



THE POCKET SCOPE



The Institute of Electrical and Electronics Engineers, Inc.

Volume 56, Number 1

September 2005

SCOPE NOTES

September Houston Section News

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

hen: Thursday, October 27, 2005
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 res-
ervations.

See Page 3
for the Continu-
ing Education
Schedule!

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

IEEE Houston Section
P.O. Box
460443
Houston, Texas
77056-8014



The Chairman's Message

Scott Ballew

The Chairman's Message

Our next Section Meeting will be on September 28, 2005 at 6:00PM at the HESS location. The speaker for the September Section Meeting will be Tony Andrews and he will be presenting on the topic of Power Quality Systems. Mr. Andrews is presently Application Director with S&C Electric Company. Mr Andrews graduated in 1983 from Arizona State University with a BS in Industrial Technology with a minor in Aeronautical Technology. Mr. Andrews spent 5 years in US Navy as a Naval Flight Officer flying missions aboard the Grumman E2-C Hawkeye, a carrier based Airborne Early Warning Platform (AEW) from the USS Coral Sea CV-43. Mr. Andrews most recently spent over 8 years with American Power Conversion holding positions as their Global Director for Telephony OEM sales, National Wireless Solutions Business Development Director and Director Strategic Partners. Mr. Andrews also has worked for Acterna, formerly Telecommunications Techniques Corp (TTC) as a Sales Engineer supporting and selling Test and Measurement equipment into the telecommunications industry.

The Houston Section 2005-2006 CED Seminar Schedule will start up again in October with several courses that cover new and exciting topics. All seminars are held at Summit Electric located at 2929 McKinney Street, Houston, Texas, 77003. For more details, visit the IEEE Houston Section website <http://www.ieee-houston.org/>, click on Meetings and Events link and then click on "Continuing Education on Demand (CED) Seminars" to see the latest brochure listing of upcoming classes for 2005-2006.

And, on behalf of the Executive Committee, I want to extend our congratulations to Carolyn E. Schaff, Kejian Lan, and Erzsébet Merényi, members of the Houston Section who were recently elected to the IEEE Senior Member Grade. Also, congratulations go out to Bjarne Stroustrup (Texas A&M University) for the recent upgrade to IEEE Fellow Member Grade status for contributions to the creation of the C++ programming language and its applications. You too may be eligible for membership upgrade. Please contact one of the EXCOM members for more information in upgrading your membership.

Chair Message-Cont.

Due to Hurricane Rita, our 4th Annual IEEE-Houston Scholarship Golf Tournament has been rescheduled for Thursday, October 27th and will be held at Kingwood Country Club (Lake Course) with a 1:00PM shotgun start. We hope to see you all out there. We need your support! Come join us for a wonderful time. Remember, proceeds from this event will go to providing \$1,000 scholarships to Section member.

Speaking of scholarships, the scholarship committee met earlier this month to review the large number of scholarship applications. Following the review and ranking process, three (3) extremely deserving individuals were chosen to be the Houston Section's 2005 Scholarship recipients receiving \$1,000 scholarships each, and they are as follows:

- Daniel Wu (Rice University)
- Daniel Johnson (University of Texas)
- Ernst Andreas Leiss (University of Texas)

Congratulations to all of our scholarship winners for 2005! Your applications were very impressive and we wish you continued success in your future endeavors. As mentioned, we received many scholarship applications this year. Thank you all for applying! With the continued success of the Scholarship Golf Tournament, we look forward to awarding more scholarships in 2006.

Remember the Executive Committee and I look forward to your feedback comments. If you are interested in getting involved in the local IEEE section, please let us know, as volunteer members are always needed. We have plenty of opportunities. 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.

Scott Ballew

Houston Section Chair

IEEE CONTINUING EDUCATION ON DEMAND

2005-2006 REGISTRATION FORM

Name: _____
 Company: _____
 Mailing Address: _____
 _____ City/State:
 Zip: _____
 Email: _____
 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
 PAT ROGERS
 SOUTHWEST POWER / HUGHES SUPPLY CO.
 425 BLUEBERRY STREET
 HOUSTON, TX 77018
patricia.rogers@hughessupply.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: patricia.rogers@hughessupply.com

IEEE Continuing Education on Demand Completion Certificate with Continuing
 Education Units (CEUs) is provided after receipt of both nightly questionnaires
 and seminar evaluation sheets.

Please direct seminar questions to Paul Barrett at 713.598.0790
 Please check the IEEE Houston Section website for the latest schedule and
 course information.
<http://www.ieee-houston.org>

IEEE CONTINUING EDUCATION ON DEMAND

The purpose of IEEE Houston Section Continuing Education on Demand is to
 provide modern 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
 continuation throughout the working career. Topics apply to heavy industries: oil
 and gas, petro-chem, cogen, pulp and paper, etc.

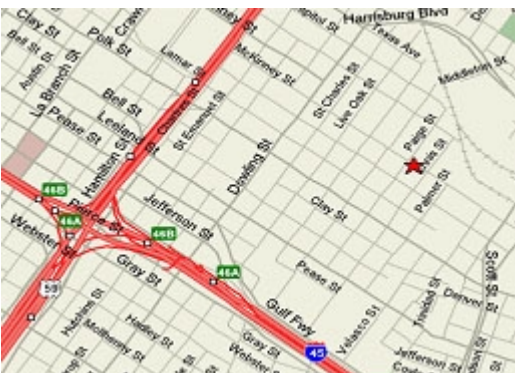
Instructors are application engineers, manufacturing specialists and expert
 consultants who provide a blend of diverse engineering perspectives.

The cost of each seminar is \$70.00 for IEEE members. Non-members \$140.00.
 The **check must be received the Friday before** the seminar start date. "Pay
 at the door" is discouraged due to many "no-shows". If you have a special situation
 contact Paul Barrett (713) 598-0790. Signing up the week of the seminar does not
 guarantee seminar presentation documents or meals.

The following 2005-2006 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 2005 - 2006

Summit Electric
2929 McKinney
Houston, TX. 77003



Seminar Title	Code	Date	Amount
Grounding Techniques, Industrial Power Sys	402	Oct. 4 / 5	\$
Electrical Safety in the Workplace	921	Oct. 18/19	\$
API Motor Standards Update	620	Nov. 1/ 2	\$
Protective Relay 5 ABB Relays	315	Nov 15/16	\$
HV Substations For Industrial Applications	125	Feb. 7/ 8	\$
MV Cable Considerations Thru 69kV	130	Feb. 21/22	\$
Protective Relaying for Large Generators	306	Mar. 7/ 8	\$
IEC Standards for Large Power Transformers	950	Mar. 21/22	\$
IEEE 1584 Arc Flash Calculations	340	Apr. 4 / 5	\$
Residual Bus Auto Transfer Schemes	140	Apr. 18/19	\$
Total Paid:			\$

Enter amount for each seminar:

IEEE member early signup: \$ 70.00
 Non-member registration: \$140.00

Fall of 2005 IEEE Seminar Schedule
Grounding Techniques—Industrial Power Sys (402)

Jack Woodham, Jedson Engineering
Tony Locker, Post Glover Resistors
 Oct. 4/5, 2005 6:00-8:50PM
 Reviews and explores the four types of grounding for industrial power systems 480 – 4160 V. **[0.5 CEU]**

Electrical Safety in the Workplace (921)
Danny Ligget, E.I. DuPont Co.
 Oct. 18/19, 2005 6:00-8:50PM
 A detailed focus is on electrical workplace safety coupled with comprehensive safety training. **[0.5 CEU]**

API Motor Standards Update (620)
David Rains, WEG & Doug Gehring, Siemens
 Nov. 1/2, 2005 6:00-8:50PM
 An overview of large motor design considerations for compliance with latest API 541 and API 546. Review and comparison of IEEE 841 and API 541. **[0.5 CEU]**

Protective Relay 5 – ABB Relays (315)
Robert Wilson, ABB
 Nov. 15/16, 2005 6:00-8:50PM
 Review of ABB protective relay design fundamentals and special application considerations. **[0.5 CEU]**

Spring of 2006 IEEE Seminar Schedule
HV Substations for Industrial Applications (125)
Allen Xi & Charles Pulay, Burns & McDonnell Engrs
 Feb. 7/8, 2006 6:00-8:50PM
 An overview of industrial substation design considerations, layout, protection, grounding and controls. Testing and commissioning considerations. **[0.5 CEU]**



IEEE
Houston
Section

2005-2006

Continuing
Education
On Demand



MV Cable Considerations thru 69 KV (130)
H.R. Stewart HRS Consulting
 Feb. 21/22, 2006 6:00-8:50PM
 Review of design application considerations related to MV power cable projects. **[0.5 CEU]**

Protective Relaying for Large Generators (306)
Wayne Hartman, GE Multilin
 March 7/8, 2006 6:00-8:50PM
 Reviews large generator design characteristics, application problems and reliable protective schemes. **[0.5 CEU]**

IEC Standards for Large Power Transformers (950)
Tom Malone & Martyn Hildreth. Areva T&D
 March 21/22, 2006 6:00-8:50PM
 Detailed review of current IEC standards related to large power transformers. **[0.5 CEU]**

IEEE 1584 Arc Flash Calculations (340)
Jim Bowen, Powell Electrical Manufacturing Co. & Daleep Mohla, DCM Consulting
 April. 4/5, 2005 6:00-8:50PM
 A two part study focuses on NFPA 70E flash hazard analysis requirements and IEEE 1584 formulas to satisfy 70E requirements. **[0.5 CEU]**

Residual Bus Auto Transfer Schemes (140)
Roy Cosse, Powell Electrical Systems Inc. & Robert Spiewak, PolAmex Engineering
 April 18/19, 2005 6:00-8:50PM
A focused review of the residual bus auto transfer schemes, examples, why they work and do not work. Traditional and modern applications. **[0.5 CEU]**

New Senior Members

Congratulations to the recently elected Senior Members from the Houston Section (August). For a complete list of the new Senior Members see the attached link.

www.ieee.org/organizations/rab/md/smupdates.html

Carolyn E. Schaff

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.

IEEE USA Eye On Waashington

The latest issue of EOW is now available. Congress has returned a few days ahead of schedule to address disaster relief in the wake of Hurricane Katrina. Beginning next week, expect them to continue with the budget process, and to filibuster judicial nominations.

For complete text and links of EOW, please visit:

<http://ieeusa.com/policy/eyeonwashington/2005/05eow17.asp>.

In Summary:

REAUTHORIZATION OF HIGHER ED ACT WOULD PROMOTE STEM CAREERS

In April, we told you about a bill (STEP UP TO THE PLATE:" LEGISLATORS CALL FOR ACTION TO REVERSE THE SHORTAGE OF SCIENTISTS & ENGINEERS, Vol. 2005, No. 8) by House Science, State, Justice and Commerce Appropriations Subcommittee Chairman Frank Wolf (R-VA) to offer loan interest forgiveness to students who teach or work in STEM fields after college, as well as provisions to encourage scholarships for STEM students and to help states improve science and math education. Now, a reauthorization of the Higher Education Act incorporates ideas from that earlier bill, and adds new provisions to encourage students to pursue careers in science, technology, engineering and math (STEM). The bill, the College Access and Opportunity Act (H.R. 609) is expected to go before the full House this fall, and authorizes a \$41 million in FY 2006 and "such sums as may be necessary" over the subsequent 5 years.

NIST NAMES NEW DIRECTOR

The Senate confirmed William Alan Jeffrey as the new director of the National Institute of Standards and Technology (NIST). Commerce Secretary Carlos Gutierrez declared that Jeffrey "brings a strong background in science and technology policy and the practicalities of research management to one of our nation's finest research laboratories and an institution whose work affects almost every aspect of our daily lives."

RESEARCHERS CARVE WITH ELECTRICITY AT THE NANOMETER SCALE

By applying electric current through a thin film of oil molecules, engineers, with the support of a National Science Foundation grant, have developed a new method to precisely carve arrays of tiny holes only 10 nanometers wide into sheets of gold. The new system, called Electric Pen

Lithography (EPL), uses a scanning-tunneling microscope, fitted with a tip sharpened to the size of a single atom, to deliver the charge through the dielectric oil to the target surface. For additional information, see the University of Arkansas release at:

<http://dailyheadlines.uark.edu/4822.htm>

DEPARTMENT OF ENERGY TASK FORCE OUTLINES STEPS TO CONSOLIDATE NUCLEAR WEAPONS COMPLEX

In response to a March 2004 request of the House Appropriations Subcommittee on Energy and Water, the 6-member Nuclear Weapons Complex Infrastructure Task Force

IEEE USA - Cont

has released a draft final report on, "Recommendations for the Nuclear Weapons Complex of the Future." Later this year, the Secretary of Energy Advisory Board will consider the recommendations. Comments will be solicited before they meet. The report can be read at

<http://www.seab.energy.gov/publications/NWCITFREpt-7-11-05.pdf>

AWARDS & GRANTS

EVALUATION PANELISTS NEEDED FOR NSF's 2006 GRADUATE RESEARCH FELLOWSHIP PROGRAM

BASE CLOSINGS COULD BOLSTER MD TECHNOLOGY COMMUNITY

The Washington Post recently reported that the decision to relocate thousands of military jobs from NJ to MD could be a boon to the high-tech sector in the area. The beneficiaries are the Aberdeen Proving Ground and Fort Meade. Aberdeen Proving Ground would gain 4,000 employees, and Fort Meade, which is already home to the National Security Agency, would get another 5,000. Assuming the Army's base-reorganization initiative goes as planned, the migration of tech workers to MD could follow quickly. Northrop Grumman already said it would relocate nearly 200 technology jobs to Aberdeen for work on contracts currently based at Fort Monmouth. The transition could also trigger job shifts by other major information technology companies like CACI International, Lockheed Martin and Mitre.

What's New @ IEEE-USA's Eye on Washington highlights important federal legislative and regulatory developments that affect U.S. engineers and their careers. In addition to this biweekly newsletter, 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.

EDITOR: Erica Wissolik, IEEE-USA, 1828 L Street, N.W., Suite 1202, Washington, DC 20036-5104

You can change your IEEE-USA Eye on Washington subscription status by using the forms at <http://whatsnew.ieee.org/> or at <http://www.ieeeusa.org/emailupdates/>.

Copyright © 2005, The Institute of Electrical and Electronics Engineers, Inc. Permission granted to copy for personal use or for non-commercial republication with appropriate attribution.

IEEE Elections 2005

Ballots for the 2005 IEEE Annual Election will be mailed to you shortly. As a subscriber to the list to receive information on candidates running for elective office this year, you are being sent this e-mail. I hope you will take a few minutes to read through it.

In addition to including a link to a personal Web site, many candidates have provided a short “by-line” further promoting their candidacy. If no URL is provided below, then a personal site is not available. Candidates are listed alphabetically by election category; the sequence does not indicate any preference.

For access to additional candidate information, please visit the IEEE election Web site at: <http://www.ieee.org/elections>.

Your vote is important to the IEEE. I encourage you to learn as much as you can about the candidates and participate in the annual election when you receive your ballot.

Sincerely,

W. Cleon Anderson

President and CEO, IEEE

IEEE President-Elect, 2006

Leah H. Jamieson (Nominated by IEEE Board of Directors)

<http://www.ece.purdue.edu/~lhj/IEEE>

Build IEEE through strategic focus on members? careers, innovative information delivery tools, an agile approach to emerging technologies, a global focus, and appreciation of volunteers.

Gerald H. Peterson (Nominated by IEEE Board of Directors)

<http://ghpeterson.home.att.net>

The past is our pride, the present is our challenge, the future is ours to build. Global leadership for society, members, industry and academia.

James M. Tien (Nominated by Petition)

<http://www.jimtien.com>

As A Candidate For President-Elect, I Humbly Ask Not Only For Your Vote, But Also For Your Involvement: Together, We Can Advance IEEE's Global Value.

Division II Delegate-Elect/Director-Elect, 2006

Thomas G. Habetler (Nominated by Division II)

<http://users.ece.gatech.edu/~habetler/divII.htm>

I intend to be a strong voice representing Division II societies which are key to the infrastructure that is the critical path to electrotechnological advancements.

Robert E. Hebner, Jr. (Nominated by Division II)

<http://rhebner.com/>

Empowered volunteers working together to develop and share knowledge of electrotechnology make the IEEE a strong and effective multinational organization.

Division IV Delegate-Elect/Director-Elect, 2006

Edward Della Torre (Nominated by Division IV)

No URL provided

As past President of the Magnetics Society and member of TAB, I have the necessary experience

IEEE Elections 2005-Cont.

to help maintain a financially sound and vibrant Institute.

Ralph H. Justus (Nominated by Division IV)

No URL provided

Serving the Societies that make up IEEE is first and foremost. Our Societies tactical needs must be met and then complemented with broader strategic initiatives.

Division VI Delegate-Elect/Director-Elect, 2006

Irving Engelson (Nominated by Division VI)

No URL provided

As a Life Fellow of our Division's long-standing societies, with experience in their governance, I will bring a unifying leadership approach to member services.

Jeffrey M. Voas (Nominated by Division VI)

<http://www.jeffreyvoas.com>

Foster better collaboration between the Societies in Division VI and TAB; advocate additional benefits for member dues; work to sustain the Institute's scientific preeminence.

Division VII Delegate/Director, 2006-2007

W.O. (Bill) Kennedy (Nominated by Petition)

<http://sas.ieee.ca>

W.O. (Bill) Kennedy (M'70, SM'81) is the Region 7 Director. He has executive experience with community, sport and technical organizations.

H. Peter Lips (Nominated by Division VII)

No URL provided

My goals are increased employer support for PES activities, improving the image of the power engineer, and enhancing PES as a knowledge base for members.

Hans B. (Teddy) P?ttgen (Nominated by Division VII)

No URL provided

I look forward to leading many successful activities as I have in the Power Engineering Society.

Division VIII Delegate-Elect/Director-Elect, 2006

Gerald L. Engel (Nominated by Division VIII)

No URL provided

I will implement a strategy insuring the future of the Computer Society and IEEE. I appreciate your support, and encourage your participation in the effort.

Gene F. Hoffnagle (Nominated by Division VIII)

No URL provided

The focus of IEEE should always be its members, their ideas for improving IEEE, the programs and services they want, and the value they receive.

Thomas W. Williams (Nominated by Division VIII)

No URL provided

I will call on my extensive industry and volunteer experience to continue the effort begun in 2000-2002 to make the IEEE central organization fiscally responsible.

Division X Delegate-Elect/Director-Elect, 2006

John D. (Douglas) Birdwell (Nominated by Division X)

IEEE Elections 2005-Cont.

<http://www.lit.net>

Doug Birdwell is a Professor of ECE at UT in Knoxville, TN (USA) and has volunteered in the IEEE Control Systems Society for 20 years.

William A. Gruver (Nominated by Division X)

<http://www.ensc.sfu.ca/idea/>

As Division X Director, I will help our societies and council to increase collaboration and bring more value to members.

Region 1 Delegate-Elect/Director-Elect, 2006-2007

Howard E. Michel (Nominated by Region 1)

<http://www.ece.umassd.edu/Faculty/hmichel/region1Michel.htm>

An engineer and academic, a proven leader. Facilitate sections developing programs; maximize membership advantage for members and employers; convince employers to support IEEE membership.

Charles P. Rubenstein (Nominated by Region 1)

<http://www.SolutionsMall.com/info>

As Region 1 Director I will grow member programs, benefits, and professional activities that will keep IEEE the most powerful professional organization in the world.

Region 3 Delegate-Elect/Director-Elect, 2006-2007

Eric S. Ackerman (Nominated by Region 3)

<http://www.nova.edu/~esa/ieee.html>

I am fully capable of doing all that it takes to represent you within the region and beyond.

William B. Ratcliff (Nominated by Region 3)

<http://home.comcast.net/~wratcliff2/>

Vote for engineered change — improve IEEE and its value to members — vote for Ratcliff—

Together we can make a difference.

Clarence L. (Lee) Stogner (Nominated by Region 3)

<http://home.mindspring.com/~lee.stogner/>

With your support, we can continue to build the IEEE Network in Region 3 and make a difference in the lives of our fellow Members.

Region 5 Delegate-Elect/Director-Elect, 2006-2007

Francis B. Grosz, Jr. (Nominated by Region 5)

<http://www.redcodehosting.com/fgrosz>

Continue and increase Section support; leverage conferences to benefit Sections; increase member volunteer opportunities and career support; help guide IEEE in a rapidly changing world.

David J. Pierce (Nominated by Region 5)

<http://home.earthlink.net/~davidjpierce/>

”A grass roots candidate.”

Region 7 Delegate-Elect/Director-Elect, 2006-2007

Gerard M. Dunphy (Nominated by Region 7)

<http://ca.geocities.com/g.dunphy@nl.rogers.com/>

Proven leadership. Results oriented. Committed. Member focused. Key attributes required of your

IEEE Elections 2005-Cont.

Director; attributes I will bring to the position. Making IEEE work for you.

Ferial El-Hawary (Nominated by Petition)

<http://www.ferial.ca>

Together, we will attract and retain members and volunteers, while making volunteerism joyful to move IEEE forward to improve value to members.

Eric Holdrinet (Nominated by Region 7)

<http://pages.infinit.net/eholdrin/>

Coast to coast IEEE technology and knowledge: for the Member, Community and Society.

Maïke Luiken Miller (Nominated by Region 7)

<http://www.ncct.uottawa.ca/people.php?page=maikeluiken>

I will strengthen partnerships with industry, academia and organizations; promote career-enhancing events bringing together all members; and relentlessly advocate interests of engineers in transition.

Vijay K. Sood (Nominated by Petition)

<http://ieee.ca/candidates/sood/>

After ten successful years as Editor of the "IEEE Canadian Review," I re-focus my energies to serve Region 7 members in other areas.

Region 8 Delegate-Elect/Director-Elect, 2006

Gerhard P. Hancke (Nominated by Region 8)

<http://www.ee.up.ac.za/~ieee/GPHancke.htm>

Dear Member,

You are the IEEE ? please exercise your vote and have a say in determining the value of your membership.

Jean G. (Jean-Gabriel) Remy (Nominated by Region 8)

<http://www.ieee-france.org/elect>

Make IEEE R8 the champion for Industry Relations; recognize R8's diverse local situations; have joint actions with National Societies; develop volunteers actions; continue to increase membership.

Region 9 Delegate-Elect/Director-Elect, 2006-2007

Enrique A. Alvarez (Nominated by Region 9)

http://www.serlipso.com.pe/documento/E_alvarez.htm

I invite you to vote for me; with your vote and your support I am sure we will make grow our Region 9.

Juan R. (Ramon) Falcon (Nominated by Region 9)

<http://www.juanramonfalcon.com>

Making sure that all members in our region obtain the specific services to enhance their careers/life will be my main goal if elected.

Enrique A. Tejera M. (Nominated by Region 9)

No URL provided

If elected as Regional Director, I am willing to accept the compromise to maintain the adequate activities in our Region, complying with the IEEE Mission.

Standards Association President-Elect, 2006

George W. Arnold (Nominated by Standards Association)

<http://gwa10.home.comcast.net/>

IEEE Elections 2005-Cont.

Please take a moment to visit my site and learn about my vision for leadership of the IEEE-SA. I ask for your vote as President-Elect.

Raymond Hapeman (Nominated by Standards Association)

No URL provided

We are the stewards of the resources that our members and their employers devote to IEEE standards development.

Forrest D. (Don) Wright (Nominated by Standards Association)

<http://www.wrightsrealm.com/don>

Don Wright — fully experienced leader in individual and corporate standards development — proven leadership yesterday, demonstrating leadership today, prepared for leadership tomorrow.

Standards Association Board of Governors

Member-at-Large, 2006-2007

Paul Nikolich (Nominated by Standards Association)

No URL provided

Nikolich is committed to making improvements in the SA from his perspective as Chairman of IEEE 802 LAN/MAN Standards Committee and a successful entrepreneur.

Carl R. Stevenson (Nominated by Standards Association)

<http://www.wk3c.com>

Promote IEEE Standards as global standards; work with sponsor groups to improve the standards development process; maintain emphasis on volunteers and the open, consensus process.

Standards Association Board of Governors

Member-at-Large, 2006-2007

L.B. (Bruce) McClung (Nominated by Standards Association)

No URL provided

My main goal will be to encourage Standards Association staff to provide dedicated support for each volunteer group involved in standards development.

T.W. Olsen (Nominated by Standards Association)

No URL provided

Striving to make IEEE-SA Standards processes easier to understand and use.

Technical Activities Vice President-Elect, 2006

Jose R. (Roberto) Boisson de Marca (Nominated by Technical Activities)

<http://iris.nyit.edu/~agelman/demarca/demarca.html>

Promoting and empowering volunteerism, high value worldwide services (conferences, publications, standards, technical communities) and fiscal responsibility are the essential pillars for a successful IEEE future.

Peter W. Staecker (Nominated by Technical Activities)

<http://mysite.verizon.net/vze38mmc/index.htm>

Build membership by creating value; add and retain customers with innovative intellectual property access and tools; and recognize volunteers as key elements to success.

IEEE-USA President-Elect, 2006

Russell J. Lefevre (Nominated by IEEE-USA)

IEEE Elections 2005-Cont.

<http://www.russelllefevre.com>

My election to President-Elect will enable me to address globalization issues by working with national organizations promoting legislation that will improve the lives of members.

John W. Meredith (Nominated by IEEE-USA)

<http://www.johnmeredith.us/>

An action-oriented IEEE-USA President who will seek new ideas and lead the charge in supporting your career, enhancing our profession, and shaping technology.

IEEE-USA Member-at-Large, 2006-2007

Burton J. Loupee (Nominated by IEEE-USA)

No URL provided

It has been my privilege to serve IEEE-USA as a Regional Director. I would be pleased to serve again, this time as Director-at-Large.

Gregg L. Vaughn (Nominated by IEEE-USA)

<http://www-ece.eng.uab.edu/GVaughn/IEEE/index.html>

I have enjoyed the benefits of membership in IEEE since 1968. Now it is time for me to serve my profession.

=====

If you have any questions about the 2005 IEEE Annual Election, please contact corp-election@ieee.org. (Please do NOT reply to the address at the top of this message.)

IEEE CAREER ALERT

IEEE CAREER ALERT for 1 Sep 2005

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

IN THIS ISSUE:

1. Getting Kids Interested in Engineering
2. Can You Count on a Counteroffer?
3. Worrying About the Past
4. In The Netherlands, What You Want to Do Is As Important As What You've Done

On 20 September 2005, IEEE Spectrum will host an online Career Accelerator Forum. Get insight and advice on getting an advanced degree, staying ahead in your field, landing your dream job and even changing your career. Plus, this interactive event makes it possible for you to question our expert panel — all from the convenience of your desktop! For more information and a list of panelists, visit:

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

To sign up, go to: <<http://www.spectrum.ieee.org/cef>>

1. Getting Kids Interested in Engineering

Do you know a kid who might make an excellent engineer but has not considered it as a potential career? GetTech.com has resources that help students, teachers and parents plan for careers in technology, engineering, and science. Science and math games help students improve their science and math skills, while day-in-the-life essays from working engineers give them a sense of the myriad possibilities technical careers provide.

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

2. Can You Count on a Counteroffer?

You've found a new job and have just handed in your two-week notice. If your current employer makes a counteroffer, what should you do? In a JobSearchTech article, career advisors explain why it's usually a good idea to decline the counteroffer, however tempting it might be. <<http://jobsearchtech.about.com/cs/resignationletter/a/counteroffer.htm>>

3. Worrying About the Past

Your company has just announced that it is conducting background checks. Should you be upfront about a minor criminal offense that occurred a long time ago? Wall Street Journal career columnist Perri Capell discusses the pros and cons of full disclosure.

<http://www.careerjournaleurope.com/columnists/qanda/interviewing/20050823-qandainterviewing.html?cjepos=home_whatsnew_major>

IEEE CAREER ALERT

4. In The Netherlands, What You Want to Do Is As Important As What You've Done
Though there are a few general common sense rules for job applicants across the globe, cultural differences can still make a big difference. In the Netherlands, for instance, applicants are expected to present their skills and experience with a touch of modesty and specifically describe their research or career ambitions—often in a motivation letter presented along with the CV. More differences are teased out in a panel discussion you can read at:

<<http://nextwave.sciencemag.org/cgi/content/full/2005/02/24/6>>

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 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>>

EXECUTIVE COMMITTEE HOUSTON SECTION IEEE

OFFICERS

Gil Dolor, Lyondell Chemicals, Past-Chairman.....	281-862-5906
Scott Ballew, Lyondell Chemicals, Chairman.....	713-309-7721
Charles Benard, Dow Chemicals, Vice-Chairman.....	713-978-3790
Polo Gutierrez, Tesco Corporation, Secretary.....	281-721-3911
Shannon Quadros, Choice Condominiums, LLC., Director.....	281-790-7907
Donald G. Dunn, Equistar Chemicals, Treasurer.....	281-862-5533
IEEE HOME PAGE.....	http://www.ieee-houston.org

SOCIETY CHAIRS

Lee Gaspard, Shell, Communications.....	713-245-1487
Ernst Leiss, U of Houston, Computer.....	713-743-3359
George Zouridakis, U of Houston, Engr-Medicine & Biology.....	713-743-8656
XXXX,XXXX , Industry Applications	
Jeffrey Williams, U of Houston, Multi-Group Electronics.....	713-743-4455
H. Allen Xi, Burns & McDonnell Engrs, Power.....	713-945-5923
Richard Baraniuk, Rice University, Signal Processing.....	713-285-5132
Dr. Christi K. Madsen, Texas A&M University, A.M.L.G. A&M.....	979-845-9686
Joseph Cavallaro, Rice University, Circuits and Systems.....	713-527-4719
Daniel Mittleman, Rice University, LEOS.....	713-348-5452

COMMITTEE HEADS

P.J. Donner, Reliant Energy, Arrangements & Awards.....	713-945-7771
OPEN, Conferences.....	
Ransom Siler, Private Consultant, Consultants Network.....	
Paul Barrett, Double E Engineering, Continuing Education-Main Committee.....	713-290-1167
Roy Cosse, Powell Electric, Continuing Education-Consultant.....	713-948-4019
Justin McCaskill, WH Linder, Continuing Education-Administration Co-Chair.....	832-274-5116
Roy Cosse, Powell Electric, Continuing Education-Consultant.....	713-948-4019
Shannon Quadros, Choice Condominiums, LLC, Engr Council of Houston.....	713-790-7907
Kristin Morrow, Lyondell Chemicals, GOLD.....	281-862-5138
Open, Membership.....	
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
Dwayne C. Lowry, D.C. Lowry & Associates, Past-Chairman, Webmaster.....	281-565-2316

Donald G. Dunn, Publications and Advertising.....	281-862-5533
Open, Student Activities.....	
Jimmy Salinas, SW Bell Telephone, Science Fair Coordinator.....	713-567-8095
Gilroy Dolor, Lyondell Chemicals, Scholarship.....	281-862-5906

FREPOT SUBSECTION OFFICERS

Partha Ray, Dow Chemicals, Chairman.....	
Jose Aquas, Dow Chemical, Vice Chair.....	
Open, Secretary/Treasurer.....	

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