



THE POCKET SCOPE



The Institute of Electrical and Electronics Engineers, Inc.

Volume 54, Number 2

October 2003

SCOPE NOTES

October Houston Section News

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

When: Tuesday, December 2, 2003
6:00 - 6:30 p.m. Social
6:30 - 7:30 p.m. Dinner
7:30 - 8:30 p.m. Speaker

Cost:
\$10.00 - IEEE Members with 48-hour advance reservations.
\$20.00 - non-members
\$5.00 - students
Call (713) 207-IEEE to make your reservations.

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
770668014

The Chairman's Message

Dwayne Lowry



October 17, Newport Golf Club in Crosby Texas, ([Click Here for Map](#)) is the location of the IEEE Houston 2nd annual golf tournament. Proceeds go to the Scholarship Fund. Last year's event raised enough to award three scholarships to extremely qualified engineering students. We hope to do even better this year.

The tournament is a four-man best ball, shotgun start at 8:00 AM. Registration fees are \$110 each or \$400 per team when registered together. Registration includes 18 holes of golf with cart, range balls, refreshments, awards luncheon, numerous "prowess" prizes plus a host of door prizes. For full details and registration information [CLICK HERE](#). Come join the fun while supporting a good cause.

Our next Section Meeting is December 2 so mark your calendar. We are finalizing the program for this event and will announce it shortly. You can get a copy of the September presentation on "Use of Simulation to Mitigate Risk on Oil Platform Software and Network Subsystems" by [CLICKING HERE](#). This was an outstanding presentation which over 30 members attended September 18. Check the [meetings Index](#) on the website for a list of upcoming meetings of interest. Specifically the [Gold Affinity Group](#) is holding their next meeting on October 28, [IAS Section Meeting](#) on October 29, and the [CED Program](#) begins their year with October 7/8 and 21/22.

Other Items of Interest:

Society No. 38: Product Safety Engineering

Fifteen years in the organizing, the Product Safety Engineering Society is the IEEE's 38th and newest society. [Learn more...](#)

Blackout of 2003 Was Widely Anticipated

IEEE Spectrum magazine has prepared a special report on the blackout that plagued the United States and Canada last month, and assembled background material that sheds light on it and points the way to solutions. Politicians and reporters on both sides of the border were pointing fingers even before power had been restored. However, three U.S. Department of Energy studies going back to 1998 forecasted major difficulties in the electric power system, making a massive U.S. power failure almost inevitable. [Read article...](#)

New Journals Due Next Year Four new publications will roll off the presses in 2004, including a journal on geoscience, published quarterly, and another on automation sciences, coming out twice a year. [Learn about these](#) and the other new publications...

Online Courses Coming to IEEE Xplore

CONTINUED ON PAGE 2

Chair Message-CONT

Plans are under way for members and others with a technical bent to take short courses over the Internet through IEEE Xplore, the IEEE's repository of published information from its journals, transactions, and proceedings. [Read more...](#)

Financial Program Doubles Services in Decade

This year marks the 10th anniversary of the IEEE's Financial Advantage Program, which provides members with non-technical benefits. Over the years, FAP has rolled out life insurance, financial services, and business services. [Read more](#) about the programs...

IEEE ELECTION

By 1 September, election ballots will have been mailed to all IEEE voting members in Regions 1-10, who are of Member grade and higher. Prior to receiving your ballot packages, we encourage you to visit the Candidates' website to familiarize yourself with the Candidates' Statements of Candidacy and their biographical information. You can also visit their personal websites from this page, by following the instructions on the chart. [Visit the website](#) for this information

When you return your ballot, assure that your annual election ballot is counted by using the postage-paid envelope provided in your ballot package and return the SIGNED ballot in time to be received before noon on 3 November 2003. Use sufficient postage for delivery to the United States. Please do not mail your ballot to the Operations Center with other correspondence.

What's Next for IEEE 802?

Several additions to the popular suite of IEEE 802 wireless standards are now in the works. [Read what's on the horizon...](#)

Answers to FAQs about Services for Members and Customers

What's an IEEE Web account? How do I join a Society? [Here's answers](#) to these and more questions...

Globalization and Technology

How do technology advances impact the world's economies and cultures? What policies should the U.S. adopt with regards to the globalization of technology? How do these shifts in policy shape the technology sectors in Texas?

This one-day forum is designed to foster open discussion on the effect of globalization on public policy and technology among government, academic and corporate leaders.

IEEE-USA and IEEE-Central Texas Section invite you to attend this forum, 7:30 am to 4:30 pm at the Austin Marriott at the Capitol, 701 East 11 Street, in Austin, Texas...

Dwayne Lowry
Houston IEEE Section Chair

International Symposium on Intelligent Control

IEEE 2003 International Symposium on Intelligent Control (ISIC'03) will be held in Houston October 5-8 at the Westin Galleria.

On behalf of the ISIC'03 General Chair, Gary Yen, I would like to invite IEEE members in Houston to our meeting and its associated tutorial sessions. We have made a deliberate effort to make the tutorial sessions attractive to working engineers and want to get the word out to as many people as possible.

For further information, our conference web site is at <http://vlab.ee.nus.edu.sg/~isic2003/>

Kevin L. Moore, Ph.D., P.E.
Professor, Dept. of Electrical and Computer Eng.
Utah State University
Logan, UT 84322-4120
Phone: (435)797-2924
Fax: (435)797-2003
email: moorek@ece.usu.edu

The 23rd IEEE International Real-Time Systems Symposium

RTSS-2002

The 23rd IEEE International Real-Time Systems Symposium

December 3-5

Austin, TX. (USA)

Sponsored by the IEEE-TC on Real-Time Systems

<http://www.cs.unc.edu/~baruah/Meetings/2002-RTSS/>

IEEE CONTINUING EDUCATION ON DEMAND

2003-2004 REGISTRATION FORM

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

Seminar Title	Code	Date	Amount
Acceptance and Power Factor Testing	902	Oct. 7/8	\$
Lightning and Surge Protection	320	Oct. 21/22	\$
Medium Voltage VFD's	505	Nov. 4/5	\$
Residual Bus Auto Transfer System	111	Nov. 18/19	\$
Synchronous Motors	610	Feb. 3/4	\$
Synchronous Generators	609	Feb. 17/18	\$
Isolated Generator Systems	611	Mar. 2/3	\$
System Protection	304	Mar. 16/17	\$
Low and Medium Voltage Cable	113	Mar. 30/31	\$
Communication System Integration	112	Apr. 13/14	\$
Low and Medium Voltage Switchgear	207	Apr. 27/28	\$
Total Paid:			\$



IEEE

IEEE Houston Section

2003-2004

Continuing Education On Demand



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

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.

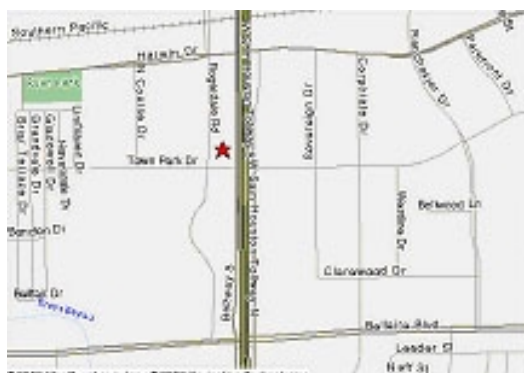
The seminars are intended to stimulate further study and discussion for learning continuance throughout the working career. Topics apply to heavy industries: oil and gas, petro-chem, cogen, pulp and paper, etc.

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 Ray Schmidt at (281) 468-2978.

The following 2003-2004 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:
 Jacobs Engineering
 5995 Rogerdale Road
 Houston, TX. 77072



Enter amount for each seminar:

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

Fall of 2003 IEEE Seminar Schedule

Acceptance and Power Factor Testing (902)
Randall Baker, Dashiell Corporation and Keith Hill, Doble Engineering Company

Oct. 7/8, 2003 6:00-8:50PM
Phasors, instrument transformer testing and load testing of relays/meters are performed. Additional testing topics include Sweep Frequency Response Analysis and power factor testing. [0.5 CEU]

Lightning and Surge Protection (320)
William Nichols, Siemens Westinghouse Technical Services

Oct. 21/22, 2003 6:00-8:50PM
Reviews theory and application of surge protection. Capacitor selection and application is examined. [0.5 CEU]

Medium Voltage Variable Frequency Drives (505)
Richard Osman, Robicon Corporation

Nov. 4/5, 2003 6:00-8:50PM
Theory and application of medium voltage variable frequency drives is reviewed. [0.5 CEU]

Residual Bus Auto Transfer System (111)
James Bowen, Powell Elect. Mfg. Co. and Roy Cossé, PowITech, a part of Powell Elect. Mfg. Co.

Nov. 18/19, 2003 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]

Spring of 2004 IEEE Seminar Schedule

Synchronous Motors (610)
Chris Schartner, GE Canada and Michael Costello, Chevron Texaco Corporation
 Feb. 3/4, 2004 6:00-8:50PM
Practical applications are examined. [0.5 CEU]

Synchronous Generators (609)
Derek King, Brush Electrical Machines Ltd.
 Feb. 17/18, 2004 6:00-8:50PM
Generator theory, physical construction, and application are reviewed and discussed. [0.5 CEU]

Isolated Generator Systems (611)
Peter Evjen, Mustang Engineering, L.P.
 Mar. 2/3, 2004 6:00-8:50PM
Isolated generator system applications are investigated. [0.5 CEU]

System Protection (304)
Roy Cossé, PowITech, a part of Powell Elect. Mfg. Co.
 Mar. 16/17, 2004 6:00-8:50PM
Relaying overview of a complete power system including a brief discussion of primary and backup protection. [0.5 CEU]

Low and Medium Voltage Cable (113)
Donald Voltz, Mustang Engineering, L.P.
 Mar. 30/31, 2004 6:00-8:50PM
Theory, applications, field and factory testing are discussed. [0.5 CEU]

Communication System Integration (112)
Alan Pilcher / Harrison Combs, PowITech, a part of Powell Elect. Mfg. Co.
 Apr. 13/14, 2004 6:00-8:50PM
Reviews modern concepts for integrating meters and relays into one communicating system. [0.5 CEU]

Low and Medium Voltage Switchgear (207)
James Bowen, Powell Elect. Mfg. Co.
 Apr. 27/28, 2004 6:00-8:50PM
Reviews theory and application design basics. [0.5 CEU]

New Senior Members

Congratulations to the recently elected Senior Members from the Houston Section. For a complete list of the new Senior Members see the attached link. www.ieee.org/organizations/rab/md/smupdates.html

Tedd A. Burse
Yadin B. David

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 GOLD Chapter Meeting

GOLD MEMBERS

IEEE GOLD will be having a meeting on Tuesday, October 28 at 7:00 PM at the HESS Club.

The topic for the meeting will be **Financial Planning**.

The quest speaker will be Ms Goldie Gabriel, American Express Financial Advisor. There be plenty of time for questions and answers after her presentation.

And....there will be light refresh-ments at the meeting.

To see how the GOLD program can benefit you, contact either [Kristen](#) or [Rumana](#) and watch the website for future GOLD events.

and watch the website for future GOLD events.

IEEE Houston Section Scholarships 2003



IEEE - Houston Section 2003 Scholarship Winners!

Our three scholarship awards this year went to Haley Overton Wilson - Sr. Computer Science Major, Texas A&M; Allen Wan - Sr. EE Major, Rice University; and Li Qi - PhD Student EE, Texas A&M. Congratulations to all of you. And, we hope to have many more applicants for the awards next year so consider who would be viable candidates now.

Just another reminder to set aside October 17 to participate in our 2nd annual IEEE-Houston Golf Tournament. Proceeds from the event will go to providing \$1,000 scholarships to Section member sons, daughters, grandchildren, etc. We were able to award 3 scholarships this year and look forward to increasing the number in 2004

Selection Criteria for 2004 Listed Below:

In order to promote the interests of the Institute of Electrical & Electronics Engineers (IEEE) - Houston Section, and in support of its dedication to Engineering and Science, scholarship(s) will be awarded annually to selected applicant(s). For 2004, based on the success of the 2003 IEE - Houston Section Annual Scholarship Golf Tournament, (the number of scholarships contingent on golf tournament proceeds) \$1,000 scholarships each will be awarded to both incoming freshman and full time college students who meet the following criteria:

ELIGIBILITY: Limited to a full time student enrolled in an accredited college or university who (graduating high school senior are eligible):

- Is an IEEE - Houston Section member's child or grandchild
****OR****
- Is a member of IEEE (Student Branch or other)

DISCUSSION: By restricting eligibility as above, scholarships are made available to those full time students who have an association with IEEE. This places applicants on a "level playing field" before selection criteria are applied to determine the scholarship recipients. All scholarships will be awarded on merit.

SELECTION CRITERIA:

Merit

- Candidate is enrolled, or is planning to enroll, in an Engineering or Science Curriculum
- His/her cumulative GPA (High School GPA for entering college freshman), SAT or ACT scores
- Discussion paper

DISCUSSION PAPER:

This document will be a key element in the scholarship selection criteria. Topics should include, but not be limited to, the following:

- Employment experience
- Activities/elected positions
- Career goals
- Honors/Awards
- Personal information
- Why are you seeking this scholarship

IEEE Houston Section
2nd Annual Scholarship Golf Tournament

Tournament Details

Date: Friday, October 17, 2003

Time: 8:00 AM Shotgun Start

Place: Newport Golf Club

Type: Fourman Best-ball, shotgun start

Entry Fees: \$110/person or \$400/team
(registered at the same time as a foursome)

Tournament limited to first 36 teams (144 players)

Fair market value for an individual entry is \$80.00 (for tax purposes)

➤➤➤➤➤ Sponsorships Available ◀◀◀◀◀

Includes: 18 holes of golf, range balls, cart, lunch, participation in all of the "club sponsored" awards and prizes, refreshments on and off the course, sleeve of balls, tees

Prizes Awarded: 1st, 2nd & 3rd Gross & Net, Longest Drive,
Closest to the Pin & Door Prizes

Special Events

Door Prize/Mulligan tickets (\$5.00 per)

(No limit on the number purchased for door prizes. Only two can be used per person during the round of golf.)

Fees & donations benefit the IEEE Houston Section Scholarship Fund.
For information, please contact one of the individuals listed below or see our website at:

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

Dwayne Lowry @ 281-565-2316

Donald Dunn @ 281-862-5533

Gil Dolor @ 713-309-2023

P.J. Donner @ 713-945-7771

Scott Ballew @ 713-309-7721

Charles Benard @ 713-978-3790

Region 5 Conference



2004 IEEE Region 5 Technical Conference CALL FOR PAPERS

Chair

Todd Hiemer
METI Corp.
todd.hiemer.pe@ieee.org

SPAC Activities Chair

LoPresti
Tulsa University

Robotics Contest Chair

Monty Tull
University of Oklahoma

Conference Vice Chair

M. A. Ovase
USPS Technical Support Center
ovase@ieee.org

Design Contest Chair

David Waldo
Oklahoma Christian University

Registration Chair

Ken Pigg
UpTime
j.k.pigg@ieee.org

Technical Conference Chair

Nita Patel
RSIS
nita.patel@ieee.org

Paper Contest Chair

Peter Lo Peter
George Scheets
Oklahoma State University

We invite you to participate in the annual Region 5 Technical Conference and Leadership Workshop to be held **April 2-4 2004** in Oklahoma City, OK (<http://www.r5okc.org>).

The conference will provide a unique opportunity for the academic and industrial communities to discuss research interests in the areas of computers, biomedical engineering, and power applications. The conference will offer its attendees high quality technical sessions, tutorials and workshops.

Graduate student authors are invited to submit papers documenting original research in the following areas:

- Computer & Circuit Applications
- Biomedical Engineering
- Power & Industrial Applications

Abstract submission: Abstracts must clearly and concisely state the specific results, why they are important, and how they relate to prior work. Please limit abstracts to one page. The technical committee must receive abstracts electronically no later than **15 October 2003**.

Paper submission: The student must (1) be a member of IEEE, (2) be the first author and primary developer of the idea, (3) have performed the work as part of an academic degree program, (4) pre-register for the conference and (5) present the paper at the conference.

Tutorials/Workshops: Proposals for half-day tutorials and workshops may be submitted to the Technical Conference Chair no later than October 1, 2003. Proposals must include (1) statement of objective, (2) intended audience and (3) outline of the presentation. The technical committee will review received abstracts and notify authors of acceptance by **30 November 2003**.

Please submit abstracts to nita.patel@ieee.org. All submissions will be acknowledged by e-mail within two weeks of receipt. If you do not receive acknowledgment of your submission or are not able to send your submission electronically, please contact the Technical Conference Chair. **Contact** 405.366.9243x3519 (day) 405.307.0479 (evening) nita.patel@ieee.org Nita Patel RS Information Systems 2227 W. Lindsey Ave Ste 1500 Norman, OK 73069

Important Dates

Submission of abstracts
Notification of acceptance
Final camera-ready papers due for publication
Pre-registration deadline

15 October 2003
30 November 2003
1 March 2003
1 March 2003

IEEE-EAB NEWS

NEWS FROM IEEE EDUCATIONAL ACTIVITIES

IEEE EAB ANNOUNCES RECIPIENTS OF 2003 SECTION PROFESSIONAL DEVELOPMENT AWARD

The IEEE EAB Section Professional Development Award recognizes IEEE Sections for major contributions to IEEE members in the areas of life long learning, continuing education, and professional development. The award consists of a brass and walnut plaque. This year's recipients are:

Argentina Section *"For remarkable contributions in continuous education activities, with sustained growth in number, variety and geographical coverage, for the benefit of the technical community"*

Houston Section *"For sustained outstanding contributions in the development, implementation and delivery of a large number and variety of industrially oriented continuing education programs"*

2004 Call for Nominations for this Award will be available in December 2003. For more information, please visit <http://www.ieee.org/organizations/eab/arc/awards/callnominations.htm>.

IEEE EAB SEEKS INDUSTRY PROFESSIONALS TO SERVE AS PROGRAM EVALUATORS FOR ACCREDITATION ACTIVITIES

The IEEE Educational Activities Board (EAB) seeks professionals in industry, government and academic sectors to serve as program evaluators for the following Accreditation Board for Engineering and Technology Inc.-accredited programs at U.S. colleges:

- Biomedical Engineering and Biomedical Engineering Technology
- Computer Engineering and Computer Engineering Technology
- Electrical Engineering and Electrical and Electronic Engineering Technology
- Software Engineering and Software Engineering Technology
- Electromechanical Engineering Technology
- Information Engineering Technology
- Laser-Optics Engineering Technology
- Telecommunications Engineering Technology

Applications for the 2004-2005 academic year are due by 15 Nov. They will be reviewed during the January/February IEEE meetings. Notification will be sent to applicants by 1 March.

Service as a program evaluator gives members of the profession an opportunity to contribute to the achievement of high quality educational standards of engineering and engineering technology programs. Nomination and application forms for people interested in engineering are available at: <http://www.ieee.org/organizations/eab/apc/ceaa/eacinfo.htm>; forms for those interested in engineering technology are at <http://www.ieee.org/organizations/eab/apc/ctaa/tacinfo.htm>.

For more information, contact Carolyn Solimine at +1 732 562-5484 or c.solimine@ieee.org or Mailto:eab-accred@ieee.org.

IEEE EAB INTERNATIONAL ACCREDITATION NEWS

To continue the advancement of international accreditation activities, the IEEE Educational Activities Board is sponsoring a workshop on Engineering Educational Program Accreditation. The workshop is entitled, *Engineering Accreditation Around the World*, and is scheduled for 28-29 September 2003, in Espoo, Finland. The EAB Committee on Global Accreditation Activities (CGAA) will conduct the workshop. An update about this workshop will be posted to the EAB Accreditation web pages at <http://www.ieee.org/organizations/eab/apc/overview.htm>.

STUDENT TEAM MENTORS NEEDED FOR VINNY AWARD COMPETITION

We need your help to act as a mentor for a team of students. Teams will combine skills in research, writing and creativity. Share the wealth of your experience with young learners. Named after Leonardo da Vinci, the VINNY is an award for the best one-minute videos (segmented by age levels) explaining how science, technology, engineering, and mathematics can help solve common global problems. Help shape the future. Sign up to be a mentor by October 31, 2003 at <http://vinny.pcs.cnu.edu>. The VINNY award is sponsored by the NASA Center for Distance Learning,

IEEE-EAB NEWS - CONT.

Christopher Newport University, and IEEE. Funding is provided by the IEEE Foundation.

IEEE WORKSHOP: CONNECTING WITH THE PRE-UNIVERSITY COMMUNITY

Sponsored by The IEEE Foundation, IEEE Life Members Committee, IEEE Region 8, this workshop will take place on 26-28th September 2003 in Nice, France. Workshop goals include:

- 1) Empower Region 8 Section "champions" to develop collaborations with their local pre-university community to promote applied inquiry-based learning.
- 2) Enhance the level of technological literacy of pre-university educators.
- 3) Encourage pre-university students to pursue technical careers, including engineering.
- 4) Increase the general level of technological literacy of students for many years.

Who should attend: IEEE volunteers who are interested in engineering education and who want to share experience and practice from their region and who want to learn from others in the same situation.

What will it cost: The workshop is limited to around 35 people. Sections that send an attendee are asked to make a contribution of \$100 from their Section funds to support the workshop. All other costs (travel, meals and accommodation will be covered for by sponsor funding).

Contacts for more information: Doug Gorham, IEEE Pre-college Education manager (D.G.Gorham@ieee.org) or Simon Jones, R8 Educational Activities (s.r.jones@bath.ac.uk).

IAS Chapter Meeting

Meeting — October 29, 2003

The October IAS Houston Section meeting will include a presentation by Peter Baen of Thermon Americas, Inc. Baen is a Senior Member of IEEE and ISA, and is a published author and frequent presenter of heat tracing topics to consultants, contractors and user companies.

Based in San Marcos, Baen has been with Thermon Industries for over 25 years, presently serving in the Sales Department for the Central Region of the USA. Prior to joining Thermon, Baen had been a member of the faculty of the Mathematics Department at Southwest Texas State University, (now Texas State) where he received BS and MS degrees.

Baen continues to participate in various working groups in Power Engineering Society of the IEEE, but focuses much of his attention to the Industry Applications Society through the Petroleum and Chemical Industry Committee (PCIC) and the Pulp and Paper Industry Committee (PPIC). Along with advancing the standards and practices surrounding the field of electrical heating, he is also an active member of the PCIC Executive Committee.

Informative and entertaining, the program is expected to provide a brief overview of heat tracing for the process industries. The topics to be addressed are to include:

- **Process, Mechanical, and Electrical Engineers: Who "Does" the Heat Tracing?**
- **Self-regulating, Power-limiting, and Constant Wattage Heaters: What's "Best"?**
- **The IEEE 515 Standard and the NEC: Is there a relationship?**
- **What's needed to Estimate the Heat Tracing for a Project?**

Everyone is encouraged to attend and learn more about the complex and often misunderstood field of heat tracing.

WHERE: ABB Lummus Global - Kilgore Conference Room
3010 Briarpark Drive
Houston, TX 77042

WHEN: Wednesday, October 29, 2003
5:30 PM – 7:00 PM

(Refreshments will be served – sponsored by Double-E Engineering)

RESERVATIONS and Information: Julia Dang, IAS Houston Section

Phone: 713-821-4827

Email: julia.dang@us.abb.com

EXECUTIVE COMMITTEE HOUSTON SECTION IEEE

OFFICERS

Dwayne C. Lowry, D.C. Lowry & Associates, Chairman.....	281-565-2316
Gil Dolor, Lyondell Chemicals, Vice-Chair.....	713-309-2023
Scott Ballew, Lyondell Chemicals, Secretary.....	713-309-7721
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IEEE HOME PAGE.....	http://www.ieee-houston.org

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Julia Dang, ABB, Industry Applications.....	713-821-4827
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. 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
OPEN, Publications and Advertising.....	
OPEN, Student Activities.....	
Jimmy Salinas, SW Bell Telephone, Science Fair Coordinator.....	713-567-8095
Scott Ballew, Lyondell Chemicals, Scholarship.....	713-309-7721

FREEPORT SUBSECTION OFFICERS

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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
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Heidar Malki, University of Houston (ET).....	713-743-4075
Tony L. King, University of Houston.....	713-743-4423

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Newsletter Staff

Editors: Lisa Nichols-Dunn, 281-426-4784
E-mail: lnicholsdunn@aol.com

Advertising: 281-426-4784



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IEEE Houston Section
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