



THE POCKET SCOPE



The Institute of Electrical and Electronics Engineers, Inc.

Volume 54, Number 12

August 2004

SCOPE NOTES

August Houston Section News

here:
ESS (Houston Engineering and Scientific Society)
430 Westheimer@Yorktown

hen: 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

ost:
10.00 - IEEE Members with 48-hour advance reservations.
20.00 - non-members
5.00 - students
all (713) 207-IEEE to make your reservations.

See Page 3 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

Summer is out, school is getting back in session, and the Houston Section will begin the second half of 2004.

We've had a great year so far, and I expect greater things for the second half of the year. Thank you all for your efforts and contributions. We have several activities, as

well as some interesting speakers lined up for the remainder of the year.

Come and join us at the next section meeting on September 23, 2004!

The speaker for the September meeting will be Darby Vicker. Since graduating from Iowa State University in May 2000, Darby has been working in the Applied Aeroscience and CFD group, EG3, at NASA's Johnson Space Center. His experience includes applying the Chimera CFD technique to the X-38 Crew Return Vehicle and the Space Shuttle Launch Vehicle. The topic of discussion at the section meeting is titled "Computational Fluid Dynamics Analysis for the STS-107 Accident Investigation and Return-To-Flight Effort."

Our 3rd Annual IEEE-Houston Scholarship Golf Tournament is fast approaching. Mark your calendars and set aside October 15 to participate in this event. Proceeds from the event will go to providing \$1,000 scholarships to Section member family and children. Due to the success of the 2nd Annual Scholarship Tournament, we will be awarding five (5) scholarships this year and look forward to increasing that number further in 2005. Come join us for a wonderful time. We need your support!

The word got out about the five (5) scholarships being awarded this year. We have received many scholarship applications to consider. Thank you for applying and I wish you the best of luck. We will be announcing the scholarship winners in the next few weeks.

We have a call for Sections Congress (SC) 2005 Speakers. The SC 2005 Program Committee is accepting nominations for session speakers. SC 2005 will be held October 14-17 2005 at the Tampa Marriott Waterside, Tampa, Florida, USA. The theme of the event is "Promoting a World-Class Volunteer Community". The three program tracks are: Membership; Section Operations; and Relationships. The Relationships track is entirely new for 2005, and will address the relationships between IEEE Sections and internal and external organizations and the community.

To nominate a speaker, visit <http://www.ieee.org/sc2005> and click on "Nominate a Speaker". Each submission allows for three speaker nomina-

CONTINUED ON PAGE 2

Chair Message-CONT

tions. If you'd like to submit more speaker nominations, please submit another form. The deadline for submitting speaker nominations is September 15, 2004.

Remember the Executive Committee and I look forward to your feedback comments. If you are interested in getting involved in the local IEEE section, let us know, volunteer members are always needed. I encourage all of you to become more active, and see the rewards and benefits your membership gives you. It is a great way to network with professionals within the electrical engineering community. Join us at one of the upcoming meetings, we look forward to meeting you.

Gilroy Dolor
Houston Section Chair

September 23 Section Meeting

The next meeting of the IEEE Houston Section will be held Thursday, September 23rd, 2004.

Please RSVP via calling (713) 207-IEEE to make your reservations by Tuesday September 21st, 2004. 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 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.

Topic: Computational Fluid Dynamics Analysis for the STS-107 Accident Investigation and Return-To-Flight Effort

[DESCRIPTION TO FOLLOW]

Speaker: Darby Vicker graduated with a B.S. in Aerospace Engineering from Iowa State University in May of 2000. For the past 4 years Darby has been working in the Applied Aeroscience and CFD group, EG3, at NASA's Johnson Space Center. His experience includes applying the Chimera CFD technique to the X-38 Crew Return Vehicle and the Space Shuttle Launch Vehicle.

IEEE CONTINUING EDUCATION ON DEMAND

2004-2005 REGISTRATION FORM



IEEE

IEEE
Houston
Section

2004-2005

Continuing
Education
On Demand



Name:
Company:
Mailing Address:
City/State:
Zip:
Email:
Telephone:
Fax:
IEEE Membership Number:

Seminar Title	C code	Date	Amount
Arc Flash / Arc Resistance	705	Oct. 12/13	\$
Protective Relay 1 Beckwith	311	Oct. 26/27	\$
IEC Electrical Equipment	802	Nov. 9/ 10	\$
Protective Relay 2 Multilin	312	Feb. 1/2	\$
IEC - NEC Area Classification	803	Feb. 15/16	\$
Protective Relay 3 Basler	313	Mar. 1/2	\$
Field Testing of Large Power Transformers	904	Mar. 15/16	\$
Protective Relay 4 SEL	314	Mar. 29/30	\$
National Electric Code	920	Apr. 12/13	\$
Advanced MV Switchgear and Breaker Stds	307	Apr. 26/27	\$
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

Enter amount for each seminar:

The purpose of IEEE Houston Section Continuing Education on Demand is to provide modern practical industrial power application topics that supplement the daily work activities of the practicing graduate electrical engineer.

IEEE member registration: \$120.00
IEEE member early signup: \$ 70.00
Non-member registration: \$200.00

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.

Fall of 2004 IEEE Seminar Schedule

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

Arc Flash / Arc Resistance (705)

James Bowen, Powell Electric Mfg. Co.

Oct. 12/13, 2004 6:00-8:50PM

Review of fundamentals and design theories. Post event forensic observations and lessons learned.

[0.5 CEU]

The cost of each seminar is \$120.00 for IEEE members. "Early Signup" is \$70.00 and the check must be received the Friday before the seminar start date. The cost for non-IEEE members is \$200.00, which includes the annual fee for IEEE Membership. Signing up the week of the seminar does not guarantee seminar presentation documents or meals.

Protective Relay 1 - Beckwith (311)

Wayne Hartmann, Beckwith Electric Co.

Oct. 26/27, 2004 6:00-8:50PM

Review of Beckwith relay design fundamentals and application considerations

[0.5 CEU]

The following 2004-2005 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.

IEC Electrical Equipment (802)

Tom Malone, Areva T&D Corp.

Nov. 9/10, 2004 6:00-8:50PM

Reviews IEC guidelines and standards for electrical distribution equipment. Presentation will focus on power transformers and switchgear.

[0.5 CEU]

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

Spring of 2005 IEEE Seminar Schedule

Protective Relay 2 - GE Multilin (312)

Jackov Viko, GE Multilin -Canada

Feb. 1/2, 2005 6:00-8:50PM

Review of GE Multilin Relay design fundamentals and application considerations.

[0.5 CEU]

IEC / NEC Area Classification (803)

Bob Johnson, Source IEC

Feb. 15/16, 2005 6:00-8:50PM

A detailed presentation on IEC's approach to hazardous area classifications and related international standards.

[0.5 CEU]

Protective Relay 3 - Basler (313)

Gerald Dalke, Basler Electric Co.

Mar. 1/2, 2005 6:00-8:50PM

Review of Basler relay design fundamentals and application considerations.

[0.5 CEU]

Field Testing of Large Power Transformers (904)

Randy Slaybaugh, Substation Services, Inc.

Mar. 15/16, 2005 6:00-8:50PM

A detailed presentation on field testing techniques and considerations for large power transformers.

[0.5 CEU]

Protective Relay 4 - SEL (314)

David Costello, SEL Inc.

Mar. 29/30, 2005 6:00-8:50PM

Review of SEL relay design fundamentals, set-up, programming and application considerations.

[0.5 CEU]

National Electric Code (920)

Eddie Guidry, Fluor Corp.

April. 12/13, 2005 6:00-8:50PM

Review and update on current NEC. Lecture will focus on design issues and application considerations.

[0.5 CEU]

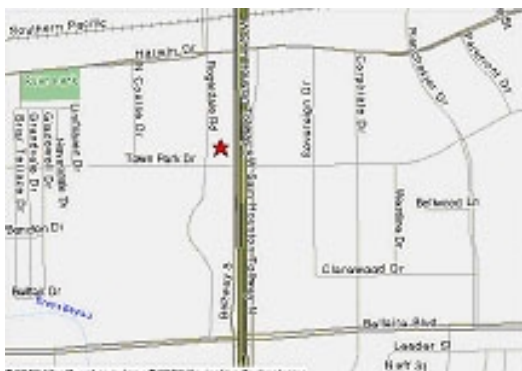
Advanced MV Switchgear and Breaker Stds. (310)

James Bowen, Powell Electric Mfg. Co.

Apr. 26/27, 2005 6:00-8:50PM

Reviews advanced theories and application considerations related to MV Swgr and Ckt Bkr design.

[0.5 CEU]



Houston Section CED Seminar on the East Side



**IEEE
Houston
Section**

2004-2005



**Continuing
Education
On Demand**

IEEE CED Digital Communications Seminar

IEEE CED Houston will be presenting an 8 hour technical seminar on Digital Communications for industrial plants. The all day seminar is scheduled for October 22 and will held at the Powell Electric training facility, 8550 Mosley Road. (8:00-5:00) This presentation will be an in-depth technical review of relay communication protocols, data networks, serial data communications, and related subjects. The subject material will be presented by Mark Adamiak, P.E., a GE engineer with an outstanding reputation for expertise in digital communications. All attendees will receive an IEEE CED certificate for 0.7 CEU (7 hours). Cost for this all day seminar is \$70 per person and includes lunch. Seating is limited so send in your reservations early.

The following information is required with your reservation:

Name: _____ Company: _____

Address: _____

Telephone: _____ Fax: _____

Email _____

IEEE Membership Number: _____

Make Checks payable to IEEE CED Seminars. Send to:

IEEE CED Seminars

Pat Rogers

Southwest Power

425 Blueberry St., Houston, TX 77018

progers @swpower.com 713.696.9922 Fax 713.696.9983

Seminar questions: Contact Paul Barrett 713.598.0790

October 28 Section Meeting

October 28, 2004 Section Meeting

Topic: Building Six Sigma- Based Process Improvement Systems

Consensus Strategies partner with organizations to build customized systems tailored to meet the unique company needs and culture. It integrates into your organization the concepts of:

- a measurement system
- a process orientation
- customer focus
- team-oriented management
- continuous performance improvement

Speaker: Mona K. Draper, the only GE certified six sigma consultant in the Houston area, worked 20 years in industry prior to becoming a consultant. While working in the energy arena as an internal consultant, she designed and implemented a process improvement system that demonstrated increased profitability and reduced operating costs. She is one of a group of seven consultants selected out of 500 applicants by GE Capital Services to train their leaders in GE's Six Sigma process improvement philosophy. She consults with both service and manufacturing companies in six sigma-based process improvement systems as well as all facets involved in organizational change management. Pete Pande acknowledges her contribution to the best selling management book *The Six Sigma Way*. Ms. Draper holds a MS in Statistics and has published papers in regression analysis, forecasting, facilitation and six-sigma based process improvement.



New Senior Members

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

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 Career Alert

IEEE CAREER ALERT for 29 Jul 2004

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

IN THIS ISSUE:

1. Survival Skills for Young Professionals
2. Mixed Numbers on U.S. High-Tech Employment
3. U.S. Patent Office Is Hiring
4. Organizing in Retrospect

1. Survival Skills for Young Professionals

Today's engineering graduates are expected by their employers to step right off campus armed with the skills for organizing projects, leading teams, and dealing with difficult managers. But project management and interpersonal communications aren't typically taught in engineering schools. How do you acquire such skills? Read on at

<http://www.theinstitute.ieee.org/portal/index.jsp?pageID=institute_level1_article&TheCat=2201&article=tionline/legacy/inst2004/jul04/7w.featuregold.doc.xml>

2. Mixed Numbers on U.S. High-Tech Employment

The number of employed computer software engineers in the United States fell from 856,000 in the first quarter of this year to 725,000 in the second quarter, according to the Department of Labor. Employed computer scientists and systems analysts also saw a decline, from 672,000 to 621,000, while computer hardware engineers dropped from by 3000, to 83,000. While the job market for computer professionals may be weakening, the number of employed EEs rose by 24,000 to 351,000 over the same period. The latest unemployment figures are summarized in a statement from IEEE-USA, accessible at

<<http://www.ieeeusa.org/releases/2004/072604pr.html>>

3. U.S. Patent Office Is Hiring

Deluged with patent applications it needs to process, the U.S. Patent and Trademark Office is hiring patent examiners with special expertise in engineering and computers. Legal experience is not required, but technical expertise is. If you happen to be in the Washington, D.C. area on August 5-6, consider attending the PTO's job fair for computer engineers, electrical engineers, and computer scientists. For a list of openings, go to

<<http://www.uspto.gov/web/offices/ac/ahrpa/ohr/jobs/jobs.htm>>

And for a backgrounder on working in patent law, see this story from the IEEE Spectrum archives

<<http://www.spectrum.ieee.org/careers/careerstemplate.jsp?ArticleId=i040202>>

4. Organizing in Retrospect

Looking back on a successful project, it's easy to overlook the many bumps along the road. But nothing in life proceeds in a perfectly smooth and organized fashion. Things are invariably messy and ill-defined. Decisions are often ambiguous and based on incomplete information. The workers sometimes pay little attention to what management is deciding. And yet, writes IEEE Spectrum columnist Robert Lucky, once the work is done, we insist on imposing order and organization—in retrospect. Why is that? Read on at

<<http://www.spectrum.ieee.org/careers/careerstemplate.jsp?ArticleId=w070604>>

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

IEEE Career Alert

IEEE CAREER ALERT for 4 Aug 2004

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

IN THIS ISSUE:

1. Baby Boomers Confront Age Bias
2. Demand for Phased Retirement Programs Grows
3. Older Managers Often Struggle After Layoffs
4. Cosmetic Surgery and Job Security

1. Baby Boomers Confront Age Bias

The impending explosion of the aging populace in the United States, Europe, and elsewhere is expected to substantially increase the incidence of age discrimination. In his essay, "Beyond Age Bias: Successfully Managing an Older Workforce," Sheldon Steinhauser, a sociologist and expert on age bias, sums up the issues that companies will encounter as the population ages, and suggests strategies to reduce age bias in the workplace. These include confronting generational stereotypes, expanding on-the-job training to prevent workers' skills from becoming obsolescent, and altering hiring and screening processes. Read on at <http://clem.msced.edu/~steinhas/beyond_bias.htm>

2. Demand for Phased Retirement Programs Grows

Rather than simply pocketing their gold watch and walking off into full-time retirement, more professionals these days are opting to continue working part time in some capacity. Employees who choose a phased retirement path often enjoy flexible work arrangements, such as telecommuting and job sharing, and they can supplement their retirement income. Read on at <<http://www.todaysengineer.org/July04/retirement.asp>>

3. Older Managers Often Struggle After Layoffs

A recent Wall Street Journal article takes note of the growing population of laid-off managers and executives in their late 40s or 50s who can't find new jobs. Some respond by starting their own businesses, the article states, "but others have essentially been forced into early retirement, sometimes many years short of their financial goals." Read the full story at <<http://www.careerjournal.com/columnists/inthelead/20040721-inthelead.html>>

4. Cosmetic Surgery and Job Security

Also from the Wall Street Journal, a story on how cosmetic surgery, botox and other de-aging skin treatments are becoming "de rigeur for baby-boomer executives of both sexes who fear being judged as over the hill. So many 50-something managers have suffered layoffs and early retirement that survivors in this age bracket feel pressured to look and act as young as possible to hang onto their posts." Read on at <<http://www.careerjournal.com/columnists/inthelead/20040218-inthelead.html>>

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 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 USA NEWS

NEWS from IEEE-USA

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

Contact: Chris McManes

Senior Public Relations Coordinator

Phone: + 1 202 785 0017, ext. 8356

E-Mail: c.mcmanes@ieee.org

High-Tech Employment Shrinks in Second Quarter, Despite Positive Signs on Unemployment Rates

WASHINGTON (26 July 2004) - The number of employed computer professionals dropped from the first to second quarters, according to data compiled by the Department of Labor's Bureau of Labor Statistics (BLS). At the same time, high-tech unemployment rates also fell.

BLS reported a decline of 131,000 employed computer software engineers in the second quarter vs. the first quarter (725,000 vs. 856,000). Employed computer scientists and systems analysts have fallen 51,000 (621,000 vs. 672,000) during the same period, while computer hardware engineers dropped 3,000 (83,000 vs. 86,000). Computer programmers experienced a fall of 16,000 (575,000 vs. 591,000).

Bucking the trend, the number of employed electrical and electronics engineers (EEs) rose by 24,000 from the first to second quarters (351,000 vs. 327,000). The increase, however, is still below the 363,000 quarterly average in 2003.

"The EE employment figure is encouraging, and we're interested to see if the trend continues," IEEE-USA President John Steadman said. "But we're most concerned with our shrinking high-tech workforce, much of which is attributable to the offshoring of high-tech jobs."

BLS reported the EE unemployment rate, which stood at 5.3 percent in the first quarter, was 0.8 percent in the second quarter. While the increase in EE employment would indicate a falling unemployment rate, sampling errors could account for the substantial quarterly decrease, according to statistical consultant Richard Ellis of Ellis Research Services. A rate for computer hardware engineers wasn't reported because no one in this job classification among the survey population claimed to be unemployed last quarter.

The unemployment rate for computer software engineers fell from 3.3 percent in the first quarter to 2.9 percent in the second. For computer scientists and system analysts, the rate went from 6.7 percent to 4.0 percent; for computer programmers it fell from 9.5 percent to 5.7 percent.

"Sadly, part of the unemployment improvements might be because some technical professionals have become discouraged and are leaving the field," Steadman said.

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

From Washington, D.C.: IEEE-USA NEWS & VIEWS E-MAIL ALERT for 30 July 2004

Your Monthly U.S. IEEE Member E-mail Alert on “Building Careers & Shaping Public Policy”

<http://www.ieeeusa.org/>

IN THIS ISSUE:

1. IEEE-USA President's Column Highlights Need for Visa Processing Reforms
2. IEEE-USA Intellectual Property Committee Testifies on Copyright Infringement Bill
3. This Month's *IEEE-USA TODAY'S ENGINEER* Webzine Covers Bush/Kerry Stances on Tech Issues, Plus Articles on Exports, Phased Retirement, Innovation
4. IEEE-USA to Cosponsor Conference on Ethics and Changing Energy Markets, 28-29 October
5. IEEE-USA Releases Positions on Technology Policy Issues
6. International Public Relations Association Recognizes IEEE-USA for EWeek PR Efforts
7. IEEE-USA Seeks Nominations for 2004 Awards & Recognitions

1. IEEE-USA PRESIDENT'S COLUMN HIGHLIGHTS NEED FOR VISA PROCESSING REFORMS

In his latest column, IEEE-USA President John Steadman focuses on how visa processing reforms could help improve national security and protect scientific collaboration.

To read the full column, go to: <http://www.ieeeusa.org/newspubs/presidentcolumn/Steadman/july04.html>.

2. IEEE-USA INTELLECTUAL PROPERTY COMMITTEE TESTIFIES ON COPYRIGHT INFRINGEMENT BILL

In 22 July testimony on the Inducing Infringement of Copyrights Act (S.2560), IPC Vice-Chair Andrew C. Greenberg testified before the Senate Judiciary Committee, calling for balance in copyright policy.

For more details, read the news release at: <http://www.ieeeusa.org/releases/2004/072204pr.html>.

3. THIS MONTH'S *IEEE-USA TODAY'S ENGINEER* WEBZINE COVERS BUSH/KERRY STANCES ON TECH ISSUES, PLUS ARTICLES ON EXPORTS, PHASED RETIREMENT, INNOVATION

Also for a “World Bytes” column on the digital divide, a “Capitol Shavings” column on legislators contemplating their own demise, and an “Engineering in Pop Culture” feature on technology and the Olympics, read the latest edition of *IEEE-USA TODAY'S ENGINEER* online at: <http://www.todaysengineer.org/>.

4. IEEE-USA TO COSPONSOR CONFERENCE ON ETHICS AND CHANGING ENERGY MARKETS, 28-29 OCTOBER

IEEE-USA is cosponsoring a 28-29 October conference at the University of Notre Dame to explore ethical, market and regulatory issues in the shift from regulated to competitive markets in the electric and gas utility industries.

For more information, read the media alert at: <http://www.ieeeusa.org/releases/2004/070204ma.html>.

IEEE USA NEWS-cont.

5. IEEE-USA RELEASES POSITIONS ON TECHNOLOGY POLICY ISSUES

At its June meeting, IEEE-USA's Board of Directors released new positions on Surface Transportation Security, Existing Nuclear Power Plants, Principles for a Restructured Electric Industry, Voluntary Healthcare Identifiers, and Science and Technology in Support of U.S. Foreign Policy.

To read the position statements, go to: <http://www.ieeeusa.org/forum/POSITIONS/index.html>.

6. INTERNATIONAL PUBLIC RELATIONS ASSOCIATION RECOGNIZES IEEE-USA FOR EWEK PR EFFORTS

IEEE-USA was honored with an international award for excellence in public relations for coordinating the IEEE's lead society participation in National Engineers Week (EWeek) 2004.

Read the news release at: <http://www.ieeeusa.org/releases/2004/070904pr.html>.

7. IEEE-USA SEEKS NOMINATIONS FOR 2004 AWARDS & RECOGNITIONS

IEEE-USA's Awards and Recognition Committee is seeking nominations for its 2004 awards for professionalism, technical achievement, and literary contributions to engineering awareness. The deadline for nominations has been extended to 31 August 2004.

For more information, visit: <http://www.ieeeusa.org/awards/forms.html>.

**FOR THE LATEST NEWS STORIES ABOUT IEEE-USA, VISIT:

<http://www.ieeeusa.org/newspubs/inthenews.html>.

**IEEE-USA DISPLAY IS AVAILABLE FOR SECTION AND SOCIETY CONFERENCES on a first-come, first-served basis. To book the IEEE-USA Display for your conference or meeting, contact IEEE-USA Communications Assistant Helen Hall at +1 202 785 0017, ext. 8354, or at h.hall@ieee.org.

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>](mailto:newsandviews@ieee.org).

Nominations Sought

Nominations Sought For New Faces of Engineering 2005

The successful New Faces of Engineering program highlights the outstanding achievements of young engineers around the world. In 2005, five select IEEE members will be among the New Faces profiled on the EWeek Web site, and the top nominee from each sponsoring society will appear in USA Today during EWeek 2005, 20-26 February. Nominations must be received by Friday, 29 October. For more information and a nomination form, visit

http://www.eweek.org/site/News/Eweek/2005_Nominations.shtml.

For more on last year's New Faces, see

<http://www.eweek.org/site/Engineers/newfaces2004/index.shtml>.

2004 IEEE Elections

The 2004 IEEE Annual Election process is underway — candidates names have been announced, and statements of candidacy and websites for your information, as the constituent, is in preparation. If you would like to be a part of a candidate e-mail list that will be controlled by IEEE staff, and not the candidates themselves, then please click the following URL: <http://www.ieee.org/elections> by 13 August to be subscribed. Please include your name and IEEE member number.

Your contact information will NOT be shared with the candidates. We are taking this initiative in an effort to control what some individuals have called SPAM!

In addition to the IEEE Annual Election web page, to which individuals may link to find out about who's running for various positions, and what their candidate statements contain, there will also be a message sent in late summer by IEEE staff, on behalf of all candidates, who will be on the annual election ballot. This message will not only remind members to vote, but will also provide a short message from each of the candidates as well as the link to their personal candidate information website if one is available.

To reduce or eliminate the perception by members that electioneering is being used to SPAM the membership, allow candidate messages to come through that may contain viruses, or that candidates sending their personal e-mails to members have an unfair advantage over other candidates who might not have that capability, the IEEE Board of Directors has taken seriously the concerns voiced by its membership. In so doing, candidates have been reminded about IEEE policy relative to electioneering. In order for the candidates to reach out with information on how they plan to serve the membership, a standardized way for you to be contacted has been developed. You will be contacted by IEEE staff with information, statements, etc., regarding the annual election. If you wish to be sent such information, you will need to be subscribed to the mailing list that will receive such correspondence in the future.

As mentioned above, If you would like to be a part of a candidate e-mail list that will be controlled by IEEE staff, and not the candidates themselves, then please click the following URL: <http://www.ieee.org/elections> by 13 August to subscribe. Your contact information will NOT be shared with the candidates. URL: <http://www.ieee.org/elections>

If you have IEEE election questions send email to corp-election@ieee.org.

Sincerely,
Arthur W. Winston
2004 IEEE President

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

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.

Newsletter Staff

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

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**