the HESS Building on Thursday, February 26<sup>th</sup>. Dr. Albert Cheng will give a presentation titled "Formal Analysis and Verification of Embedded and Real-Time Systems." His presentation deals with the use of practical formal analysis and verification techniques to ensure that the implemented systems perform as required. It should be an interesting and informative session.

Looking further ahead, the Houston Section will be manning booths at the OTC-May 2004 Conferences this year promoting IEEE. We need volunteers to help us man these booths and promote IEEE. If you are interested, please contact one of the Excom members. We are always interested in new volunteers as the IEEE is a volunteer organization. Several people have contacted Excom officers and a few have attended the monthly Excom meetings. If you are interested in becoming active, please take the time to consider volunteering in some capacity. The Houston Section has vast opportunities for you to consider. I urge you to visit the Houston Section website, look at the local society chapters as well as the Section and see if your interests lie in any of these areas

The Houston Section has a worldwide renowned Continuing Educa-

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## Chair Message-CONT

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tion Seminar with presentations every month. The next seminar will be February 3-4 on Synchronous Motors. Presenters will be Chris Charter (GE Canada) and Mike Costello (Chevron Texaco). Full details are on the website.

As always, the Executive Committee and I look forward to your feedback and comments. If you have suggestions and/or are interested in becoming active within the section or a local society chapter, contact one of us. At the next Excom meeting, we will be reviewing the Houston Section's goals for 2004. Your active participation and feedback is most welcome and very beneficial in ensuring that the programs and content of IEEE brings the most value.

Gilroy Dolor  
Houston Section Chair

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## February 26 Section Meeting

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The next meeting of the IEEE Houston Section will be held Tuesday, December 2nd, 2003. Please RSVP via calling (713) 207-IEEE to make your reservations by Friday November 28th, 2003. Please include your name and company name in the voice message. You can also send an e-mail to P.J. Donner at [pjdonner@ieee.org](mailto:pjdonner@ieee.org) to confirm your reservation. Time and date: 6:00 PM to 6:30 PM Social, 6:30 PM to 7:30 PM Dinner and 7:30 PM to 8:30 PM Presentation.

Program: **Formal Analysis and Verification of Embedded and Real-Time Systems**

The correctness of many systems and devices in our modern society depends not only on the effects or results they produce, but also on the time at which these results are produced. These real-time systems range from the anti-lock braking controller in automobiles to the vital-sign monitor in hospital intensive-care units. For example, when the driver of a car applies the brake, the anti-lock braking controller analyzes the environment in which the controller is embedded (car speed, road surface, direction of travel) and activates the brake with the appropriate frequency within fractions of a second. Both the result (brake activation) and the time at which the result is produced are important in ensuring the safety of the car, its driver and passengers.

This presentation will review how recently developed computer hardware and software products are increasingly embedded in a majority of these real-time systems to monitor and control their operations for both functionality and safety. These computer systems are called embedded systems, real-time computer systems, or simply real-time systems. Unlike conventional, non-real-time computer systems, real-time computer systems are closely coupled with the environment being monitored and controlled. Professor Cheng will provide an introduction to formal techniques and tools (such as model-checking, Statecharts, and real-time logic) that are practical for actual use.

## December 2 Section Meeting

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Speaker : **Prof. Albert M. K. Cheng** Director, Real-Time Systems Laboratory, Associate Editor, IEEE Transactions on Software Engineering Senior Member

Albert M. K. Cheng received the B.A. with Highest Honors in Computer Science, graduating Phi Beta Kappa, the M.S. in Computer Science with a minor in Electrical Engineering, and the Ph.D. in Computer Science, all from The University of Texas at Austin, where he held a GTE Foundation Doctoral Fellowship. Dr. Cheng is currently a tenured Associate Professor in the Department of Computer Science at the University of Houston, where he is the founding Director of the Real-Time Systems Laboratory. He has served as a technical consultant for several organizations, including IBM, and was also a visiting faculty in the Departments of Computer Science at Rice University and at the City University of Hong Kong.

He is the author/co-author of over sixty refereed publications in IEEE Transactions on Software Engineering (TSE), IEEE Transactions on Knowledge and Data Engineering (TKDE), Real-Time Systems Symposium (RTSS), Real-Time and Embedded Technology and Applications Symposium (RTAS), and other leading conferences. He is serving and has served on the program committees of many conferences in his areas of research. He is a frequent reviewer for the IEEE-CS Publications Office as well as for many international journals and conferences. One of his recent work presents a timing analysis of the NASA X-38 Space Station Crew Return Vehicle Avionics, which contains a fault-tolerant distributed system.

Dr. Cheng has received numerous awards, including the National Science Foundation Research Initiation Award (now known as the NSF CAREER award). He is very active in fostering undergraduate research through the NSF Research Experiences for Undergradu-

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## IEEE Fellows Nominations

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### 2005 IEEE Fellow Nominations

Deadline: 15 March 2004

The IEEE grade of Fellow is conferred upon a person of “outstanding and extraordinary qualifications and experience in IEEE designated fields, and who has made important individual contributions to one or more of these fields.” Many of our PES colleagues are eligible. As a professional community, we should be proactive in nominating our colleagues for this significant award.

The deadline for nominations is 15 March 2004. An electronic nomination process is being initiated this year. Nomination information and forms are available on the

Web, <<http://www.ieee.org/about/awards/fellows/fellows.htm>>.

For more information, contact R. G. Farmer, PES Fellows Committee chair, <<mailto:R.G.Farmer@ieee.org>>.

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.

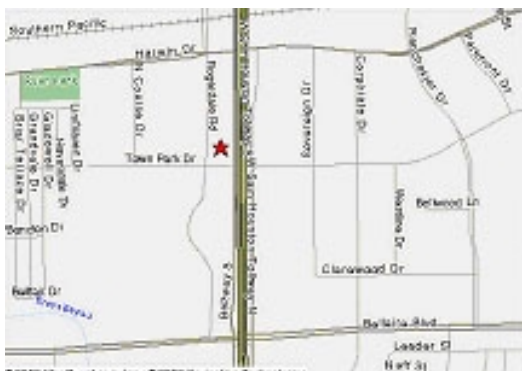
The seminars are intended to stimulate further study and discussion for learning continuance throughout the working career. Topics apply to heavy industries: oil and gas, petro-chem, cogen, pulp and paper, etc.

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]*

## Conference for Protective Relay Engineers

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CONFERENCE FOR PROTECTIVE RELAY ENGINEERS on March 30-  
April 1, 2004 at Texas A&M University in  
College Station, Texas.

CONFERENCE FOR PROTECTIVE RELAY ENGINEERS  
TEXAS A&M UNIVERSITY  
College Station, Texas  
March 30-April 1, 2004

The Planning Committee of the 57th Annual Conference for Protective Relay Engineers invites you to attend the conference at Texas A&M University on March 30-April 1, 2004. The Protective Relay Conference provides a forum for engineers to discuss protection technology and related subjects. Both tutorial presentations on fundamental concepts and papers on new technology are included. The program will include the following:

- \* New protection equipment descriptions
- \* Relay application ideas and new concepts
- \* Case Studies and "Horror Stories" (When the relays worked - and when they didn't!)

### Registration Information

Pre-Registration: \$215 (begins January 7, 2004)

After March 2, 2004: \$250

Manufacturers

For hospitality suites, please contact Lydia Godfrey at the College Station Hilton and Conference Center at (979) 694-4903  
Special offerings

In conjunction with the 57th Conference for Protective Relay Engineers special pre-conference offerings are available Monday, March 29, including a tutorial and manufacturer's presentations. Please see the website for more details.

This conference offers Continuing Education Credits  
<<http://engineering.tamu.edu/prorelay/>>

For Registration  
Ms. Sharon Loe  
Conference Registration  
238 Wisenbaker Engineering Research Center  
Texas A&M University  
3128 TAMU  
College Station, TX 77843-3128  
Phone: (979) 845-7912  
Fax: (979)458-1139  
<<mailto:s-loe@tamu.edu>>

For Information  
Dr. B. Don Russell  
Regents Professor  
College of Engineering  
Texas A&M University  
College Station, TX 77843-3128  
(979) 845-7912

## 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 IEE - 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 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:  
\_\_\_\_\_

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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:  
\_\_\_\_\_

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

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

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

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Attach one (1) page essay by student covering:

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

## MAY 2004 OTC SHOW

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# CALL FOR VOLUNTEERS

The Houston Section will be manning a booth at the Offshore Technology Conference (OTC) May 3-6, 2004 at the Reliant Arena. We need volunteers to help us man this booth, promote the IEEE, and sign-up new members.

If you are interested contact PJ Donner at 713-945-7771 or Donald Dunn 281-862-5533.

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## APRIL 2004 SWEE

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# CALL FOR VOLUNTEERS

The Houston Section will be manning a booth at the Southwest Electrical Exposition (SWEE) April 6&7, 2004. We need volunteers to help us man this booth, promote the IEEE, and sign-up new members. The Houston Section will also be presenting a seminar on **“DC Power Systems application considerations for batteries, chargers, monitors etc.”** by Jack Ripley at the show.

If you are interested contact PJ Donner at 713-945-7771 or Donald Dunn 281-862-5533.

## IEEE-NEWS

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NEWS from IEEE-USA

1828 L Street, N.W., Suite 1202, Washington, D.C. 20036-5104

Contact: Chris McManes

Senior Marketing Communications/Public Relations Coordinator

Phone: + 1 202 785 0017, ext. 8356 E-Mail: c.mcmanes@ieee.org

University of South Alabama Dean Becomes IEEE-USA President Amid Concerns about the Offshoring of High-Tech Jobs

WASHINGTON (23 January 2004) - Dr. John W. Steadman, Dean of the College of Engineering at the University of South Alabama, became president of IEEE-USA on New Year's Day. Steadman served as the organization's president-elect in 2003.

Steadman began his one-year term concerned about the continuing transfer of engineering and other high-tech jobs overseas (offshoring), and its impact not only on U.S. IEEE members, but also on U.S. national security and economic growth. IEEE-USA is in the process of developing a formal offshoring position statement that will include public-policy recommendations.

"The problem facing the United States is not how to stop offshoring, but how to ensure that the nation remains a technology leader in the face of strong international competition fueled by offshoring American technology and intellectual property," Steadman said. "To do that, the U.S. government needs an innovative strategy that makes it advantageous for industry to create and retain high-wage, high-value-added manufacturing and service-sector jobs here."

See <http://www.ieeeusa.org/forum/issues/H1bvisa/steadmanq&a04.html> for more on Steadman's views on offshoring.

Before joining South Alabama in August 2003, Steadman served as head of the Department of Electrical and Computer Engineering at the University of Wyoming since 1989. He had worked at the university in various capacities, including faculty member and associate dean of engineering, for 32 years. Steadman also worked for General Dynamics in San Diego, and served as a distinguished visiting professor at the United States Air Force Academy.

A licensed professional engineer, Steadman was appointed to the Engineering Registration Board in Wyoming and served 16 years for three Wyoming governors. He chaired several committees in the National Council of Examiners for Engineering and Surveying (NCEES), and was president in 1993-94. His awards include the IEEE-USA Citation of Honor, the NCEES Distinguished Service Award and the AT&T Award for Excellence in Teaching.

Steadman, a native of Cody, Wyo., received his bachelor's and master's degrees in electrical engineering from the University of Wyoming, and his doctorate from Colorado State University. He has served as chair of IEEE-USA's Licensure and Registration Committee and is a former IEEE-USA vice president for career activities. As IEEE-USA president, he will work closely with Past President Jim Leonard of St. Charles, Mo., and President-Elect Gerard Alphonse of Princeton, N.J.

Steadman and his wife Sally, an engineering faculty member at South Ala-

## IEEE-NEWS - CONT.

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bama, live in Daphne, Ala.

IEEE-USA is an organizational unit of The Institute of Electrical and Electronics Engineers, Inc., created in 1973 to advance the public good, while promoting the careers and public-policy interests of the more than 225,000 electrical, electronics, computer and software engineers who are U.S. members of the IEEE. The IEEE is the world's largest technical professional society with more than 360,000 members in 150 countries. For more information, go to <http://www.ieeeusa.org>.

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## IEEE-CAREER ALERT

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IEEE CAREER ALERT for 21 January 2004

Your weekly report on jobs, education, management, and the engineering workplace, from the editors of IEEE Spectrum

### IN THIS ISSUE:

1. New Report on Lack of Faculty Diversity at Top U.S. Research Schools
2. Internet Begins to Spawn New Jobs
3. Preparing Effective Visuals
4. Goodbye to E-mail
5. Which is Worse: Hypocrisy or Financial Misdeeds?

### 1. New Report Finds Lack of Faculty Diversity at Top U.S. Research Schools

The first comprehensive survey of the top 50 U.S. math, science, and engineering departments finds that women are severely underrepresented among the professoriate, despite their recent gains in earning doctorates in those fields. In 2002, for example, women earned 11.7 percent of the Ph.D.s in electrical engineering, but held only 6.5 percent of the faculty positions in the top 50 EE departments. The survey, by Donna J. Nelson and Diana C. Rogers of the University of Oklahoma, is available at

<<http://cheminfo.chem.ou.edu/faculty/djn/diversity/top50.html>>

### 2. Internet Begins to Spawn New Jobs

With cash-strapped dot-coms laying off employees and closing in recent years, few job hunters or recruiters have looked to the Internet as a source of new jobs. But lately, survivors of the Internet-based Darwinian struggle have been recovering along with the economy. At the same time, a new kind of Internet-based company — businesses that help integrate the Internet into the corporate mainstream — has taken shape. And they're looking to hire skilled project managers and engineers who can help corporate customers use the Internet for tasks ranging from procurement to billing or ensure their Internet transactions and communications are secure. Read on at

<[http://www.careerjournal.com/salaryhiring/industries/computers/20040106-mcgee.html?home\\_whatsnew\\_major](http://www.careerjournal.com/salaryhiring/industries/computers/20040106-mcgee.html?home_whatsnew_major)>

### 3. Preparing Effective Visuals

When you give a presentation, it's usually a good idea to have some sort of visual aid, to keep the audience engaged and help illustrate your main points.

## IEEE-CAREER ALERT-CONT.

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Such visuals can include charts, video clips, photographs, and, of course, PowerPoints. Here are some tips on creating effective and memorable visual aids: <<http://www.todaysengineer.org/Dec03/preparing.asp>>

### 4. Goodbye to E-mail

In the early days of e-mail, only a small fraternity of people — primarily engineers and computer scientists — had e-mail. Since then, spam and viruses “have consumed our beautiful e-mail system,” writes IEEE Spectrum columnist Robert W. Lucky. These days, he says, “I’m reluctant to open my e-mail. Almost none of it is for me anymore. I’m afraid that I will miss the few important messages in the blizzard of offensive commercial entreaties.” Lucky’s modest proposal? “We start all over. We engineers create a new e-mail system just for ourselves. Maybe it just runs on Unix, and it has a very complicated command-line interface. You have to know your stuff to use it.”

<<http://www.spectrum.ieee.org/careers/careerstemplate.jsp?ArticleId=w010404>>

### 5. Workplace Hypocrisy Worse than Financial Misdeeds

When it comes to ethical problems in the workplace, U.S. workers are far more bothered by hypocrisy and favoritism than by financial scandals, according to a recent survey by the employment consulting company Watson Wyatt. While the vast majority of those polled believe their immediate bosses are honest, they were less certain about upper management and coworkers. A news release summarizing the report’s findings is at

<<http://www.watsonwyatt.com/news/press.asp?ID=12305>>

And for more on ethics at work, see “The Ethical Organization” at

<<http://www.spectrum.ieee.org/careers/careerstemplate.jsp?ArticleId=w120102>>

### ANNOUNCEMENT

The IEEE Job Site, available exclusively to IEEE members, can help you locate career opportunities easily and confidentially. Just complete a profile of your qualifications and requirements, and you’ll be notified via email when a suitable job becomes available.

IEEE Job Site was recently named one of the top online recruitment sites by Weddle’s Guide to Employment Web Sites. And top employers know that IEEE members are the most qualified electrotechnology and information-technology professionals in the world. Take a few minutes to register with the IEEE Job Site and check out your career options today!

<<http://www.ieee.org/jobs>>

IEEE Career Alert is prepared weekly by the editors of IEEE Spectrum, the flagship magazine of the Institute of Electrical and Electronics Engineers, read by more than 360,000 people worldwide. You’ll find IEEE

Spectrum’s home page at:

<<http://www.spectrum.ieee.org>>

# EXECUTIVE COMMITTEE HOUSTON SECTION IEEE

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Gil Dolor, Lyondell Chemicals, Chairman.....	713-309-2023
Scott Ballew, Lyondell Chemicals, Vice-Chairman.....	713-309-7721
Charles Benard, Dow Chemicals, Secretary.....	713-978-3790
Polo Gutierrez, Tesco Corporation, Treasurer.....	281- 721-3911
Dwayne C. Lowry, D.C. Lowry & Associates, Past-Chairman.....	832-515-0078
IEEE HOME PAGE.....	<a href="http://www.ieee-houston.org">http://www.ieee-houston.org</a>

## SOCIETY CHAIRS

Thomas P. O'Brien, United Space Alliance, Communications.....	281-282-5881
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Julia Dang, ABB, Industry Applications.....	713-821-4827
Jeffrey Williams, U of Houston, Multi-Group Electronics.....	713-743-4455
John Lionberger, Burns & McDonnell Engrs.....	713-945-5923
Richard Baraniuk, Rice University, Signal Processing.....	713-285-5132
Dr. Krysz Michalski, Texas A&M University, A.M.L.G. A&M.....	979-845-7591
Joseph Cavallaro, Rice University, Circuits and Systems.....	713-527-4719

## COMMITTEE HEADS

P.J. Donner, Reliant Energy, Arrangements & Awards.....	713-945-7771
OPEN, Conferences.....	
Raymond Joseph, Aarden Control Engr. & Scien, Consultants Network.....	281-343-1607
Paul Barrett, Brazos Valley Consulting, Inc., Continuing Education-Administration.....	713-598-0790
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Shannon Quadros, Choice Condominiums, LLC, Engr Council of Houston.....	713-790-7907
Kristin Morrow, Lyondell Chemicals, GOLD.....	281-862-5138
Ray Schmidt, Lynn Elliott, Membership.....	281-468-2978
John_Lucey, Reliant Energy HL&P, Offshore Tech, Conf.....	713-945-5923
Polo Gutierrez, Tesco Corporation, PACE.....	281- 721-3911
Justo Benitez, Foster Wheeler USA, Programs.....	713-587-3108
Donald G. Dunn, Publications and Advertising.....	281-862-5533
Anil Garg, BMC Software, Student Activities.....	
Jimmy Salinas, SW Bell Telephone, Science Fair Coordinator.....	713-567-8095
Scott Ballew, Lyondell Chemicals, Scholarship.....	713-309-7721

## FREEPORT SUBSECTION OFFICERS

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Mick Bayer, Dow Chemical, Vice Chair.....	979-238-7911
Larry Williams, Dow Chemical, Secretary/Treasurer.....	979-238-9087

## STUDENT BRANCH ADVISOR

Penrose Cofie, Prairie View A&M University.....	409-857-3923
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