



# THE POCKET SCOPE



*The Institute of Electrical and Electronics Engineers, Inc.*

Volume 52, Number 11

July 2002

## SCOPE NOTES

### July Houston Section News

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

**When:**  
Thursday, September 26, 2002  
6:00 - 6:30 p.m. Social  
6:30 - 7:30 p.m. Dinner  
7:30 - 8:30 p.m. Speaker

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

See Page 2 for the Continuing Education Schedule!

IEEE WEB ADDRESS  
[http://  
\(www.ieee-houston.org\)](http://www.ieee-houston.org)

IEEE Houston Section  
P.O. Box 460014  
Houston, Texas  
77056-8014



## The Chairman's Message

### Donald Dunn

In September, the Houston Section will begin the second half of 2002. There are numerous programs that are provided each year for the membership for free or at a reduced cost. These activities within the section are designed to enhance one's self both professional and personally. I would like to invite all members to take the opportunity for the remainder of this year to become active within the section. The Excom has decided to make all Section Meetings in 2002 free of charge to all IEEE members who attend with advance notice. Our next section meeting is on September 26, 2002, at the HESS building.

The Houston Section CED program will be back in swing starting in October with several courses that cover new and exciting topics. Please take some time and visit the web site to see what will be offered this year. In addition, if there is subject material that you would like to see included in our CED program, please email the suggestions for consideration.

The First Annual IEEE Houston Section Scholarship Golf Tournament was a great success. We are currently working with IEEE Headquarters to develop the charter that will govern the scholarship process. The current plan is to award 2-3 scholarships at the end of the 2002-2003 school year. The scholarships will be for current IEEE Houston Section member's children or grandchildren.

The Houston Section lead Region 5 with the most members upgraded to Senior Member grade in 2001. IEEE has challenge the sections to exceed last years totals by nominating qualified members. I am looking for members who meet the following criteria: for elevation to Senior Member status, 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 lets get you nominated. Section meetings are the best networking tool to achieve senior membership.

The Houston Section is seeking new volunteers, as you all are aware the IEEE is a volunteer organization. We have had several people contact one of the Houston Section officers and a few have attended the monthly Excom meeting. Again, if you are interested in becoming active, please take the time to consider volunteering in some capacity; the return on time invested is well worth it. Contact one of the individuals within the section Excom committee and attend one of our planning meetings. The Excom meets at the HESS building each 4<sup>th</sup> Thursday of the month with the exception of a few summer months. We have many opportunities for you to contribute and to develop a larger network of professionals from which to draw.

## What's NEW @ IEEE GOLD

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WHAT'S NEW @ IEEE FOR GOLD (Graduates Of the Last Decade)  
VOLUME 3      NUMBER 7      JULY 2002

An HTML version of this newsletter can be viewed on our online archive at <http://www.ieee.org/products/whats-new/wngold0702.htm>

### CONTENTS:

1. IEEE Introduces New Careers Website
2. Get the Most from Your Headhunter
3. Learn the Rules of Successful Innovation
4. Enhance Your Resume with Microsoft Certifications
5. Coping in a Tough World: See the Gold (Part I)
6. IEEE Conferences Priced 25% Below Industry Average
7. The Engineer: Professional or Business Practitioner?
8. Digital Hubbub: An IEEE Special Report
9. New Book Offers Comprehensive Coverage of Superconductivity
10. Proceedings of 2002 Symposium on Electronics & the Environment Released
11. IEEE ComSoc Offers Six Free Issues of IEEE Communications Magazine

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IEEE DELIVERS ? NOW, MORE THAN EVER

Discover the value of IEEE membership

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

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## What's NEW IEEE Power

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WHAT'S NEW @ IEEE IN POWER

VOLUME 3      NUMBER 7      JULY 2002

An html version of this newsletter can be viewed on our online archive at <http://www.ieee.org/products/whats-new/wnpower0702.htm>

### CONTENTS:

1. Test Wafers Aimed at Furthering Low-K Research
2. DOE Study Finds Investment in Power Infrastructure Lagging
3. Conference Can Be Path to Sustaining Reliable Telecommunications
4. New Book Teaches Practical Non-Linear Design Methodologies
5. IEEE Introduces New Careers Website
6. The Sensible Superconductor: An IEEE Spectrum Special Report
7. The Engineer: Professional or Business Practitioner?
8. IAS Rural Electric Conference Summary Covers Host of Vital Topics
9. China Has Plan to Generate Power, Desalinate Water with Spent Nuclear Fuel

## IEEE-USA NEWS

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FROM Washington, DC: \*IEEE-USA TODAY\* July 2002 YOUR Monthly U.S. IEEE MEMBER E-ZINE on "Building Careers & Shaping Public Policy" <http://www.ieeeusa.org>

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### CONTENTS:

+ IEEE-USA PRESIDENT'S COLUMN: SPACE POLICY DOESN'T SUIT WOMEN  
 + RECORD ENGINEERING UNEMPLOYMENT SPURS IEEE-USA CALL FOR CONGRESSIONAL ACTION  
 + ATTENTION CONSULTANTS: TAKE 2002 IEEE-USA CONSULTANTS FEE SURVEY  
 + FROM JULY-AUGUST \*IEEE-USA TODAY'S ENGINEER\*: COPYRIGHT PROTECTION IN DIGITAL AGE  
 + IEEE-USA BROADBAND DEPLOYMENT WORKSHOP DRAWS INTERNATIONAL ATTENTION  
 + IEEE-USA, COALITION FOR NATIONAL SECURITY RESEARCH SEEK INCREASE FOR DEFENSE  
 + IEEE-USA AWARDS, NOMINATIONS SOUGHT BY 1 AUGUST DEADLINE  
 + WHAT'S NEW AT IEEE-USA EYE ON WASHINGTON\* HIGHLIGHTS U.S. GOVERNMENT ACTIONS

#### >IEEE-USA PRESIDENT'S COLUMN: SPACE POLICY DOESN'T SUIT WOMEN

LeEarl Bryant criticizes NASA's decision to suspend development of a small-sized space suit. According to the IEEE-USA president, the new suits would make it easier for some women to perform the complex maneuvers required to work in space and in the space station. <http://www.ieeeusa.org/newspubs/presidentscolumn/bryantjul02.html>

#### >RECORD ENGINEERING UNEMPLOYMENT SPURS IEEE-USA CALL FOR CONGRESSIONAL ACTION

Responding to rising unemployment rates for U.S. engineers and computer scientists, earlier this month IEEE-USA President Bryant sent a letter to all Members of Congress asking them to conduct a field hearing or town hall meeting to gather input from high-tech professionals on employment in their districts this summer. <http://ieeeusa.org/releases/2002/071202pr.html>

#### >ATTENTION CONSULTANTS: TAKE 2002 IEEE-USA CONSULTANTS FEE SURVEY

The Alliance of IEEE Consultants Networks (AICN) is sponsoring an online survey designed to help electrotechnology and information technology consultants set their future consulting fees. U.S. IEEE members who work as consultants are invited to complete the 17-question survey, which should take no longer than five minutes. [http://www.ieeeusa.org/business/consultants/cgi-bin/consultant.cgi?task=display\\_page/page=2002feesurvey.html](http://www.ieeeusa.org/business/consultants/cgi-bin/consultant.cgi?task=display_page/page=2002feesurvey.html)

#### FROM JULY-AUGUST \*IEEE-USA TODAY'S ENGINEER\*: COPYRIGHT PROTECTION IN DIGITAL AGE

With the increased ease of manipulating digital media has come the increased potential for illegal distribution of that media. Is there a solution that will stem piracy while allowing for fair use? <http://www.todaysengineer.org/july02/copyright.htm>

#### >IEEE-USA BROADBAND DEPLOYMENT WORKSHOP DRAWS INTERNATIONAL ATTENTION

A 17-18 June session of the IEEE-USA Committee on Communications and Information Policy at the Cosmos Club in Washington, D.C., explored ways of including Gigabit Ethernet over Fiber (GEF), along with other broadband technologies, in the coming policy debate. <http://ieeeusa.org/releases/2002/062402pr.html>

#### >IEEE-USA, COALITION FOR NATIONAL SECURITY RESEARCH SEEK INCREASE FOR DEFENSE S&T PROGRAM

On 12 June, Dr. Allan C. Schell, a member of IEEE-USA's R&D Policy Committee, provided testimony before the Senate Appropriations Subcommittee on Defense, seeking \$11 billion for the Department of Defense Science and Technology Program for Fiscal Year 2003. <http://ieeeusa.org/releases/2002/061202pr.html>

#### >IEEE-USA AWARDS, NOMINATIONS SOUGHT BY 1 AUGUST DEADLINE

The IEEE-USA Awards and Recognition Committee is seeking nominations for its 2002 awards. These prestigious awards are presented in recognition of professional, technical and literary contributions to public awareness and understanding of the engineering profession in the United States. The nomination deadline is Thursday, 1 August. <http://www.ieeeusa.org/awards/forms.html>

#### >\*WHAT'S NEW AT IEEE-USA EYE ON WASHINGTON\* HIGHLIGHTS U.S. GOVERNMENT LEGISLATIVE, REGULATORY ACTIONS

IEEE-USA's biweekly sister e-zine, EYE ON WASHINGTON, highlights important federal legislative and regulatory developments that affect U.S. engineers and their careers. In addition to the e-zine, subscribers receive legislative bulletins and action alerts on IEEE-USA priority issues, including: retirement security, employment benefits, research & development funding, computers and information policy, immigration reform, intellectual property protection, and privacy of health/medical information. <http://www.ieeeusa.org/forum/EYEONWASHINGTON/Default.htm>

## What's NEW for IEEE Members

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WHAT'S NEW @ IEEE FOR MEMBERS

VOLUME 3      NUMBER 7      JULY 2002

An HTML version of this newsletter can be viewed on our online archive at <<http://www.ieee.org/products/whats-new/wnmem0702.htm>>

CONTENTS:

1. IEEE Standards Association Launches Portal for Asian Community
2. IBM Executive Puts Biology in the Forefront of Next Tech Wave
3. IEEE Introduces New Careers Website
4. 22,000 Users in IEEE Xplore Each Hour
5. Paris to Host Telecommunications Congress
6. IEEE Conferences Priced 25% Below Industry Average
7. New Title in Power Systems Available for Purchase Online
8. Selling Your Ideas to Management
9. 2002 Microelectronics Conference Proceedings Available
10. Human Factors and Ergonomics Society Joins IEEE Effort
11. Engineering Trends: Listen to Your Customer
12. Digital Hubbub: An IEEE Spectrum Special Report

### 1. IEEE STANDARDS ASSOCIATION LAUNCHES PORTAL FOR ASIAN COMMUNITY

The standards community in Asia now has its own Web site. Launched by the IEEE Standards Association (IEEE-SA), StandardsAsia (TM) is the first site in Asia to provide a focal point for the Asian standards community. The site supports those who want to learn about, participate in, and access technical standards, especially in the fields of information technology, telecommunications, and power and energy. It also serves IEEE-SA volunteers, members, customers, and international partners in Asia by integrating information on the associations' offerings with regional and global news tied to standards and links to other standards development organizations. Visit StandardsAsia at: <<http://www.standardsasia.net>>

### 3. IEEE INTRODUCES NEW CAREERS WEBSITE

IEEE has announced the creation of a new careers website for IEEE Members. IEEE Spectrum's team of careers experts will provide the site with original and professional content on a weekly basis, with attributes including a "job of the month" and a featured employer. The site is an enhanced conduit for employers and job seekers to get the information they're looking for and provides links to other valuable IEEE career aids such as the IEEE Salary Calculator. Visit the new website at: <<http://www.spectrum.ieee.org/careers>>

### 8. SELLING YOUR IDEAS TO MANAGEMENT

You've got a great idea that will cut production time in half and save your boss a mint. But if you can't sell it to management, it'll never get past the drawing board. The art of selling is one requisite skill from which engineers are not exempt. Paul Kostek has some advice for engineers who hope to see their own ideas take flight. From IEEE-USA Today's Engineer: <<http://ww.todaysengineer.org/June02/selling.htm>>

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Tony L. King, University of Houston.....	713-743-4423

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.

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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 460014  
Houston, TX 77056-8014

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