



THE POCKET SCOPE



The Institute of Electrical and Electronics Engineers, Inc.

Volume 53, Number 3

November 2002

SCOPE NOTES

September Houston Section News

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

When: Thursday, December 5, 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

The December 5, 2002 Section Meeting will be our last for this year. Our speaker will be Rick Petersen a Senior Business Development Consultant for Intergraph Corporation and he will give a presentation on “*Enter a New Era in Electrical Engineering*”.

The Executive Committee of the Houston Section traveled to Washington D.C. representing our section at the 2002 Section Congress this past October. Every three years the regional activities board (RAB) holds a conference for all sections within the IEEE. Representatives from countries from around the world network and exchange ideals on section best practices. Representatives attend training sessions, tutorials and panel discussions on section activities during the conference. For more information about Section Congress 2002 visit the following website: <http://www.ieee.org/organizations/rab/sc/2002/index.html> The section Excom members had the opportunity to learn from section leadership throughout the world on section best practices. We were also invited to conduct a tutorial in the membership development track on “Senior Member Elevations”. The Houston Section lead Region 5 in 2001 with the largest number on new senior members.

Take a look at our website for information on a the following conference coming to Houston: 10th Annual IEEE IAS Electrical Safety Workshop; Feb 4-7, 2003; Houston, Texas If you have an interest or responsibility in electrical safety, mark you calendars and plan to register early for the 10th Annual IEEE Industry Applications Society Electrical Safety Workshop, February 4-7, 2003 at the Westin Galleria Hotel in Houston Texas. This information and on-line registration is available at www.ieee-pcic.org/Subcommittees/safety/2003wksp.htm

Congratulations are extended to the following Houston Section Members who were elevated to senior members in November. (**Brian Cassidy, Paul J. Donner, Craig Fisher, Karolos Grigoriadis, Russ Gundrum, John M. Hemphill, Periklis Y. Ktonas, Reza Langari, Natarajan K. Seshan, and W. Ransom Siler**) We are looking for members that are interested in becoming a Senior Member in the IEEE. If you 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) or 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.

The Executive Committee and I feel that the programs we have implemented are fostering positive growth in our membership base. If you have feedback and comments contact one of the Excom members. Our goal is to add value to your IEEE membership. Thanks for taking the time to forward your feedback.

IEEE CONTINUING EDUCATION ON DEMAND

2002-2003 REGISTRATION FORM

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

Mail a copy of your completed registration form along with your check payable to **IEEE CED SEMINARS** at the following address:

IEEE CED SEMINARS
SANDY CROCKER
ABB Power T&D Company
P.O. BOX #42802
HOUSTON, TX. 77242

Registration receipts will be distributed **at the seminar**.

For a cancellation refund, telephone by the Friday before the seminar:
Contact Sandy Crocker at (713) 821-4020

IEEE Continuing Education On Demand Completion Certificate with Continuing Education Units (CEUs) is provided after receipt of both nightly questionnaires.

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

[http://\(www.ieee-houston.org\)](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 Sandy Crocker at (713) 821-4020.

The following 2002-2003 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:

ABB Power T&D Company
P.O. BOX #42802
HOUSTON, TX. 77242
Contact Sandy Crocker
(713) 821-4020

Seminar Title	Code	Date	Amount
Residual Bus Auto Transfer System	111	Oct. 1/2	\$
Symmetrical Components	202	Oct. 15/16	\$
Elect. Safety In Ind. Workplace	921	Oct. 29/30	\$
Harmonics Theory And Applications	502	Nov. 12/13	\$
Harmonic Filters	503	Jan. 28/29	\$
CT/PT Application	308	Feb. 11/12	\$
Directional Power Current Relaying	307	Feb. 25/26	\$
Solid-State Starters	504	Mar. 11/12	\$
Relays and Meters Com. Sys. Integration	112	Mar. 25/26	\$
51V Gen Relay, Standby Gen. & UPS	316	Apr. 8/9	\$
Substation Design Appl. And Fund.	312	Apr. 22 /23	\$
Total Paid:			\$

Enter amount for each seminar:

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

Fall of 2002 IEEE Seminar Schedule

Residual Bus Automatic Transfer System (111)

James Bowen / Roy Cossé, Powell Elect. Mfg. Co.

Oct. 1/2, 2002 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]

Symmetrical Components (202)

William Nichols, Siemens Westinghouse Technical Services

Oct. 15/16, 2002 6:00-8:50PM

Reviews basic theory and provides application examples for LL, LG, and LGL faults. Unbalanced voltage concerns are also discussed. [0.5 CEU]

Electrical Safety in Industrial Workplaces (921)

James Bowen, Powell Electrical Mfg. Co.

Oct. 29/30, 2002 6:00-8:50PM

Modern industrial facility safety concerns and NFPA70E are discussed. [0.5 CEU]

Harmonic Theory and Applications (502)

David Rice, GE Engineering Services

Nov. 12/13, 2002 6:00-8:50PM

Introduces basic harmonic concepts and typical industrial applications. [0.5 CEU]

Spring of 2003 IEEE Seminar Schedule

Harmonic Filters (503)

David Rice, GE Engineering Services, and Richard Harlow, Phaseco, Inc.

Jan. 28/29, 2003 6:00-8:50PM

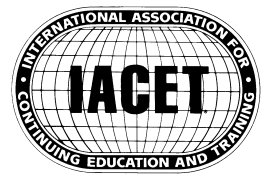
Discusses filter design, implementation, and typical application example concerns. [0.5 CEU]



**IEEE
Houston
Section**

2002-2003

**Continuing
Education
On Demand**



CT / PT Application Seminar (308)

Tony Zhao, Powell Electrical Mfg. Co.

Feb. 11/12, 2003 6:00-8:50PM

Discusses CT and PT ratings, selection criteria, ANSI Std. Ref. and typ. appl. considerations. [0.5 CEU]

Directional Power/Current Relaying & Meters (307)

William Nichols, Siemens Westinghouse Technical Services

Feb. 25/26, 2003 6:00-8:50PM

Reviews typical industrial directional power and directional current relaying applications. Directional metering topics are also included. [0.5 CEU]

Solid-State Starters (504)

Harold Haggarty, Benshaw Inc.

Mar. 11/12, 2003 6:00-8:50PM

Discusses traditional mtr. starting appl. and modern "soft-start" theory, appl. and selection. [0.5 CEU]

Relays and Meters

Communication Systems Integration (112)

Martin Hildreth / Roy Cossé, Powell Elect. Mfg. Co.

Mar. 25/26, 2003 6:00-8:50PM

Reviews modern concepts and reasons for integrating diff. mfg. meters and relays into one communicating system. [0.5 CEU]

Generator 51V Relaying, Standby Generator and UPS Selectivity (316)

Roy Cossé, Powell Electrical Mfg. Co.

Apr. 8/9, 2003 6:00-8:50PM

Reviews MV/LV gen. 51V and stdb. gen. concerns. UPS dist. sys. selectivity is discussed. [0.5 CEU]

Substation Design and Application Fundamentals (312)

Donald Sevcik, Reliant Energy HL&P

April 22/23, 2003 6:00-8:50PM

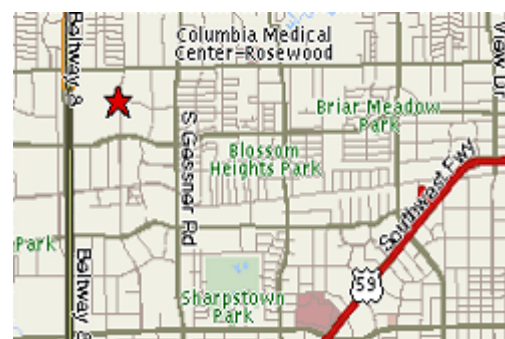
Reviews theory and appl. design basics. [0.5 CEU]

Guidelines for Applying IEC Standards to Electrical Distribution Systems (801)

Terence Hazel, Schneider Electric France

April 30/ May 1, 2002 6:00-8:50PM

[0.5 CEU]



November 14 COMSOC MEETING

The next meeting of the IEEE Communications Society, Houston Chapter will be held Thursday, November 14th, 2002.

Please RSVP via e-mail to [Lee Gaspard](#) by 12:00 Noon Wednesday, November 13th. (Please include your company name.)

Time and date: 11:30 AM to 1:00 PM on Thursday, November 14th, 2002.

Program: "Space Shuttle Cockpit Avionics Upgrade"

Speaker: Todd Smithgall, United Space Alliance

Abstract: The Cockpit Avionics Upgrade (CAU) project addresses these needs with a comprehensive suite of data collection and processing hardware, extensive new access to the vehicle's instrumentation data streams, and new software to recognize, analyze and display vehicle and subsystem performance in such a way as to reduce crew workload during all flight phases and mission scenarios, especially during emergency situations.

Location: Shell Information Center, 1500 Old Spanish Trail Houston, TX

Lunch: Lunch may be purchased at the Shell Information Center cafeteria. We'll plan to eat from 11:30 to 12:00 and enjoy the presentation from 12:00 to 12:45.

PLEASE CHECK THE NEW DRIVING DIRECTIONS!

[\(click here for driving directions\)](#)

Please send e-mail to [Lee Gaspard](#) for more information (including driving and parking directions), or to reserve a seat at the meeting.

December 5 SECTION MEETING

See the Houston Section web site to confirm your reservation.

Title: Enter a New Era in Electrical Engineering

Abstract: Electrical design, construction and maintenance segments of the plant lifecycle are concentrated on the design and engineering of the electrical distribution network. In order to provide safe, robust and reliable electrical power for running current and future equipment processes, the electrical distribution network must be designed to handle all modes of plant operations, from startup and continuous operation to emergency and scheduled shutdowns. Intergraph Process-Power-Offshore invites you to enter a New Era in Electrical Engineering by presenting SmartPlant Electrical. Designed by the process and power industry for the process and power industry, SmartPlant Electrical creates and manages all of the components associated with a plants electrical distribution system using new, powerful and unique tools that enhance your current work processes resulting in increased efficiency and productivity in order to ensure that electrical power is distributed safely and reliably throughout the life of the plant.

Speaker: Rick Petersen

Mr. Petersen has worked in the electrical engineering environment for almost 25 years. With experience ranging from control systems for automated material handling systems to the design of application software for the electrical engineer, Mr. Petersen is now using his talents as a Senior Business Development Consultant for Intergraph Corporation to specify and market engineering software for the process, power and offshore industries.

Where: HESS Building, 5430 Westheimer at Yorktown

Time: 6:00 - 6:30 PM Social - 6:30 - 7:30 PM Dinner - 7:30 - 8:30 PM Presentations

Cost: Dinner Free for members who register 48 hours prior to the event, \$20.00 for members who do not register 48 hours prior to the event and for non-members; \$5.00 for students **(see the website for more information)**

10th Annual Safety Workshop

***10th
Annual
Electrical
Safety
Workshop***
February 4 – 7, 2003
Westin Galleria Hotel
Houston, Texas

**Electrical Safety Works !
Principles and Practices for
Incident-Free Performance**

Workshops, Tutorials, Exhibits & More...

Founded & Organized by
Petroleum and Chemical Industry Committee
Co-organized by
Power Systems Engineering Committee
and
Pulp and Paper Industry Committee

For More Information Visit the following Website:

http://www.ieee-houston.org/Meetings/2003ElectSaftWkshp_r1.pdf

NEW COMSOC OFFICERS

At a Chapter meeting today, 14 November, 2002, new Chapter officers were elected for the 2003 calendar year. They will take office immediately.

Chair:

Thomas P. O'Brien, P.E.

Office: 281-282-5881

Office FAX: 281-282-5811

t.p.obrien@ieee.org

Vice Chair:

Lee Roy F. Gaspard, Jr.

Office: 713-245-1487

Office FAX: 713-245-2324

lee.gaspard@ieee.org

IEEE Houston Section Officer Nominations

“EXECUTIVE OFFICERS NOMINATIONS FOR 2003

The following Houston Section members have been nominated by the Nominations Committee to serve as Executive Officers during the year 2003

Chairman - Dwayne Lowry

Vice-Chairman - Gilroy Dolor

Secretary - Scott Ballew

Treasurer - Charles Benard

Be sure to attend the December 5, 2002, IEEE Houston Section Meeting to participate in the election of the Officers. Nominations for these positions can also be made from the floor that evening.”

The members of the Nominations Committee were: Paul Barrett, Ray Schmidt and Justo Benitez

IEEE USA CAREER ALERT

IEEE CAREER ALERT for 6 November 2002

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

IN THIS ISSUE:

1. Creative Destruction
2. Building Black Boxes for Cars
3. Assessing Personal Progress
4. Job of the Month

1. Creative Destruction

Crashing cars-lots of them-is how Daniel Hedqvist earns his keep. He and other safety engineers at Volvo's state-of-the-art car safety center in Sweden conduct daily crash tests that are vital in improving automotive designs. It's exciting work that makes an impact — literally. Read more at <<http://www.spectrum.ieee.org/careers/careerstemplate.jsp?ArticleId=p110102>>

2. Building Black Boxes for Cars

Data recorders for cars, buses, and trucks can help investigators reconstruct the causes of a crash, much as they do for airplane accidents. IEEE engineers are now helping create standards that would make such vehicle black boxes a reality. And many of those who get involved in standards setting find it helps their careers, too. Read on at <<http://www.spectrum.ieee.org/INST/jun02/fblack.html>>

3. Assessing Personal Progress

As working professionals, we should all take the time to regularly assess our performance. Such an exercise will help you determine what you've accomplished, what works best for you, and to what degree you're reaching your career goals. Here's how to conduct a personal performance assessment: <<http://www.todaysengineer.org/Oct02/assess.htm>>

4. Job of the Month

Dell Computer Corp., one of the fastest growing companies in the world, is looking for a VP of Information Technology who will be responsible for managing all of the company's IT functions on a global basis. The VP is accountable for the implementation of the IT strategy for one of the companies nine strategic business units. The position calls for strong technical, financial, and business acumen, 15+ years experience in a Fortune 500 environment, and stable career progress, including executive leadership experience in applications development and IT operations. For further info, go to <<http://www.spectrum.ieee.org/careers/jobmonth.html>>

And for other openings, visit the IEEE Job site:

<<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>>

If this newsletter was forwarded to you, you can SUBSCRIBE at:

<<http://www.spectrum.ieee.org/careers/signup.html>>

You can UNSUBSCRIBE there, too. If you want to CHANGE the address at which you receive this e-mail alert, first unsubscribe and then re-subscribe with your new e-mail address.

If you have other problems or questions, or comments about this service, please send a message to:

<<mailto:spectrumcareerseditor@ieee.org>>

IEEE USA CAREER ALERT

IEEE CAREER ALERT for 13 November 2002

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

IN THIS ISSUE:

1. New International Network of Women Engineers
2. Women and Technology
3. RISC Maker: Profile of John Hennessy
4. Engineers as Inventors

1. New International Network of Women Engineers and Scientists Women from 41 nations are assembling the first international organization to promote the recruitment, retention, and networking of female engineers and scientists. The International Network of Women Engineers and Scientists (INWES) is set to become operational next year. Read more about it at <<http://www.spectrum.ieee.org/INST/oct02/first.html>>

And for information about how to join, go to <<http://www.inwes.org/>>

2. Women and Technology

Seems amazing, but it's only been two generations since women began entering the engineering profession in large numbers. Even before they had access to higher education, though, women played influential, if less celebrated, roles as operators and users of new and developing technologies. An on-line exhibit prepared by the IEEE Virtual Museum explores this rich history: <<http://www.ieee-virtual-museum.org/exhibit/exhibit.php?id=159251&lid=1>>

3. RISC Maker

"Computer scientists are more than just nerds with pocket packs," avers John Hennessy, pioneer of reduced-instruction-set computing (aka RISC). Two years ago, he became president of Stanford University, becoming the first computer scientist to head such a large and diverse institution, where he's got a long to-do list. Read on at: <<http://www.spectrum.ieee.org/careers/careerstemplate.jsp?ArticleId=p110202>>

4. Engineers as Inventors

What makes a good engineer is the proclivity to invent, without necessarily thinking of the process as invention, muses Donald Christiansen in the latest issue of Today's Engineer. So is inventiveness inborn or can it be taught? Read on at <<http://www.todayseengineer.org/Oct02/backscatter.htm>>

IEEE USA NEWS

IEEE-USA NEWS *For U.S. IEEE Volunteer Leaders*

Contact: Greg Hill, Member & Electronic Communications Coordinator g.hill@ieee.org, 202-785-0017, <http://www.ieeeusa.org> IEEE-USA e-zines <http://www.ieeeusa.org/emailupdates>

U.S. IEEE MEMBERS ELECT PRESIDENT, 2004; MEMBER-AT-LARGE, 2003-2004

The results of the IEEE's 2002 annual election have been tallied, and U.S. IEEE members have elected John W. Steadman to serve as IEEE-USA President in 2004. Steadman, head of Electrical and Computer Engineering at the University of Wyoming, is a Senior Member of the IEEE and currently serves on the IEEE-USA Board of Directors as vice president for Career Activities. Steadman will assume the role of president-elect on 01 January 2003, and will work with 2003 President James V. Leonard and current President LeEarl A. Bryant.

The IEEE's U.S. members also selected former IEEE-USA President Merrill W. Buckley, Jr. to serve as IEEE-USA Member-at-Large, 2003-2004. Buckley, who served as IEEE-USA president in 2000, is an IEEE Fellow with a history of dedicated service and leadership at all levels of the Institute.

Congratulations and good luck to our new officers!

For more information, and complete results of the IEEE annual election, please visit: <http://www.ieee.org/organizations/corporate/candidates.htm>

IEEE MEMBERS NEWS

IEEE MEMBERS SELECT ARTHUR W. WINSTON AS 2003 IEEE PRESIDENT-ELECT

PISCATAWAY, N.J., 8 Nov — Arthur W. Winston, director of the Gordon Institute of Tufts University in Medford, Mass., has been selected 2002 IEEE president-elect. Pending acceptance of the Teller's Committee report by the IEEE Board of Directors, Winston will begin serving as IEEE president on 1 Jan. 2004. He will succeed 2003 IEEE President Michael S. Adler, Vice President of Technology at Mechanical Technology, Inc., Albany, N.Y., and Research Professor at Rensselaer Polytechnic Institute, Troy, N.Y.

Of the 249,352 ballots mailed, 39,059 valid ballots (15.66 percent) were returned. This compares with the 2001 return of 19.80 percent. All results are unofficial until the IEEE Board of Directors accepts the report of the Teller's Committee during the 16-17 November.

The other two candidates for IEEE president-elect were Vijay K. Bhargava, Canada Research Chair in Wireless Communication at the University of Victoria in British Columbia, Canada, and Luis T. Gandia, president of L. Gandia & Associates, Inc., of San Juan, Puerto Rico. Bhargava, Gandia and Winston all were nominated by the Board of Directors. Of the members who voted, 17,949 selected Winston. Bhargava received 11,122 votes and Gandia, 8,884 votes.

Winston, an IEEE Life Fellow, has been an IEEE member since joining in 1955. He served on the IEEE Board of Directors from 1996-1999, holding positions as vice president of Educational Activities and Region 1 director. He has served on numerous committees and taken on many other leadership roles within the organization, including chair of the Foundation Board and the Life Members Committee from 2000-2001. Winston has been very active in the IEEE Boston Section, serving in several capacities, such as chair in 1993 and secretary from 1991-1992. He was awarded an IEEE Third Millennium Medal in 2000.

Winston has worked at Bell Telephone and the National Research Council, both in Canada; The Massachusetts Institute of Technology; National Research Corporation and Allied Research Corporation before joining the faculty at Tufts University. His technical expertise includes the fields of test and measurement among other areas.

Other Officers Named

The following candidates were elected as IEEE division director, 2003-2004: Division II, Philip T. Krein; Division VI, Richard L. Doyle; and Division X, Enrique H. Ruspini. They will assume office on 1 Jan. 2003.

The following candidates were selected as director-elect for 2003: Division III, J. Roberto B. deMarca; Division V, Gene F. Hoffnagle; and Division IX, John A. Reagan. They will take office as director on 1 Jan. 2004. The following candidates were selected as director-elect for 2003-2004: Region 2, Thomas A. Tullia; Region 4, Ronald G. Jensen; Region 6, Robert L. Baldwin; and Region 10, Seiichi Takeuchi. They will take office on 1 Jan. 2005.

James T. Carlo was chosen as president-elect of the IEEE Standards Association. He will take office as IEEE-SA president on 1 Jan. 2004. Elected to serve two-year terms on the Standards Association Board of Governors as members-at-large are Nader Mehravri, Thomas A. Prevost, Dennis Bodson and Harold E. Epstein. They all will take office on 1 Jan. 2003.

IEEE members selected Ralph W. Wyndrum, Jr. to serve as vice president-elect of IEEE Technical Activities. He will succeed 2002 Technical Activities Vice-President Leah H. Jamieson on 1 Jan. 2004.

Elected as IEEE-USA president-elect was John W. Steadman. He will assume the office of IEEE-USA president on 1 Jan. 2004. Taking office as IEEE-USA member-at-large on 1 Jan. 2003, will be Merrill W. Buckley, Jr.

For more information, visit the 2002 IEEE Annual Elections Web page.

The IEEE is the world's largest technical professional society with over 370,000 members in approximately 150 countries. Through its members, the IEEE is a leading authority on areas ranging from aerospace, computers and telecommunications to biomedicine, electric power and consumer electronics.

EXECUTIVE COMMITTEE HOUSTON SECTION IEEE

OFFICERS

Donald G. Dunn, Equistar Chemicals, Chairman.....	281-452-8809
Dwayne Lowry, D.C. Lowry & Associates, Vice-Chair.....	281-565-2316
Gil Dolor, Lyondell Chemicals, Secretary.....	713-309-2023
Scott Ballew, Lyondell Chemicals, Treasurer.....	713-309-7721
Justo Benitez, Foster Wheeler USA, Past Chair.....	713-587-3108
IEEE HOME PAGE.....	http://www.ieee-houston.org

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Ernst Leiss, U of Houston, Computer.....	713-743-3359
Peri Ktonas, U of Houston, Engr-Medicine & Biology.....	713-743-4429
Julia Dang, ABB.....	713-821-5196
Jeffrey Williams, U of Houston, Multi-Group Electronics.....	713-743-4455
John Lucey, Reliant Energy HL&P, Power Engineering.....	713-945-5923
Richard Baraniuk, Rice University, Signal Processing.....	713-285-5132
Dr. Krys 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
Paul Barrett, Fred Oberlander & Associates, Continuing Education.....	713-680-9659
Ray Schmidt, Lynn Elliott, Conferences & PACE.....	281-468-2978
Raymond Joseph, Aarden Control Engr. & Scien, Consultants Network.....	281-343-1607
Linda McOmber-Smith, Reliant Energy, Engr Council of Houston.....	713-207-3521
Jeff Glasgow, Halliburton, Membership.....	713-753-2507
Raul Olivas, Waldemar S. Nelson and Co., Student Activities.....	832-327-2122
John Lucey, Reliant Energy HL&P, Offshore Tech, Conf.....	713-945-5923
Justo Benitez, Foster Wheeler USA, Programs.....	713-587-3108
Jimmy Salinas, SW Bell Telephone, Science Fair Coordinator.....	713-567-8095
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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
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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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.

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