



# THE POCKET SCOPE



The Institute of Electrical and Electronics Engineers, Inc.

Volume 54, Number 10

June 2004

## SCOPE NOTES

### June 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.

CED Schedule will be posted in Aug.!

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

On behalf of the section, I want to extend our congratulations to Caroline Smith and Gaurab Chakrabarti. First Place Winner and Runner-up, respectively, at this year's Science Fair. Caroline's project was titled, "The diligence of filaments II: A study of filament life as a function of input voltage." Gaurab's project was based on the nature of sound-heat energy transference in pipe-lines and similar structures. Shannon Quadros, our Science Fair coordinator, said these projects were very interesting and well-deserving. Great job, Caroline and Gaurab!

Just a reminder, the IEEE Houston Section is awarding Education Scholarships. 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, scholarships will be awarded annually to selected applicants. This is our second year to award college scholarships, and, due to the success of the 2003 IEEE - Houston Section Annual Scholarship Golf Tournament, up to three (3) \$1,000 scholarships will be awarded this year. The deadline for applications is July 3, 2004 and both incoming freshman and returning students are eligible. Visit the website for more information (<http://www.ieee-houston.org/>).

The Executive Committee would like to personally thank Dr. Peri Ktonas for his many contributions to IEEE. Peri has been a very active and dedicated IEEE member for more than twenty (20) years and has done an outstanding job leading the EMBS. We will miss him dearly. We are throwing Peri a bon voyage dinner. Please make sure to say your goodbyes to Peri before he leaves for Greece.

If you are interested in getting involved in the local IEEE section, let us know, volunteers are always needed. It is a great way to network with professionals within the electrical engineering community. With approximately 4300 members, we are one of the larger sections within IEEE. Join us at one of the upcoming meetings, we look forward to meeting you.

As always, your Executive Committee looks forward to your feedback and comments. We are here to serve you and ensure that

---

## Chair Message-CONT

---

the programs and content of IEEE provide 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 us.

Gilroy Dolor  
Houston Section Chair

---

## IEEE Career Alert

---

IEEE CAREER ALERT for 5 May 2004

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

### IN THIS ISSUE:

1. U.S. Tech Hiring Revives, Sort of
2. Mixed News for New Grads
3. Making the Most of Job Fairs
4. The Art of Brainstorming

#### 1. U.S. Tech Hiring Revives, Sort of

After three long years of decline, the U.S. engineering job market is finally showing some signs of life, at least according to recent reports in the Wall Street Journal, Business Week, and other publications. It's only a whisper of a recovery, to be sure. The Journal puts new tech hiring at "fewer than 20 000 jobs since late last year," mostly at smaller companies. Business Week sees Silicon Valley jobs "shifting out of the software and information-services industries into health care and biotech." Meanwhile, the IEEE-USA reports that the jobless rate for U.S. EEs grew to 5.3 percent in the first quarter of 2004; computer scientists and systems analysts fared even worse, experiencing an all-time high jobless rate of 6.7 percent. Read on at

<<http://www.careerjournal.com/salaryhiring/industries/computers/20040503-thurm.html>>

<[http://www.businessweek.com/technology/content/feb2004/tc2004024\\_4516\\_tc044.htm](http://www.businessweek.com/technology/content/feb2004/tc2004024_4516_tc044.htm)>

<<http://www.ieeeusa.org/releases/2004/050404pr.html>>

#### 2. Mixed News for New Grads

Hiring of recent U.S. college graduates is expected to climb this year for the first time since 2001, according to the National Association of Colleges and Employers. However, employers surveyed by NACE expect to trim college internships and cooperative education programs slightly this year. Starting salaries for graduates hired over the winter were mixed: computer science graduates' salaries rose 7.5 percent over last

## IEEE Career Alert-cont.

year, to \$50 000, but electrical engineering grads' increased by only 0.4 percent, to \$50 800. To read more from the NACE surveys, go to <<http://www.nacweb.org/press/default.asp>>

### 3. Making the Most of Job Fairs

Although the Internet becomes the medium of choice for job searching, jobs fairs and other career events still have their place. Among other things, they provide opportunities to meet face to face with company representatives. So what can you do to make the most of time spent at a job fair? <<http://www.todaysengineer.org/Apr04/career.asp>>

### 4. The Art of Brainstorming

Two heads are better than one as long as both are actively trying to accomplish the same goal. But under different circumstances, those same two heads can achieve less together than either could alone. As IEEE Computer columnist Bob Colwell notes, a number of factors affect the success of a brainstorming session: <<http://www.computer.org/computer/homepage/0404/random/index.htm>>

+++++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 IEEE, read by more than 360,000 people worldwide. You'll find IEEE Spectrum's home page at: <<http://www.spectrum.ieee.org/>>

IEEE Career Alert is part of the WHAT'S NEW@IEEE email news service. For more information on subscribing to other WHAT'S NEW newsletters, visit  
 <<http://whatsnew.ieee.org/>>

---

Copyright 2004 IEEE, Inc.

## IEEE Houston Section Scholarships 2004

---



### 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

## New Senior Members

---

### Looking for Senior Member Nominations

**Congratulations to the following Houston Section Members on their recent membership elevation in May:**

*Carl L. Benner*

*Edward W. Knightly*

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 you are retired and have met the criteria at one time let's 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. This is an achievement award that honors our deserving members.

## New Features on IEEE Job Site

---

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/texis/moopy?>

## IEEE USA NEWS

---

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](mailto:c.mcmanes@ieee.org)

### **Unemployment Rate for Electrical Engineers and Computer Scientists Jumps in the First Quarter**

WASHINGTON (4 May 2004) - The number of employed U.S. electrical and electronics engineers (EEs) continues to decline, according to first-quarter data compiled by the Department of Labor's Bureau of Labor Statistics (BLS).

BLS reported 327,000 employed EEs in the first quarter of 2004 vs. 386,000 in the second quarter last year, a decline of 59,000. The figure was 349,000 in the fourth quarter.

The EE unemployment rate increased from 4.5 percent in the final quarter of 2003 to 5.3 percent in the first quarter of 2004, an increase of 17.8 percent. The average for 2003 was a record 6.2 percent, compared to the more typical 1.3 in 2000 and 2.0 in 2001.

The joblessness rate for computer scientists and systems analysts, which averaged a record 5.2 percent last year, went from 5.4 percent in the fourth quarter to an all-time high of 6.7 in the first quarter, a 24.1 percent rise. The number of people employed in the field averaged 722,000 in 2003; the first-quarter figure was down to 672,000.

"The latest statistics indicate that times are still tough for engineers," IEEE-USA President John Steadman said. "The continued shrinkage of the electrical and electronics engineering workforce should send up warning flags that the United States may be losing ground in its technological competitiveness."

The news was mixed in other computer and information technology fields. The quarterly unemployment rate for computer hardware engineers fell from 9.0 percent in the fourth quarter to 4.9 in the first quarter. Computer software engineers experienced a drop from 4.5 percent to 3.3. The unemployment rate for computer programmers, however, nearly doubled from 4.6 percent to 9.0.

IEEE-USA is an organizational unit of the IEEE. It was created in 1973 to advance the public good and promote the careers and public-policy interests of the more than 225,000 technology professionals who are U.S. members of the IEEE. The IEEE is the world's largest technical professional society. For more information, go to <http://www.ieeeusa.org/>.

## IEEE USA NEWS

---

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](mailto:c.mcmanes@ieee.org)

### IEEE-USA Signs Coalition Statement Urging Solution to Visa-Processing Crisis for International Students, Scholars and Scientists

WASHINGTON (13 May 2004) - IEEE-USA President John Steadman signed a joint statement Wednesday urging the federal government to solve the current visa-processing crisis by adopting six recommendations to streamline the admittance of international students, scholars and scientists.

IEEE-USA was one of 20 science, higher education and engineering organizations, including the American Association for the Advancement of Science (AAAS) and the Association of American Universities, to endorse the statement sent to U.S. policymakers.

Between 2000 and 2002, the number of non-immigrant visa applications flagged for review under the U.S. Visas Mantis screening program had risen from about 1,000 to 14,000. This has helped create a massive logjam of pending applications, preventing students from attending school and scientists from participating in scholarly research and conferences.

While “the need to ensure national security is indisputable,” AAAS CEO Alan I. Leshner said, “legitimate applications from scholars and students seeking to improve human welfare must not become snared in red tape. Scientific advances to combat HIV and AIDS, hunger, terrorism and many other crises will require the insights and contributions of scholars from many regions.”

For more on the statement and its specific recommendations, see <http://www.aaas.org/news/releases/2004/0512visa.shtml>.

IEEE-USA is an organizational unit of the IEEE. It was created in 1973 to advance the public good and promote the careers and public-policy interests of the more than 225,000 technology professionals who are U.S. members of the IEEE. The IEEE is the world's largest technical professional society. For more information, go to <http://www.ieeeusa.org/>.

## IEEE USA NEWS

---

NEWS from IEEE-USA

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

Contact: Pender McCarter, APR, Fellow PRSA

Director of Communications and Public Relations

Phone: + 1 202 785 0017, ext. 8353

E-Mail: [p.mccarter@ieee.org](mailto:p.mccarter@ieee.org)

### IEEE-USA Cites Concern About Rules on Access BPL Systems in FCC Filing

WASHINGTON (10 May 2004) - In a filing with the Federal Communications Commission (FCC) last week, IEEE-USA raised concerns about proposed FCC rules on Access Broadband over Power Line (BPL) systems.

IEEE-USA expressed concerns about interference to the licensed users of HF spectrum, and concerns about interference to Access BPL systems from those users. The organization noted the potential negative impact of such interference on the ultimate reliability of Access BPL as a means of delivering broadband service to users. It cited possible adverse effects on many uses that are critical to national security, homeland defense, and emergency and disaster communications.

IEEE-USA called for additional studies to evaluate the efficacy of any proposed interference-mitigation techniques. According to the organization, the FCC should not prematurely promulgate rules in the absence of such proof.

Finally, IEEE-USA called on the FCC to extend the deadline for reply comments by at least 30 days - preferably 45 days - beyond the current deadline of 1 June to allow interested parties sufficient time to review and consider the content of a National Telecommunications and Information Administration report and other studies that are expected to be submitted in the initial comment phase. The IEEE-USA filing is accessible at [http://gullfoss2.fcc.gov/prod/ecfs/retrieve.cgi?native\\_or\\_pdf=pdf&id\\_document=6516183235](http://gullfoss2.fcc.gov/prod/ecfs/retrieve.cgi?native_or_pdf=pdf&id_document=6516183235).

In addition, the IEEE Standards Association and IEEE Power Engineering Society are holding a "Call for Interest in Standards Development for Broadband over Power Lines" meeting in Denver on 7 June.

For more information, visit

[http://standards.ieee.org/announcements/pr\\_bplinvite.html](http://standards.ieee.org/announcements/pr_bplinvite.html).

IEEE-USA is an organizational unit of the IEEE. It was created in 1973 to advance the public good and promote the careers and public-policy interests of the more than 225,000 technology professionals who are U.S. members of the IEEE. The IEEE is the world's largest technical professional society. For more information, go to <http://www.ieeeusa.org/>.

## IEEE Institute NEWS

---

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>>

### IN THIS ISSUE:

1. President's Column: A Ruling in Our Favor
2. Question the Candidates
3. Marketplace of Ideas: Undergrad Numbers Fall
4. Digital Library Offers Shorter Subscriptions
5. Member Profile: In a Family of Fellows
6. Conference Spotlights Sister Technologies
7. 2003 Neural Networks Conference Papers Go on Sale

### SPONSORED BY:

Free APC Webcast. Is it impossible to attain a highly available, flexible, lower-cost IT installation? What's really behind all this talk of new strategies that leave traditional methods to data center design in the dust? Click here and view now.

<<http://www.accelacomm.com/jlp/q689y/0/10001766/>>

### 1. President's Column: A Ruling in Our Favor

In early April, the IEEE received good news. The Office of Foreign Assets Control at the U.S. Department of the Treasury ruled that the peer review, editing, and publication of manuscripts submitted to the IEEE by authors in U.S.-embargoed countries, including Cuba, Iran, Libya, and Sudan, can be conducted free of U.S. government restrictions. Read what President Arthur Winston had to say about the ruling at

<[http://www.theinstitute.ieee.org/portal/index.jsp?pageID=institute\\_level1\\_article&TheCat=1009&article=tionline/legacy/inst2004/may04/5w.featurepresident.xml](http://www.theinstitute.ieee.org/portal/index.jsp?pageID=institute_level1_article&TheCat=1009&article=tionline/legacy/inst2004/may04/5w.featurepresident.xml)>

### 2. Question the Candidates

The IEEE Philadelphia Section will host a debate among candidates for IEEE President-Elect on 22 June in Philadelphia, USA. Make your voice heard. Submit questions to The Institute's editor that you would like her to ask Michael Lightner, James Tien, and Levent Onural. Time will not allow her to ask every question, but she will select a representative sample. Send them to

<<mailto:institute@ieee.org>>

### 3. Marketplace of Ideas: Undergrad Numbers Fall

The Computing Research Association's annual survey of more than 200 universities in the United States and Canada showed that the number of undergraduates enrolled in computer science and computer engineering was down 23 percent in 2003 from the year before. Why are fewer students choosing these fields for their careers? What can be done to reverse this trend? Weigh in at <<mailto:institute@ieee.org>>

### SPONSOR'S NOTICE:

Originally written to answer customer's recurring questions, QuadTech's Testing Guides have become the most requested and downloaded information on QuadTech.com. The Electrical Safety Testing Reference Guide, LCR Measurement Primer and Cable Testing Overview provide detailed information including theory discussions, mathematical terms & equations, measurement techniques, compliance & standard requirements, concrete examples and test

## IEEE Institute NEWS-cont.

---

setup illustrations. Download your complimentary copies today at <http://www.quadtech.com/resources/testingguides/ieee.asp>.

### 4. Digital Library Offers Shorter Subscriptions

Six-month subscriptions are now available to the IEEE Member Digital Library. Subscribers can access up to 25 articles a month from among all the IEEE journals, conference proceedings, and magazines stored in IEEE Xplore, the institute's document delivery system. Find out more at [http://www.theinstitute.ieee.org/portal/index.jsp?pageID=institute\\_level1\\_article&TheCat=1010&article=online/legacy/inst2004/may04/5w.productsMDL.xml](http://www.theinstitute.ieee.org/portal/index.jsp?pageID=institute_level1_article&TheCat=1010&article=online/legacy/inst2004/may04/5w.productsMDL.xml)

### 5. Member Profile: In a Family of Fellows

This year, Deborah Estrin became an IEEE Fellow, just as both of her parents had decades ago. Estrin is the director of the Center for Embedded Network Sensing at the University of California, Los Angeles, where she is also a professor of computer science. Read more about this family of fellows at [http://www.theinstitute.ieee.org/portal/index.jsp?pageID=institute\\_level1\\_article&TheCat=1016&article=online/legacy/inst2004/may04/5w.profileestrin.xml](http://www.theinstitute.ieee.org/portal/index.jsp?pageID=institute_level1_article&TheCat=1016&article=online/legacy/inst2004/may04/5w.profileestrin.xml)

### 6. Conference Spotlights Sister Technologies

Are you feeling fuzzy about fuzzy logic or nervous when it comes to neural networks? The two technologies are being used every day by credit card companies and doctors analyzing data from X-rays. Find out what new applications are in store for these fields at joint conferences being held in July in Budapest, Hungary at [http://www.theinstitute.ieee.org/portal/index.jsp?pageID=institute\\_level1\\_article&TheCat=2203&article=online/legacy/inst2004/may04/5w.conference.xml](http://www.theinstitute.ieee.org/portal/index.jsp?pageID=institute_level1_article&TheCat=2203&article=online/legacy/inst2004/may04/5w.conference.xml)

### SPONSOR'S NOTICE:

From group insurance to credit cards to mortgages and everything in between, the IEEE Financial Advantage Program connects you to a variety of non-technical products and services specially negotiated exclusively on behalf of IEEE members and their families. See all we have to offer by visiting us on the web at <http://www.ieee.org/fap>.

### 7. 2003 Neural Networks Conference Papers Go on Sale

If you couldn't attend the 2003 International Conference on Neural Networks and Signal Processing in China last year, you can order the published papers from the IEEE Online Catalog & Store. The conference contributed new information on evolutionary computation, neural modeling and computation, and signal-processing theory and methodology. To purchase the proceedings, visit: <http://shop.ieee.org/store/product.asp?prodno=EX641>

Interested in advertising in The Institute Online Alert? Send an e-mail to <mailto:advert-web@ieee.org>

Copyright 2004, IEEE

# EXECUTIVE COMMITTEE HOUSTON SECTION IEEE

## OFFICERS

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.....	281-565-2316
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
Ernst Leiss, U of Houston, Computer.....	713-743-3359
Peri Klonas, U of Houston, Engr-Medicine & Biology.....	713-743-4429
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
Roy Cosse, Powell Electric, Continuing Education-Technical.....	713-948-4019
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

Greg Slingerland, Equistar Chemicals, Chairman.....	409-244-7161
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
Jim Young, Rice University.....	713-348-4721
Walter Daugherty, Texas A&M University (CS).....	979-845-1308
John Tyler, Jr., Texas A&M University (EE).....	979-845-7508
Rainer Fink, Texas A&M University (ET).....	979-845-5966
Pierre Catala, Texas A&M University (COM).....	979-845-4948
Shahryar Darayan, Texas Southern University.....	713-313-4224
Ovidiu Crisan, University of Houston (EE).....	713-743-4432
Heidar Malki, University of Houston (ET).....	713-743-4075

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.

IEEE members make change of address notices via the IEEE website: [www.ieee.org](http://www.ieee.org).

## Newsletter Staff

Editors: Lisa Nichols-Dunn, 281-426-4784  
E-mail:

[lnicholsdunn@aol.com](mailto:lnicholsdunn@aol.com)

Advertising: 281-426-4784



THE POCKET SCOPE  
IEEE Houston Section  
P.O. Box 460443  
Houston, TX 77056-8014

NON-PROFIT  
ORGANIZATION  
U.S. POSTAGE  
PAID  
HOUSTON, TEXAS  
Permit No. 6513