



THE POCKET SCOPE



The Institute of Electrical and Electronics Engineers, Inc.

Volume 54, Number 7

March 2004

SCOPE NOTES

April Houston Section News

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

When: Thursday, April 22, 2004
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 4
for the Continuing Education Schedule!

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

IEEE Houston Section
P.O. Box
460443
Houston, Texas
770568014

The Chairman's Message

Gilroy Dolor



The Chairman's Message

Our next section meeting for 2004 will be Thursday, April 22nd at the Hess building. Mark French, will make a presentation entitled "Decisions for a Secure Retirement." Mark has over thirty years experience in the Financial Services, and currently is a Financial Advisor (CFM) with Merrill Lynch. With the economy at the forefront of many peoples' minds, I am sure this will be a very interesting presentation for everyone as it targets real-life concerns.

Now that we are into 2004, it is time to reflect on what was accomplished in the preceding year. Every year IEEE units and members make many significant contributions. Diane B. Collier, IEEE Region 5 Awards Committee, Chair 2004-2005, has issued a call for nominations of organizations and individuals that have made outstanding contributions to the Sections, Region 5, the IEEE, and the engineering societies during the 2003 calendar year. Region 5 wishes to recognize them for their outstanding contributions. If you know of an individual or organization that has made significant contributions, please submit a nomination. You or anyone in the Section may make one or more nominations.

The Region 5 Technical and Leadership Conference will be held in Norman, Oklahoma in April this year. Your Executive Committee will be attending this important annual event. This annual conference is a very enjoyable experience, because you find out what the happenings are in IEEE Regional and National. What I have always found very interesting at this Conference is hearing what each Section does to add value to the membership, and how our Section can take from that. We will report on the R5 Conference in next month's Pocket Scope.

Just a reminder to all of you. The Houston Section will be manning booths at the SWEE - April 2004 and OTC - May 2004 Conferences this year promoting IEEE. We have had a couple of people volunteer to help us man these booths and promote IEEE. This is a great opportunity to meet engineers from other companies and network. We still need more volunteers. If you are interested in volun-

CONTINUED ON PAGE 2

Chair Message-CONT

teering, contact one of your Executive Committee members.

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. Your active participation and feedback is most welcome and very beneficial in ensuring that the programs and content of IEEE brings the most value.

Gilroy Dolor
Houston Section Chair

April 22 Section Meeting

The next meeting of the IEEE Houston Section will be held Thursday, April 22nd, 2004.

Please RSVP via calling (713) 207-IEEE to make your reservations by Tuesday April 20th, 2004. Please include your name and company name in the voice message. You can also send an e-mail to P.J. Donner at pjdonner@ieee.org to confirm your reservation.

Time and date: 6:00 PM to 6:30 PM Social, 6:30 PM to 7:30 PM Dinner and 7:30 PM to 8:30 PM Presentation.

Topic: Decisions For A Secure Retirement

- Targeting a sustainable withdrawal rate to provide needed cash flow
- Investment strategies to maintain income stream
- Ways to make assets work harder
- The impacts of portfolio construction and the new tax laws

Speaker: Mark French, CFM

- Ten years experience on Wall Street, serving as Vice President in Equity Derivatives and Director of Risk Management at top tier

April 22 Section Meeting-Cont

Wall Street firms in New York City.

- Nearly twenty years experience in Financial Services, including Regional Banks and Mortgage Brokers in New York City.
- Has served in both enlisted and officer capacity as a paratrooper affiliated with the XVIII (18th) Airborne Corps and U.S. Army Special Operations Command.
- Native Texan
- Member of the Merrill Lynch Hispanic Financial Advisor Network and the Rainbow Employees Network

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 \$15.00 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.

IEEE Fellows Nominations

2005 IEEE Fellow Nominations

Deadline: 15 March 2004

The IEEE grade of Fellow is conferred upon a person of “outstanding and extraordinary qualifications and experience in IEEE designated fields, and who has made important individual contributions to one or more of these fields.” Many of our PES colleagues are eligible. As a professional community, we should be proactive in nominating our colleagues for this significant award.

The deadline for nominations is 15 March 2004. An electronic nomination process is being initiated this year. Nomination information and forms are available on the

Web, <<http://www.ieee.org/about/awards/fellows/fellows.htm>>.

For more information, contact R. G. Farmer, PES Fellows Committee chair, <<mailto:R.G.Farmer@ieee.org>>.

IEEE CONTINUING EDUCATION ON DEMAND

2003-2004 REGISTRATION FORM



IEEE
Houston
Section

2003-2004

Continuing
Education
On Demand



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:			\$

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.

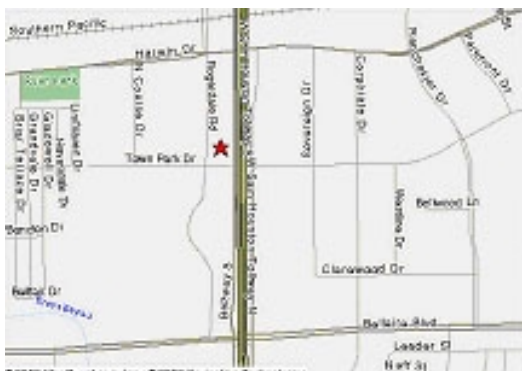
The seminars are intended to stimulate further study and discussion for learning continuance throughout the working career. Topics apply to heavy industries: oil and gas, petro-chem, cogen, pulp and paper, etc.

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. 9/10, 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]

Conference for Protective Relay Engineers

CONFERENCE FOR PROTECTIVE RELAY ENGINEERS on March 30-
April 1, 2004 at Texas A&M University in
College Station, Texas.

CONFERENCE FOR PROTECTIVE RELAY ENGINEERS
TEXAS A&M UNIVERSITY
College Station, Texas
March 30-April 1, 2004

The Planning Committee of the 57th Annual Conference for Protective Relay Engineers invites you to attend the conference at Texas A&M University on March 30-April 1, 2004. 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: \$215 (begins January 7, 2004)

After March 2, 2004: \$250

Manufacturers

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

In conjunction with the 57th Conference for Protective Relay Engineers special pre-conference offerings are available Monday, March 29, including a tutorial and manufacturer's presentations. Please see the website for more details.

This conference offers Continuing Education Credits
<<http://engineering.tamu.edu/prorelay/>>

For Registration
Ms. Sharon Loe
Conference Registration
238 Wisenbaker Engineering Research Center
Texas A&M University
3128 TAMU
College Station, TX 77843-3128
Phone: (979) 845-7912
Fax: (979)458-1139
<<mailto:s-loe@tamu.edu>>

For Information
Dr. B. Don Russell
Regents Professor
College of Engineering
Texas A&M University
College Station, TX 77843-3128
(979) 845-7912

IEEE Houston Section Scholarships 2004



IEEE - Houston Section

2004 Scholarship Selection Criteria

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, due to the success of the 2003 IEEE - Houston Section Annual Scholarship Golf Tournament, up to three (3) \$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:

- Is a 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 / 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

To apply, please complete the attached form and mail to:

IEEE - Houston Section
 Attention: Scholarship Committee
 P.O. Box 460443
 Houston, Texas 77056-8014

Deadline for submitting application form and all supporting data is July 3, 2004. Scholarships will be announced by August 31, 2004 and winner(s) will be honored at one of the IEEE - Houston Section Annual Meetings.

IEEE Houston Section Scholarships 2004



IEEE - HOUSTON SECTION SCHOLARSHIP APPLICATION

Applicant's Full Name: _____ Phone No.:

Home Address: _____ City: _____ Zip:

IEEE - Houston Section Member (Sponsor's Name): _____ Member No.

Student Status for _____ High School Sr. _____ Jr. _____ Soph. _____
Fr. _____

_____ College or University

Cumulative Collegiate GPA (Based on 4.0 max.) substantiated by copy of transcript(s):

High School GPA - for applicant entering college as freshman:

- If High School Student - please provide SAT / ACT Score:

College or University: _____ Location:

Major or anticipated major:

IEEE Student Chapter Member: _____ Yes _____ No

Attach one (1) page essay by student covering:

1. Employment Experience
2. Activities/Elected Positions
3. Personal Information

MAY 2004 OTC SHOW

CALL FOR VOLUNTEERS

The Houston Section will be manning a booth at the Offshore Technology Conference (OTC) May 3-6, 2004 at the Reliant Arena. We need volunteers to help us man this booth, promote the IEEE, and sign-up new members.

If you are interested contact PJ Donner at 713-945-7771 or Donald Dunn 281-862-5533.

APRIL 2004 SWEE

CALL FOR VOLUNTEERS

The Houston Section will be manning a booth at the Southwest Electrical Exposition (SWEE) April 6&7, 2004. We need volunteers to help us man this booth, promote the IEEE, and sign-up new members. The Houston Section will also be presenting a seminar on **“DC Power Systems application considerations for batteries, chargers, monitors etc.”** by Jack Ripley at the show.

If you are interested contact PJ Donner at 713-945-7771 or Donald Dunn 281-862-5533.

IEEE-PES Switchgear Committee Meeting

IEEE/PES Switchgear Committee Meeting
Galveston, Texas
2 May - 6 May 2004

You are invited to participate in the activities of the IEEE/PES Switchgear Committee.

Location:

The San Luis Resort Hotel is located on Galveston Island, Texas on the Gulf of Mexico. For more information on the San Luis Resort visit their web page at www.sanluisresort.com. For more information on Galveston go to www.galveston.com

The Switchgear Committee has negotiated a special room rate of \$130+taxes US for single or double occupancy. Reservations must be made by 1 April 2004 to ensure your reservation at the negotiated rate. Use of the Meeting hotel by the attendees is crucial in keeping the conference costs low. For reservations call 800-392-5937 or 409-744-1500. When reserving your rooms mention the "IEEE/PES Switchgear Committee" to ensure you get the correct rate.

Travel:

The Bush Intercontinental and the Houston Hobby airports are less than an hour drive from Galveston. Transportation from the airport by Galveston Limousine Service will cost approximately \$35 one way for Bush Intercontinental and \$30 one way for Hobby Airport. For more information and reservations visit their web page www.galvestonlimousineservice.com

Driving directions: From Houston take Interstate 45 South to Galveston. Cross Causeway Bridge, exit at 61st Street and turn right. Head south on 61st Street to Seawall Boulevard. Turn left onto Seawall Boulevard and go eight blocks. The San Luis Resort is located on the left at 53rd Street and Seawall Boulevard.

Contact Information:

For more information regarding the meeting, contact the Switchgear Committee Secretary/Treasurer:

Ted Burse
Powell Electrical Manufacturing Company
Phone: 713-948-4599
Fax: 713-948-4512
Email: tburse@ieee.org

See the Houston Section Website for more information:

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

IEEE Houston Section CED Class

NEC 2005 Changes and Cable Seminar (2kV and Below) Houston, Texas

Title: NEC 2005 Code Changes Workshop and Cable (2 kV and below) Seminar

Cost: No cost to attendees (except \$10 per person for CEU if requested)

Date: May 19 , 2004

Time:

8:30 AM- 4:30 PM - Class room training

4:30 PM- 6:30 PM- Equipment Display and Training

Location: University of Houston- Clear Lake
 Bayou Building, Room 2512
 2700 Bay Area Blvd.
 Houston, TX7058

Lunch and refreshments will be provided by Seminar sponsor Service Wire Company
CEU provided at a cost of \$10/person

8:30 AM – 12:00 noon

Subject

Welcome
 House Keeping Safety Rules
 Introduction of Attendees and Presenters
 What is SWIEUG
 Agenda Review

NEC 2005 Changes -Part 1

Break
 Exposed Run (OpenWiring) requirements & Benefits
 Mohla

VFD Cables
 Thermoset or Thermoplastic-Pro and Cons
 Comparison of XHHW-2 vs. THHN properties
 Service Wire products and locations

NEC 2005 changes- Part 2

12:45 PM- 4:30 PM

Subject

NEC 2005 changes- Part 3

Cable Installation - overview
 Break

Cable Joints
 Cable Acceptance Testing
 Solving cable problems in the field

NEC 2005 changes- Part 4

Closing

4:30 PM- 6:30 PM

Cable installation equipment
 Cable testing equipment
 Cable pulling lubricants
 Cable joints
 AEMC
 Polywater
 3M

Morning session

Presenter

Louis Weisberg
 Daleep Mohla
 Gary Morrison
 Bruce McClung and Ben McClung
 Daleep Mohla
 Bruce McClung

Daleep

Daleep Mohla

Bruce McClung
 Gary Morrison/ Daleep Mohla
 Daleep Mohla

Afternoon session

Presenter

Bruce McClung
 Ben McClung

 Bruce McClung
 Daleep Mohla
 Daleep Mohla/Bruce McClung
 Daleep Mohla
 Louis Weisberg

Refreshments and Equipment Display

Greenlee

IEEE Houston Section CED Class-Cont

BIOGRAPHICAL SKETCH

L. Bruce McClung, Principal Consultant
Electrical Safety Consulting Services, Inc.
656 Whittington Drive, Charleston, WV 25312
Telephone: 304-342-0588; Facsimile: 304-342-2505; E-Mail: mcc-escs@worldnet.att.net

L. Bruce McClung was born in Rupert, West Virginia, on 26 June 1937. He received a B.S. in Electrical Engineering from West Virginia University in 1960. Later that same year, he joined the Union Carbide Corporation. In 1997, he became the first electrical engineer to be named a Corporate Fellow at Union Carbide.

In over four decades working for the Union Carbide Corporation, Mr. McClung's work in advancing technology, standards, and work practices has dramatically improved electrical safety. Safety-enhancement technologies he helped to develop include high-resistance grounding, arc-resistant switchgear, lower toxicity insulating compounds for wire and cable, and thermal protective clothing. Widely respected as a technical leader in the application of electric power systems on an industrial scale, Mr. McClung has provided electrical technology support for the design, construction, operation and maintenance of large chemical and plastic plants.

A leader in developing electrical safety standards, L. Bruce McClung spearheaded the application of electrical technologies to achieve and maintain reliability in electrical distribution systems and to improve safety for employees exposed to electrical hazards in the workplace. His work has influenced virtually every standard related to electrical safety in the workplace, and has achieved exceptional results in reducing accidents, injuries, and fatalities.

Mr. McClung has provided leadership in the advancement of IEEE standards, having served as chair of the Industry Application Society Standards Department for 11 years, during which time he strengthened industry participation, and helped to harmonize international standards. He represents IEEE on the National Fire Protection Association's standard NFPA 70 (National Electrical Code) and also did so on NFPA 70E for 1995 and 2000 Editions (Electrical Safety Requirements for Employee Workplaces).

A Fellow of the IEEE, Mr. McClung belongs to the IEEE Industry Applications Society, the IEEE Power Engineering Society, the IEEE Dielectrics and Electrical Insulation Society, the IEEE Product Safety Engineering Society, and the IEEE Standards Association.

Mr. McClung has authored or co-authored 29 technical papers, 18 of which have made IEEE-IAS Transactions Status, while 9 earned IEEE-IAS prize paper awards. He received the IEEE Standards Medallion, the IEEE Charles Proteus Steinmetz Award, the 2000 PCIC Electrical Safety Excellence Award, the 2001 IEEE Medal for Engineering Excellence and the 2001 IAS Outstanding Achievement Award. He also received Union Carbide's Chairman's Award, and has been elected a member of West Virginia University Academy of Electrical and Computer Engineers. He is a Registered Professional Engineer in the State of West Virginia and a member of Sigma Pi Sigma, Physics Honor society.

Mr. McClung served as IEEE Distinguished Lecturer for Electrical Safety Issues during 2002-2003 and was a Member-at-Large of the IEEE-SA Board of Governors for 2002-2003. He continues to serve on the IEEE Fellows Committee, the IEEE Charles Proteus Steinmetz Committee and the IEEE Standards in Education Task Force.

IEEE Houston Section CED Class-Cont

Biography of Daleep C. Mohla

February 18, 2004

CURRENT COMPANY & YEARS OF SERVICE:

Owner, Principal Consultant DCM Electrical Consulting Services, Inc

PRIOR COMPANY INFORMATION:

Dow /Union Carbide - 26 Years

Pullman- Swindell -Consulting Engineers- 3 years .

COLLEGE/DEGREES: BSEE, West Virginia Institute Of Technology, WV

WORK BACKGROUND: Dow -Technical Support Group Member

Principal Engineer – Union Carbide Energy Systems and
Electrical Technology Group

Manual Manager of Union Carbide's Electrical Technology
Methods and Standards Program

Chairman: Union Carbide Electrical Reliability group

IEEE/PCIC CONTRIBUTIONS: Member of IEEE . IAS . IEEE Alternate representative on
National Electrical Code Panel No. 5

Member of IEEE grounding Sub- committee and
IEEE 142 Green Book , IEEE 141 Red Book

Joint Author of IEEE Prize Paper award on Risk of
Ignition due to Transition Currents in Medium
Voltage motors

Joint Author IEEE prize paper on Electrical safety
By Design

Member IEEE Standards Board

Chair IEEE NesCOM (New Standards Committee

Member IEEE

Chair- IEEE Standards Coordinating Committee 18
for NEC and NFPA standards

NFPA CONTRIBUTIONS

Member NFPA 70 - CMP 5 (grounding)

Member NFPA task Force on Cathodic Protection
Committee

Member NFPA task Force on Non-Linear Load
Committee

OTHER PROFESSIONAL MEMBERSHIPS: National Fire Protection Association (Elec-
trical Section)

LICENSES: Registered Professional Engineer in the State Of Texas, and Province of
Alberta (Canada) Inactive

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Ovidiu Crisan, University of Houston (EE).....	713-743-4432
Heidar Malki, University of Houston (ET).....	713-743-4075

The **Pocket Scope** is the newsletter of the Houston Section of the Institute of Electrical and Electronics Engineer (IEEE). The Houston Section address is: IEEE Houston Section, P.O. Box 460014, Houston, Texas 77056-8014. The **Pocket Scope** is published eight times a year (monthly, September to May, except December). It is distributed to over 3000 professionals in the electrical engineering field in the greater Houston area.

Advertising rates are listed on the IEEE Houston Section website and include publishing in The Pocket Scope, ad on the website, and within the monthly e-mail update.

IEEE members make change of address notices via the IEEE website: www.ieee.org.

Newsletter Staff

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Houston, TX 77056-8014

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