



THE POCKET SCOPE



The Institute of Electrical and Electronics Engineers, Inc.

Volume 52, Number 3

November 2001

SCOPE NOTES

November Houston Section News

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

When:
Thursday, December 6, 2001
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>

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



The Chairman's Message

Donald Dunn

Our second section meeting for 2001 will be Thursday, December 6th, 2001 and the speaker will Mr. Ray Miller of "The Eyes of Texas" fame. Please come out and join us as Mr. Miller is an excellent speaker and always discusses very diverse topics.

I would like to thank all of the individuals that have attended this years CED program. The Houston Section and the local Industrial Applications Society Chapter work hard to provide timely topics for those that are interested. Take a look at the up coming seminars that will be held in 2002. Again, We are interested in finding individuals within the Communications & Computer Societies that would be interested in helping those existing technical chapters begin a CED program for their members.

In this month Industry Applications Magazine, the editor, Andrew Smith has written an excellent column "Sleeping with the Competitor". Andy's conclusion is "Electrical technology professionals must stay technically current if our respective companies are to remain competitive in the global marketplace. IEEE membership, through its conferences, publications standards, and educational opportunities, contributes to professional growth and, thereby, to company's ability to compete." If you have access to the complete article, take the time to read it in full it is well worth it.

We are always interested in new volunteers as the IEEE is a volunteer organization. We have had several people contact one of the Houston Section officers and a few have attended the monthly Excom meeting. Again, if you are interested in becoming active, please take the time to consider volunteering in some capacity; the return on time invested is well worth it. Contact one of the individuals within the section Excom committee and attend one of our planning meetings. We have many opportunities for you to contribute and to develop a larger network of professionals from which to draw.

Our employment section on the IEEE Houston Section Website is continuing to grow. Take the time to visit the site and forward the information on to individuals within your companies that are seeking IEEE engineers <http://www.ieee-houston.org/>. Again, this feature is a service for the IEEE membership within the Houston Section and is at no cost to the individuals or companies placing the basic ads.

The Region 5 conference will be held in Clear Lake in April of 2002. We are looking for Corporate Sponsors that may be interested in helping defer the cost of the conference. The Galveston Bay and Houston Sections of the IEEE are hosting it this year. It will have four technical tracks with many distinguished speakers from the Houston area. Visit the Houston section website <http://www.ieee-houston.org/> for the latest information on this conference. If your company is interested in sponsoring a portion of the event, contact Zafar Taqvi <mailto:Zafar.Taqvi@SW.Boeing.com> or myself <mailto:donald.dunn@ieee.org> for more information.

Joel Snyder, the President of IEEE, recently wrote a short e-mail on a new service. It's a selection of free email newsletters called "What's New @ IEEE" (<http://www.ieee.org/whats-new>). "What's New" provides the latest news on IEEE activities, industry trends, member benefits, career tips, and new IEEE products. There are 11 newsletters for engineers and other technology professionals. Take a look at page 3 for Joel Snyder's complete e-mail and the topics of the updates. I've found this IEEE service to be excellent in keeping me current in the topics that are of interest.

We are in the process of planning our First Annual IEEE Houston Section Scholarship Golf Tournament. It will be held at the Greatwood Country Club in April of 2002. We have a couple of individuals that have graciously offered to help plan this event, but we are looking for more. We are also seeking corporate sponsorships; if your company is interested please contact Dwayne Lowry <mailto:dclowry@gncxnet.net> or myself <mailto:donald.dunn@ieee.org>.

As always the Executive Committee and I look forward to your feedback and comments. If you have suggestions and/or are interested in becoming active within the section or a local society chapter, contact one of us. Without the active participation and feedback from you the members, the programs and content of the IEEE would be lacking.

IEEE CONTINUING EDUCATION ON DEMAND

2001-2002 REGISTRATION FORM

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

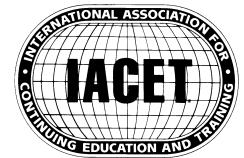
Seminar Title	Code	Date	Amount
Factory & Field	911	Oct. 2/3	\$
Standby Pwr Systems	115	Oct. 16/17	\$
Induction Motors	601	Oct. 30/ 31	\$
MV & LV Mtr Control	702	Nov. 13/14	\$
Safety by Design	114	Feb. 5/6	\$
Syn Generators	602	Feb. 19/20	\$
Governor Control	607	Mar. 5/6	\$
Excitation Systems	608	Mar. 19/20	\$
MV & HV Cable	113	Apr. 2/3	\$
MV Fuse & Interrupter Switches	315	Apr. 16/17	\$
Applying IEC Standards	801	Apr. 30 / May 1	\$
Total Paid:			\$



**IEEE
Houston
Section**

2001-2002

**Continuing
Education
On Demand**



Spring 2002 IEEE Seminar Schedule

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

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

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

For a cancellation refund, telephone by the Friday before the seminar:
 Contact Beatriz Rey at (713) 821-4027

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

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

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

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.

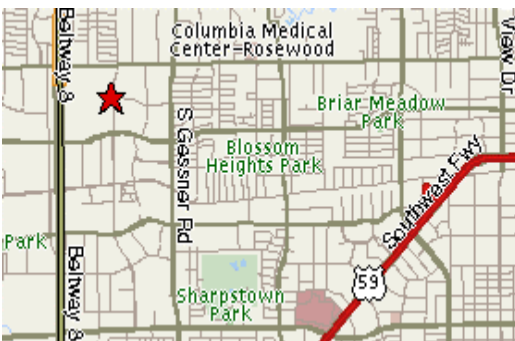
The seminars are intended to stimulate further study and discussion for learning continuance throughout the working career. Topics apply to heavy industries: oil and gas, petro-chem, cogen, pulp and paper, etc.

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 Beatriz Rey at (713) 821-4027.

The following 2001-2002 seminar schedule defines the topics, dates and times. A course syllabus is available on request. Minimum class size is twenty for each seminar. Seating is limited and filled on an as received basis. Presentation documents are provided. A buffet is served from 5:00PM-6:00PM.

Seminar location:
 ABB Power T&D Company
 P.O. BOX #42802
 HOUSTON, TX. 77242
 Contact Beatriz Rey
 (713) 821-4027



Enter amount for each seminar:

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

2001-2002 IEEE CED Seminar Schedule

Factory & Field Transformer Testing (911)
Waldemar Ziomek, Pauwels Transformers, Inc.
 Reviews Techniques and Industry Standards
 Oct. 2/3, 2001 6:00-8:50PM
[0.5 CEU]

Standby Power Systems (115)
Brad Roberts, S&C Electric Company
 Reviews Theory and Practical Applications
 Oct. 16/17, 2001 6:00-8:50PM
[0.5 CEU]

Induction Motors (601)
Charlie Pounds, LBS Engineers
 Reviews Practical Applications
 Oct. 30/31, 2001 6:00-8:50PM
[0.5 CEU]

Medium & Low Voltage Motor Control (702)
James Bowen, Powell Electrical Mfg. Co.
 Reviews Applications and Design
 Nov. 13/14, 2001 6:00-8:50PM
[0.5 CEU]

Safety By Design (114)
James Bowen, Powell Electrical Mfg. Co.
 Discusses Various Safety Issues
 Feb. 5/6, 2002 6:00-8:50PM
[0.5 CEU]

Synchronous Generators (602)
Charlie Pounds, LBS Engineers
 Reviews Theory and Techniques
 Feb. 19/20, 2002 6:00-8:50PM
[0.5 CEU]

Governor Control (607)
Peter Evjen, Solar Turbines, Inc.
 Reviews Theory and Applications
 Mar. 5/6, 2002 6:00-8:50PM
[0.5 CEU]

Excitation Systems (608)
Fred Wolf, Basler Electric
 Reviews Applications
 Mar. 19/20, 2002 6:00-8:50PM
[0.5 CEU]

Medium and High Voltage Cable (113)
Wayne Madden, Okonite Co.
 Theory, Applications, Field and Factory Testing
 Apr. 2/3, 2002 6:00-8:50PM
[0.5 CEU]

Medium Voltage Fuse & Interrupter Switches (315)
Neville Parry, Cutler Hammer
 Reviews Applications and Design
 Apr. 16/17, 2002 6:00-8:50PM
[0.5 CEU]

A MESSAGE FROM IEEE PRESIDENT JOEL SNYDER

Dear fellow IEEE member:

I'd like to tell you about an IEEE service that I've found to be invaluable in all aspects of my professional life. It's a selection of free email newsletters called "What's New @ IEEE." <http://www.ieee.org/whats-new> "What's New" provides the latest news on IEEE activities, industry trends, member benefits, career tips, and new IEEE products. There are 11 newsletters for engineers and other technology professionals. I subscribe to all of them, but you can select as many as you would like.

You can choose from the following "What's New @ IEEE" newsletters:

Circuits	Communications
Computing	Eye on Washington (USA)
Graduates of the Last Decade	Libraries
Members	Power
Signal Processing	Students
Wireless	

It's easy to subscribe or unsubscribe, so you control what information you receive. To subscribe, simply logon to <http://www.ieee.org/whats-new>. Then select one or more of the email newsletters, enter your email address and click "subscribe." Your email address will not be shared with anyone outside of IEEE.

I'm very pleased that IEEE has developed a service such as this. I encourage you to sign up for this free "What's New" email newsletter service and give it a try.

Sincerely,

Joel Snyder
2001 IEEE President

GLOBECOM 2001

November 25-29, 2001

GLOBECOM 2001, worldwide communications conference will be held this year in the richly historic city of San Antonio, Texas. San Antonio serves as a wonderful conference location with many amenities, events, and unique places to enjoy.

The theme for the conference, "The Evolving Global Communications Network", awakens the true feeling that the world communications network is forming, changing, and growing at a tremendous rate. A global conference, GlobeCom, is critical to the industry by continuing to teach new ideas within traditional communications technology, while adding many of the next generation theories and practices.

Over 1500 technical papers have been received from authors in 52 countries, and about half will be presented and published at the conference. Authors will be notified in July. The principal topics are Broadband Wireless, Quality of Service, Voice Integration on Data Networks and Advanced Communications Theory.

Dr. Robert Lucky of Telcordia Technologies will be the Keynote Speaker, and Ross Ireland, CTO of SBC, will open conference. Numerous speakers from industry will host Business Applications Sessions to discuss current applications of these new technologies.

For more information go to:

<http://www.globecom2001.com/src/start.shtml>

PACE PRESENTATION

IEEE Galveston Bay Section Professional Awareness Committee (PACE) Presents a

WORKSHOP

on

BUILDING A COLLABORATIVE TEAM
(as a part of Section MPAC program)
with DINNER

Wednesday, December 5th, 2001, 6:30 PM at NASA HILTON

Agenda

6:15 PM	Registration
6:30-7:15PM	Dinner
7:15- 9:30 PM	Workshop on BUILDING A COLLABORATIVE TEAM
	<ul style="list-style-type: none"> • Inter-group Coordination Goal • Flight of the Buffalo-Video • High Performance Work Systems • Improving Team Effectiveness • Communication and Change • Case Study • Discussion and Evaluation

WORKSHOP OBJECTIVES (A series of presentations to)

*Understand the characteristics of a High Performance Work System (HPWS), *Understand the mechanisms of accomplishing group coordination goals, *Understand how to build a collaborative team and what teams must do to be effective and empowered, *Understand the role of interpersonal relationships on teams, *Identify the characteristics of effective communication and change strategies

Presenter: **Dr. James Peters**

ISS Operations - Principal Scientist & Engineer, The Boeing Company

In addition to being the lead of Space Station team responsible for assembly operations and on-orbit flight procedures and a Facilitator and Instructor for the Organizational Effectiveness team, Dr. Paters teaches graduate and undergraduate aeronautical science and aviation management courses as an Associate Professor at Embry-Riddle University. Prior to joining Boeing, he was with U.S. Navy as a nuclear submarine officer stationed on the USS Hyman G Rickover (SSN-709), he also worked for two years as a Lead Engineer for E-Systems, designing aircraft mission enhancement modifications. Dr. Peters completed his Ph.D. in Engineering Management at the University of Alabama in Huntsville in 1997 and holds Masters Degrees in Mechanical and Aerospace Engineering from The University of Alabama (Huntsville) and Maryland respectively. He completed his Bachelor's Degree in Aerospace Engineering from the U.S. Naval Academy where he also earned Academic All-American honors in the sport of Wrestling.

Reservation Mandatory, Seats Limited

(Workshop charges are subsidized by IEEE GBS PACE Committee)

Registration Cost (includes dinner) –

IEEE Members	\$10 (before COB November 30th)
Non-IEEE Members	\$15 (before COB November 30th)
IEEE Members	\$15 (after November 30th, on seat availability basis)
Members	\$25 (after November 30th, on seat availability basis)

CONTACT: Rita Dawson at 282-244-4993 or email Rita.Dawson@SW.Boeing.Com

NO SHOWS WILL BE BILLED

For details consult section Website: **WWW.GHGCORP.COM/IEEEGBS/**

DECEMBER 6 SECTION MEETING

Mr. Ray Miller "Eyes of Texas"

Mr. Ray Miller of "Eyes of Texas" fame will be the speaker at the Thursday, December 6, 2001 section meeting. Plan on attending this presentation, since Mr. Miller has always covered very diverse topics that are of great interest. As always the December meeting is family night, so please plan on bringing your family to the meeting.

EMBS MEETING

Engineering Medicine and Biology Society Meetings

November 9 Phase Resetting and Sensory Inhibition: Single-Trial Auditory Evoked Potential Analysis

Ben Jansen, PhD Department of Electrical and Computer Engineering, University of Houston

November 16 Ultrasound-Mediated Biophotonic Imaging

Lihong Wang, PhD Biomedical Engineering Program, Texas A&M University

All seminars take place in Room 102D, Engineering Building, University of Houston.

For more information, please contact Periklis Ktonas at (713) 743-4429.



Monthly Meeting Announcement

***Illuminating Engineering Society
San Jacinto Section***

Topic:

“Nikola Tesla- Edison’s Alter Ego and Modern Prometheus”

Presented by:

Fred Oberkircher- Texas Christian University

Date:

January 15th, 2002

Time:

11:30AM-1:00PM

Location:

H.E.S.S. Club, 5430 Westheimer, Houston, TX 77056



Come join us for a very informative session on the life and times of Tesla. Tell a friend or bring a colleague!

Cost: \$25 members, \$30 non-members includes lunch.

R.S.V.P.: Please respond no later than Jan. 11th to Steve Brown at 713-462-6258, fax is 713-462-6282, or email at stevebr@FSGconnect.com

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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.

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