



THE POCKET SCOPE



The Institute of Electrical and Electronics Engineers, Inc.

Volume 54, Number 1

September 2003

SCOPE NOTES

September

Houston Section News

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

When: Thursday, September 18, 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
77056-8014

The Chairman's Message

Dwayne Lowry



More than 60 members were present at the 75th Anniversary dinner September 3rd at the Hess building. The evening began with a social hour and a wonderful meal. Hess went out of their make to make this a special evening with such amenities as a piano player. We appreciate their attention to all the little details that make for a special evening.

After welcoming remarks by Yours truly Region 5 Director Jean Eason kicked off the awards by giving a brief and highly interesting history of IEEE and showing where Houston fit into the scheme of things, forming the Houston Section 75 years ago. A banner celebrating our 75th Anniversary will be prominently displayed at our future functions. We appreciate Jean taking the time to come from Dallas to join with us.

Past Chair Donald Dunn introduced and honored the numerous Past Chairs in attendance. A plaque with the names of all Past Chairs dating back to 1963 was on display to acknowledge the service of these dedicated individuals. It will be on display in the Hess building. Jack Shoup provided a collection of great old photos as well as an old AIEE banner, the predecessor organization to the IEEE Houston Section from 1928 to 1963. And Baldy Bridger, our one Fellow in attendance was then honored.

The rest of the evening was taken up with presentation and/or acknowledgement of the many awards that the section has received over the past year. They are worthy of noting here.

Regional Activities Board Sustained Membership Growth Award

This award was given by the Regional Activities Board "for Outstanding Leadership and Results in IEEE Membership Development Activities". This is a special award in recognition of our overall membership growth in 2002 of almost 10%, which placed us first in the world, when many Sections are suffering membership declines.

The U of H College of Engineering Student Branch received several awards

- 2002 IEEE RAB Student Branch Membership Growth Award "For outstanding Leadership and results in IEEE Membership Development Activities for IEEE Region 5
- 2002 IEEE Region 5 Outstanding Large Student Branch Award "In Recognition of Outstanding Achievements in 2002
- 2002 IEEE R5 Outstanding Educator Award "Dr. Stuart Long at U of H"
- 3 Robotics cash awards in the amounts of \$1,000, \$500, and \$300 given for R5 Competition at the R5 Tech Conference in New Orleans April 2002

CONTINUED ON PAGE 2

Chair Message-CONT

Outstanding Small Company Award by R5

Presented to *Gus Zeller - President of Powell Electric*

This award was presented to Powell Electric "In Grateful Recognition of Their Dedicated and Outstanding Service". Nominated for the award by the Section for Powell's commitment to Continuing Education program by providing both facilities and people to help with this award winning program.

Recognition of Contributions to CED Program – by Section

This special award was given to Mitch Pliner and Andrea Nutley of Turtle and Hughes for their dedicated efforts in getting the CED Program off the ground and running. Roy Cosse, who made the presentation, gratefully stated that without their help the program could not have been the world class success that it has become.

ComSoc Chapter Achievement Award

The ComSoc Society Chapter has been recognized as one of only 6 Chapters in North America and 14 worldwide to receive the "Chapter Achievement Award". This award is given by the Membership Development Council to ComSoc Chapters that continuously provide their members with high-level programs and activities. Congratulations to the Chapter and special recognition to its past-chair, **Ransom Siler**, for his outstanding leadership over the past years

GOLD (Graduate of the Last Decade) Chapter Award

IEEE RAB GOLD Committee presented a certificate to the IEEE Houston Section in recognition and appreciation of leadership and continued support to the IEEE Houston Section GOLD Affinity Group. The support enabled the Gold group's enthusiasm and activities be formalized and accepted into the IEEE community.

ECH (Engineering Council of Houston) summer internship Dwayne

To receive the Award: **Lily Banerjee (recognize parents & sib)**

This award was given at the 2003 Houston Science and Engineering Fair sponsored by ECH. It was for a Summer Internship to the Museum of Science and is presented to High School student, Lily Banerjee, in recognition of the quality of her project as well as the communication skills exhibited at the Science Fair. Her winning submission in the Engineering Category was entitled: *Compound Eye: For Motion Detection & Discrimination.*

Professional Development Award presented by 2003 IEEE Educational Activities Board (EAB)

The Award was given "for sustained outstanding contributions in the development, implementation and delivery of a large number and variety of industrially oriented continuing education programs". This very prestigious award given by the RAB BOD which is comprised of the 3 RAB presidents, (current, future and past), IEEE-USA Pres, IEEE Standards Pres, VP RAB, VP TAB (technical), VP EAB, VP Publications, 10 divisional directors, 10 regional directors. The award is being presented to the Section in November in Seattle.

Presentation of Scholarship Awards

In order to promote the interests of IEEE-Houston Section and in support of its dedication to Engineering and Science, one more scholarships will be awarded annually to selected applicants. Eligibility is limited to a full time student enrolled in an accredited college or university who is an IEEE-Houston section member's child, grandchildren, or is a member of IEEE (Student Branch or other). Candidates must submit a discussion paper detailing, among other things "why are you seeking this scholarship?". This year's \$1,000 scholarship winners were:

Haley Overton Wilson - Sr. Computer Science Major, Texas A&M

Allen Wan - Sr. EE Major, Rice University

Li Qi - PhD Student EE, Texas A&M

CONTINUED ON PAGE 3

Chair Message-CONT

Be sure to join us September 18 at the Section meeting which will feature **Don Shafer**, a co-founder, corporate director and Chief Technology Officer of Athens Group, Inc. Incorporated. The Athens Group is an employee-owned consulting firm, integrating technology strategy and software solutions. Don will talk about software simulation and this proves to be a very interesting and informative evening.

And, while you're marking your calendars, put a big red checkmark on October 17 and come participate in our 2nd annual IEEE-Houston Golf Tournament. Proceeds from the event will go to providing the \$1,000 scholarships to next years deserving recipients.

We have two calls for papers. The first is for students to participate in the annual Region 5 Technical Conference and Leadership Workshop to be held April 2-4 in Oklahoma City, OK. See details elsewhere on the website. The other "Call" is for the PCIC Technical Conference in San Francisco September 13-16, 2004. Details are included in [this PDF flyer](#).

Other Items of Interest:

Election Ballots Have Arrived

I'm sure you have received ballots for the annual election of an IEEE President-Elect and other officers. Find out more details at the link below and then be sure to cast your vote. We have some quality R5 leaders running for office. Let's be sure to support them. http://www.theinstitute.ieee.org/inst_art.jsp?isno=07031&arnumber=07031_7w.newselections§ion=41

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/>

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Utah State University
Logan, UT 84322-4120
Phone: (435)797-2924
Fax: (435)797-2003
email: moorek@ece.usu.edu

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.

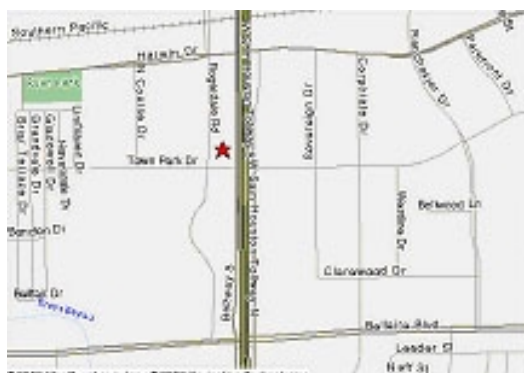
The seminars are intended to stimulate further study and discussion for learning continuance throughout the working career. Topics apply to heavy industries: oil and gas, petro-chem, cogen, pulp and paper, etc.

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]

IAS/PCIC Annual Conference



Welcome to PCIC 2003 / Houston, Texas (from Mr. Kirk Armintor, Local PCIC Committee Chairman)

Welcome to Houston!

The Petroleum and Chemical Industry Committee of the Industry Applications Society of IEEE Invites you to the 50th Annual PCIC Conference in Houston, Texas USA. This PCIC Conference is the Industry Application Society's premier meeting for the practicing electrical engineer seeking practical information directly applicable to his or her work.

The Conference will be held September 15 – 17, 2003 at the Westin Galleria Hotel, located in The Galleria set beneath spectacular glass atriums. Between the Westin Galleria and the Westin Oaks, most or all of the conference attendees will be accommodated. The Galleria complex features 300 fine stores, restaurants and an impressive ice rink. This world-class shopping complex showcases the best names in retailing including Neiman Marcus, Cartier, Gucci, Macy's, Tiffany & Co., Saks Fifth Avenue, The Sharper Image, Ralph Lauren Collection, Lord & Taylor and St. John. A 700,000 square-foot expansion added 70 stores, including Foley's and Houston's first Nordstrom.

With the expansion, The Galleria has become the fifth largest mall in the nation highlighted by nine types of stone, suspended glass balconies, three types of wood, glass skylights, and plush leather seating. With three office towers, two hotels, 1.7 million square feet of retail space, and a variety of restaurants, The Galleria is a city within a city.

Houston is one of the most diversified city's on the Gulf Coast, if not the nation, with a \$15-billion petrochemical complex. Houston is a major U.S. gateway for international trade, and ranks number one in the nation in foreign tonnage and second in total tonnage. There are 77 countries represented in the area with consulates.

The renowned Texas Medical Center is home to 42 non profit institutions on 675 acres, ranking it as the largest medical center in the world. The Texas Medical Center has an estimated economic impact of \$11.5 billion a year on Houston's economy.

Houston's NASA/Johnson Space Center trains America's astronauts and coordinates operations development and design work for the space missions, Space Shuttle and the International Space Station.

The IEEE PCIC 2003 Houston Local Committee welcomes you to Houston with open arms. Great quest tours are planned. Ya'll come, stay a while and you will wonder why you went back home. We look forward to a fantastic Golden Anniversary with a very large quest attendance. After all, where else can you learn so much about your professional calling and have such a good time along the way. http://www.ieee-pcic.org/Conferences/2003_Houston/index.html



Kirk Armintor
Local 2003 PCIC Committee Chairman
Houston, Texas

IAS/PCIC Annual Conference Call for Papers

Petroleum and **C**hemical **I**ndustry **C**ommittee

www.ieee-pcic.org

Call for Papers

51st Annual

IEEE IAS Petroleum and Chemical Industry Committee

Technical Conference

September 13 - 16, 2004

San Francisco Marriott, San Francisco, California

This is a premier conference for practicing electrical engineers, and selected papers are noted for high quality and practical application. Papers are requested on topics related to practical application of electrical technology, standards, equipment and systems of interest in the petroleum and chemical industries. All papers presented will be published in the conference record and subjected to a thorough peer review & evaluated for subsequent publication in either the IEEE Transactions on Industry Applications or Industry Applications Magazine. Authors must be in attendance to present their papers. The proposals will be reviewed and selected during the 2003 PCIC Technical Conference, September 15-17, 2003 in Houston, Texas.

Submission Calendar Deadlines:

Submittal of abstracts to General Program Chair Sept. 1, 2003

Notification of acceptance of submitted abstracts Oct. 1, 2003

Submittal of working drafts for Technical Review Nov. 30, 2003

Submittal of finished manuscripts May 1, 2004

To Submit a Proposal:

The following information must be included with the paper proposal. Submission by email or file attachment is preferred and will facilitate the review of your proposal:

1. Title of proposed paper
2. Author(s) name, company affiliation, e-mail address, business address, phone, fax (all of the information for each author), with the lead or corresponding author identified.
3. A 100-300 word abstract
4. If you have a preference, indicate if you wish to direct the paper to a specific subcommittee by noting the name of the subcommittee: Chemical, Electrochemical, International, Marine Industry, Production, Refining, Safety, or Transportation.

Submit your paper proposals to:

H. Landis Floyd, PE

PCIC 2003-2004 Vice Chair and General Program Chair

DuPont

101 Beech Street

Wilmington, Delaware 19880 USA

Phone: 302-695-0146 Fax: 302-695-0734:

email: h.l.floyd@ieee.org

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

Cajetan M. Akujuobi
Joseph K. Armintor
Pete S. Evjen
Michael T. Kinniff
Craig A. Mouton
Donald A. Voltz

Michael D. Alford
Michael J. Costello
Jimmy B. Johns
Deepa Kundur
Thomas P. O'Brien
Freddie P. Wong

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.

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 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

International Symposium on Intelligent Control



2004 IEEE Region 5 Technical Conference CALL FOR PAPERS

Chair

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

Conference Vice Chair

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

Technical Conference Chair

Nita Patel
RSIS
nita.patel@ieee.org

SPAC Activities Chair

LoPresti
Tulsa University

Design Contest Chair

David Waldo
Oklahoma Christian University

Paper Contest Chair

Peter Lo Peter
George Scheets
Oklahoma State University

Robotics Contest Chair

Monty Tull
University of Oklahoma

Registration Chair

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

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	15 October 2003
Notification of acceptance	30 November 2003
Final camera-ready papers due for publication	1 March 2003
Pre-registration deadline	1 March 2003

September 18 SECTION MEETING

See the Houston Section web site to confirm your reservation.

Title: Use of Simulation to Mitigate Risk on Oil Platform Software and Network Subsystems

Abstract: The purpose of this presentation is to provide an explanation for these theses:

- 1 Simulation of software and network subsystems is an activity separate from, and requiring different tools and skills than either hardware or training simulations;
- 2 Simulation must be accounted for in the development life cycle used for the software and network subsystem components of any product; and
- 3 Simulation of software and network subsystems is a cost effective risk mitigation tactic begun early in the product life cycle.

Speaker: Don Shafer is a co-founder, corporate director and Chief Technology Officer of Athens Group, Inc. Incorporated in June 1998, Athens Group is an employee-owned consulting firm, integrating technology strategy and software solutions. Prior to Athens Group, Shafer led groups developing and marketing hardware and software products for Motorola, AMD and Crystal Semiconductor. He was responsible for managing a \$129 million-a-year PC product group that produced award-winning audio components. From the development of low-level software drivers in yet-to-be-released Microsoft operating systems to the selection and monitoring of Taiwan semiconductor fabrication facilities, Shafer has led key product and process efforts. In the past three years he has led Athens engineers in the analysis, verification, validation and simulation of drilling, safety and positioning systems for deep water oil platforms. His latest patents are on joint work done with Agilent Technologies in state-based machine control. He earned a BS degree from the USAF Academy and an MBA from the University of Denver. Shafer's work experience includes positions held at Boeing and Los Alamos National Laboratories. He is currently an adjunct professor in graduate software engineering at Southwest Texas. With two other colleagues in 2002, he wrote Quality Software Project Management for Prentice-Hall now used in both industry and academia. Currently he is one of the authors for the IEEE Software Engineering Series.

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**)

IEEE-EAB NEWS

NEWS FROM IEEE EDUCATIONAL ACTIVITIES (September 2003)

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).

IEEE-Globalization Forum

IEEE in Central Texas Announces Globalization Forum October Event in Austin To Focus on Technology Policy Issues

Tuesday, Aug 8th—Austin, TX—IEEE-USA and IEEE-Central Texas Section announced their upcoming debut forum, “Globalization & Technology: A Dialogue on Policy Issues.”

Scheduled for Friday, October 17 at the Capitol Marriott in Austin, Texas, the all-day event is expected to foster open discussion among government, academic and corporate leaders in a forum focused on the effect of globalization on public policy and technology.

Recognizing that Central Texas is a worldwide center of technology, speakers and audience will discuss how technology advances impact the world’s economies and cultures, what policies the U.S. should adopt with regards to the globalization of technology, and how these shifts in policy shape the technology sectors. Exploring the future in terms of the impact of

IEEE-Globalization Forum

globalization on the region is fundamental to the future prospects of this region as well as the Nation's technology advances.

“It is abundantly clear that the rapid globalization of technology is having a fundamental impact on our economy and society, here in Texas as well as across the nation,” says Ralph W. Wyndrum, IEEE-USA's Vice President for Technology Policy Activities. “The IEEE-USA and IEEE Central Texas Section aim to provide a forum where government, corporate, academic, and professional leaders can explore the opportunities and openly discuss some of the issues that arise through that globalization trend.”

Keynote speakers and peer panels with industry moderators will explore globalization issues regarding technology transfer and commercialization, security and privacy, communications, energy and education. The one-day forum is scheduled from 7:30 am to 4:30 pm (forum includes continental breakfast, lunch and closing reception), and will be held at the Austin Marriott at the Capitol, 701 East 11th Street in Austin. Registration by credit card is currently available online at www.ieee.org/CTS.

IEEE (Institute of Electrical and Electronics Engineers, Inc.) is a non-profit, technical professional association of more than **350,000 individual members in 150 countries**. Through its members, the IEEE is a leading authority in technical areas ranging from computer engineering, biomedical technology and telecommunications, to electric power, aerospace and consumer electronics.

Through its technical publishing, conferences and consensus-based standards activities, IEEE produces **30 percent** of the world's published literature in electrical engineering, computers and control technology, holds annually more than 300 major conferences and has nearly 900 active standards with 700 under development.

IEEE-USA is an organizational unit of IEEE that was created in 1973 to advance the public good, while promoting the careers and public-policy interests of the more than 235,000 electrical, electronics, computer and software engineers who are U.S. members of the IEEE.

For more details regarding this forum, please contact **Emily Sopensky, Conference Chair: 512/452-2448** or e.sopensky@ieee.org. Online registration is available at www.ieee.org/CTS.

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