



THE POCKET SCOPE



The Institute of Electrical and Electronics Engineers, Inc.

Volume 52, Number 5

January 2002

SCOPE NOTES

January Houston Section News

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

When:
Thursday, February 28, 2002
6:00 - 6:30 p.m. Social
6:30 - 7:30 p.m. Dinner
7:30 - 8:30 p.m. Speaker

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

See Page 2 for the Continuing Education Schedule!

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

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



The Chairman's Message

Donald Dunn

On behalf of the Houston Section Executive Committee (Excom), I would like to invite all members to take the opportunity this year to become active within the section. There are many activities within the section to enhance one's self both professional and personally. The Excom and myself are looking forward to again provide a broad spectrum of member activities in 2002. The Excom has decided to make the four Section Meetings in 2002 free of charge to all IEEE members who attend. Our next section meeting is on February 28, 2002, at the HESS building.

The Houston Section CED program will be back in swing next month (February 2002) with several courses that cover new and exciting topics. Please take some time and visit the web site to see what will be offered this year. In addition, if there is subject material that you would like to see included in our CED program, please email the suggestions for consideration.

The Houston Section will be manning booths at the SWEE-April 2002 and OTC-May 2002 Conferences this year promoting the IEEE. We need volunteers to help us man these booths and promote the IEEE. If you are interested contact one of the Excom members.

Mark your calendars! The First Annual IEEE Houston Section Scholarship Golf Tournament 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 email [Dwayne Lowry](mailto:Dwayne.Lowry) or myself.

The Houston and Galveston Bay Sections are hosting the IEEE Region 5 Conference in April 2002. We are seeking Corporate Sponsors for the upcoming event in April of 2002. We are seeking Corporate Sponsors as follows: Bronze (\$1000), Silver (\$2000) or Gold (\$3000) levels. We are also seeking sponsors of certain events breakfast, lunch, banquet, and hospitality program. We will provide acknowledgement of each sponsorship in the brochure, Website and recognize them formally. If your company may be interested in financially supporting this technical conference please contact Zafar Taqvi, Ph.D. or Donald G. Dunn. For more information see the attached web link. www.ieee-houston.org/Reg5Conf/Default.htm

The Houston Section lead Region 5 with the most members upgraded to Senior Member grade in 2001. IEEE has challenge the sections to exceed last years totals by nominating qualified members. I am looking for members who meet the following criteria: for elevation to Senior Member status, ten years of professional practice including five years of significant performance, and references (See the nominator letter and application form for clarification on the IEEE website). 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 you 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.

The Houston Section is seeking new volunteers, as you all are aware 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. The Excom meets at the HESS building each 4th Thursday of the month with the exception of a few summer months. We have many opportunities for you to contribute and to develop a larger network of professionals from which to draw.

The Executive Committee and I hope each of you enjoyed a safe and happy holidays. We are looking forward to an exciting year in 2002 and as always we are looking for your feedback and comments.

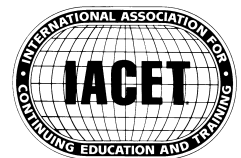
IEEE CONTINUING EDUCATION ON DEMAND

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
 BEARTIZ 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://\(www.ieee-houston.org\)](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:
 IEEE member early signup:
 Non-member registration:



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]

Protective Relay Engineers Conference

CONFERENCE FOR PROTECTIVE RELAY ENGINEERS
TEXAS A&M UNIVERSITY
College Station, Texas
April 9-11, 2002

The Planning Committee of the 55th Annual Conference for Protective Relay Engineers invites you to attend the conference at Texas A&M University on April 9-11, 2002. The Protective Relay Conference provides a forum for engineers to discuss protection technology and related subjects. Both tutorial presentations on fundamental concepts and papers on new technology are included. The program will include the following:

- ◆ New protection equipment descriptions
- ◆ Relay application ideas and new concepts
- ◆ Case Studies and "Horror Stories"
(When the relays worked - and when they didn't!)

Registration Information: Pre-Registration: \$185 (begins January 2, 2002)
After March 19, 2002 \$210

Manufacturers: For hospitality suites, please contact Lydia Godfrey at the College Station Hilton and Conference Center at (979) 694-4903

This conference offers Continuing Education Credits

Web site: engineering.tamu.edu/prorelay/

For Information: Dr. B. Don Russell
Associate Vice Chancellor
College of Engineering
Texas A&M University
College Station, TX 77843-3126
(979) 845-8912

For Registration: Ms. Jacque Hand
Conference Registration
2nd Floor Rudder Tower
Texas A&M University
College Station, TX 77843-1232
(979) 845-7692

In Conjunction with the 55th Conference for Protective Relay Engineers

A

PRE-CONFERENCE SPECIAL OFFERING

"Tutorial on Application and Protection of Shunt Capacitor Banks"

In Cooperation with the Power System Relay Committee of PES

Monday, April 8, 2002.....1:30 - 5:00 p.m.....College Station Hilton – Brazos Amphitheater

Presenters: Simon Chano, Hydor Quebec; Roger Hedding, ABB Automation; Pratap Mysore, Xcel Energy

Tutorial, based on recently revised IEEE guides, is intended to provide basic understanding of various capacitor bank designs such as externally fused, internally fused and fuseless banks. Since the protection is influenced by the bank design, commonly used protection methods associated with each design, will be presented. System consideration and transients due to capacitor switching and its effect on other power system equipment will also be discussed.

DG Conference 2002

The IEEE Kansas City Section hosts A National Engineers Week 2002 Conference

Distributed Generation:
February 20 & 21, 2002
Double Tree Hotel
Overland Park, Kansas
913-451-6100
Benefits & Challenges

Keynote Speaker: Ron Oligney
Co-Author of the Best Selling Book "The Color of Oil"

A global political and economic view of the future of hydrocarbon fuels and a look forward towards a potential hydrogen based energy economy.

Wednesday, February 20 — DG Tutorials. Discover design pros/cons of each DG option.

- Grid Interconnection: Automation and Controls
- Reciprocating Engines
- Industrial Turbines
- Fuel Cells
- Microturbines
- National DG Electrical Installation Standards (NEIS) for DG

Wednesday Evening

Vendor displays and hosted reception. DG demonstrations.

Dinner Speaker: Edward Tirello, Wall Street Energy Analyst

The Role of DG in the Energy Marketplace.

Thursday, February 21 — Conference Presentations

- Welcome & Introductory Remarks
- Keynote: Ron Oligney, "The Color of Oil"
- Case Study: Reciprocating Engines
- Case Study: Industrial Turbine Combined Heat and Power
- Luncheon Speaker: Tom Basso "Status of IEEE DG Interconnect Standard 1547"
- Case Study: Microturbines
- Case Study: Fuel Cells
- Panel: DG From the Utilities Perspective

Conference Information site www.ieee-kc.org/dg/

Registration Information

Call Kim Good (913) 967-1865
Fax (913) 967-1898
E-mail at kgood@primediabusiness.com

Register: By January 15, 2002 After January 15, 2002

Wednesday: \$180 \$240

Thursday: \$180 \$240

Combined \$300 \$400

Register early to win a color Palm M505

2002 Engineer of the Year

Media Contact:
Mark Gribble, P.E.
281-340-8900

PRESS RELEASE

Release Date: December 11, 2001: 12:00pm

“The Houston Engineering Community Has Selected Mr. Arthur L. Storey, Jr., P.E. as the 2002 ENGINEER OF THE YEAR”

Mr. Arthur L. Storey, Jr., P.E., has been selected as the 2002 Houston Area “Engineer of the Year.” The selection was made by representatives of various Houston engineering organizations and is based on Mr. Storey’s outstanding educational, civic, professional, technical and humanitarian achievements and contributions. Mr. Storey will be honored during the nationwide celebration of Engineers Week and at a formal presentation banquet on Saturday, February 23, 2002.

Mr. Storey graduated from Rice University in 1959 with a Bachelor of Arts degree, and from Lamar University in 1965 with a Bachelor of Science degree in civil engineering. Before entry into county government he was an officer in three consulting engineering firms in the Houston area.

Mr. Storey was appointed Executive Director of the newly created Harris County Department of Public Infrastructure in June 1998 and served simultaneously as County Engineer and Executive Director of the Harris County Flood Control District. He is a registered professional engineer in Texas with over 35 years experience in the design and construction management of a multitude of engineering and flood control projects. Some of his notable achievements in the areas of engineering and architecture include a \$400 million road and bridge program of capital projects, a criminal justice center, a downtown jail, and a civil courts building. A major accomplishment in the flood control area includes the design and construction of the \$309 million Sims Bayou federal flood control project. Mr. Storey has worked in conjunction with the U.S. Army Corps of Engineers in accelerating federal flood control projects on Brays, Hunting, and White Oak Bayous in connection with the Water Resources Development Act of 1996. He has also implemented a locally funded flood mitigation buyout program for citizens living impossibly deep in the floodplain.

Throughout his career, Mr. Storey has devoted his time and energy to various engineering organizations. He has been a member of the American Society of Civil Engineers since 1977, and in 2000 was awarded the distinction of Life Member. At the time of his appointment to Flood Control Director, he served the Association of Consulting Municipal Engineers as President-elect. He received the Department Director of the Year Award in 1994-1995 for Outstanding Leadership of the Harris County Flood Control District from the American Federation of State and County Municipal Employees. Mr. Storey received the Park People’s 1994 Annual Leadership Award for efforts to reserve/enhance and increase Houston area parks and green spaces, and Harris county recognized that same leadership by naming a 250-acre county park as Arthur Storey Park in 1997.

In addition to his professional accomplishments, Mr. Storey participates in numerous civic, humanitarian and social service activities. He is a part of several organizations involved with Harris County infrastructure and mobility improvements. He has served Palmer Memorial Episcopal Church as a Vestryman, Senior Warden, and Junior Warden. Mr. Storey served four years as Chairperson of the Chamber of Commerce Drainage Committee and was a participant in the coordination of “Main Street 2000.” He serves on the Houston Transportation 2000 steering committee and is the 2001 Chairman of the Executive Committee of Houston TranStar.

The honoree lives in Houston with his wife, Jo. They have two children, Michael who practices General Surgery, and Linda who is an attorney.

The Houston Engineering Community is proud to bestow upon Mr. Storey the honor of “2002 Engineer of the Year” in recognition of his life long service and contributions to the engineering profession and his community.

IEEE USA Career Focus

CAREER FOCUS

Today's Engineer, IEEE-USA's monthly, career-oriented webzine, offers feature articles and short blurbs with career guidance, tips, strategies and solutions for all sectors of the profession.

This month's fare includes:

- * Does Your Resume Read More Like an Obituary?
- * Successful Consulting: Don't Give Away the Store Before the Job is Yours
- * Engineering Trends: Post-Mortem Project Analysis
- * Engineering Hall of Fame: Engineer-Physicist Robert Van de Graaff
- * World Bytes: The Mountains Are Greater Than All of Us
- * Mini-Poll Question: Apple Pie or Pumpkin Pie for Dessert?

To read TODAY'S ENGINEER, visit:

www.todaysengineer.org/careerfocus/

SUCCESSFUL CONSULTING: DON'T GIVE AWAY THE STORE BEFORE THE JOB IS YOURS

You poured hours of work into a detailed proposal for a potential client. You didn't get the job, but the solution they came up with sure looks a lot like what you had proposed. As a consultant, if you're not careful you might get caught in a something-for-nothing scenario, where a prospective client tries to take advantage of your trust or inexperience. Avoid falling into the trap by learning what to look for and what questions to ask.

www.todaysengineer.org/careerfocus/nov01te/nov01features/consulting3.html

Region 5 Conference Corporate Sponsors

The IEEE Region 5 Conference is seeking Corporate Sponsors for the upcoming event in April of 2002. If your company may be interested in financially supporting this technical conference please contact Zafar Taqvi, Ph.D. or Donald G. Dunn. For more information see the attached weblink.

www.ieee-houston.org/Reg5Conf/Default.htm

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We are also seeking sponsors of certain events breakfast, lunch, banquet, hospitality program. We will provide acknowledgement of each sponsorship in the brochure, website and recognize them formally.

Electrical Safety Workshop 2002

9th Annual Electrical Safety Workshop
“Old Hazards...New Solutions!”
Beau Rivage Hotel
Biloxi, Mississippi
January 16-18, 2002

Founded and organized by:
Petroleum and Chemical Industry Committee
Co-organized by
Power Systems Engineering Committee
and
Pulp and Paper Industry Committee
Industry Applications Society
Institute of Electrical and Electronics Engineers, Inc.

Workshop Mission

The mission of the IAS Electrical Safety Workshop is to:

- Accelerate application of breakthrough improvements in human factors, technology, and managing systems that reduce risk of electrical injuries.
- Stimulate innovation in overcoming barriers.
- Change and advance the electrical safety culture to enable sustainable improvements in prevention of electrical accidents and injuries.

Strategies

To accomplish our mission, we will

- Provide forums for sharing and disseminating ideas for preventing workplace injuries from electrical hazards.
- Maintain an intimate, interactive environment, as a unique feature of the annual forum.
- Engage multiple disciplines and professions.
- Create collaboration and synergies among various centers of excellence.

The Value of this Workshop

The IEEE IAS Electrical Safety Workshop provides attendees an interactive learning experience on the state of the art in electrical safety. Through multi-disciplinary presentations and cross-functional dialogue about the opportunities and challenges in general industry and construction electrical work, a first time participant can take away tools to aid in prioritizing their enterprise's compliance with US and IEC electrical codes and standards. Repeat participants know they can bring their tough questions to the 3-day program where experts and peers focus specifically on real world problems. You will be able to compare experience and practical applications with your counterparts in other companies and organizations. You will be interacting with experts who are leading change in codes, standards, regulations, and research aimed at preventing electrical accidents and injuries in the workplace. For those interested in continuing education credits, IEEE will award 2.0 CEU credits (20 PDH credits).

For More Information

See the attached website for complete details.

www.ieee-houston.org/Meetings/IAS_SafetyWorkshop.PDF

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

Monthly Meeting Announcement

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, H



***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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