

IEEE CONTINUING EDUCATION ON DEMAND

Name: _____

Company: _____

Mailing Address: _____

City/State: _____

Zip: _____

Email: _____

Telephone: _____

Fax: _____

IEEE Membership Number: _____

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

IEEE CED SEMINARS
Andrea Nutley
TURTLE & HUGHES, INC.
6611 SUPPLY ROW
HOUSTON, TX 77011
handrea@turtle.com

Registration receipts will be available upon request **at the seminars.**

For a cancellation refund, telephone Andrea Nutley by the Friday before the seminar at:

Phone: 713-230-5203
Fax: 713-923-9009
Email: handrea@turtle.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>

2009 - 2010 REGISTRATION FORM

Seminar Title	Code	Date	Amount
Generator Controls Fundamentals	610	Oct. 13-14	\$
MV Drives	990	Oct. 27 - 28	\$
Load Tap Changers for Power Transformers	912	Nov. 10-11	\$
Basic Power System Calculations	901	Jan 19-20	\$
Symmetrical Components	230	Feb. 2-3	\$
Overcurrent Coordination for Industrial Applications	304	Feb. 16 - 17	\$
Generator Protection	625	Mar. 2 - 3	\$
Power Management & Integration	740	Mar. 16 - 17	\$
IEC System Design Considerations	820	Apr. 6 -7	\$
Safety by Design	120	Apr. 20 - 21	\$
Total Paid:			\$

Enter amount for each seminar:

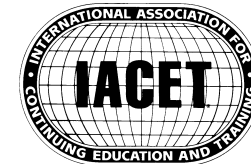
IEEE member early signup: \$ 85.00
Non-member registration: \$200.00



**IEEE
Houston
Section**

2009 - 2010

**Continuing
Education
On Demand**



IEEE CONTINUING EDUCATION ON DEMAND

The purpose of IEEE Houston Section Continuing Education on Demand is to provide modern 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, marine offshore, etc.

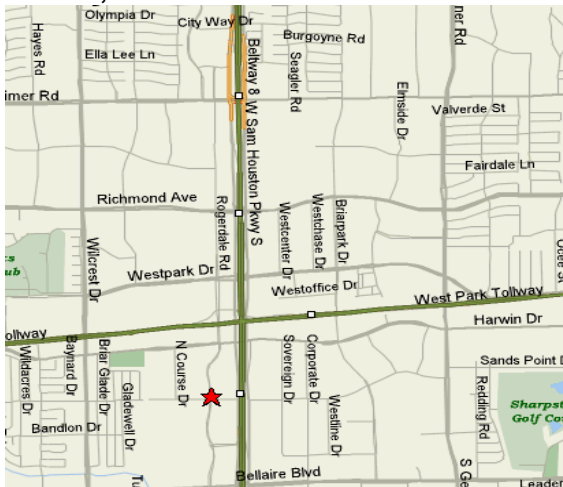
Instructors are application engineers, manufacturing specialists and expert consultants who provide a blend of diverse engineering perspectives.

The cost of each seminar is \$85.00 for IEEE members. Non-members \$200.00. **The check must be received the Friday before the seminar start date.** "Pay at the door" is discouraged due to numerous "no-shows". If you have a special situation contact Paul Barrett (713) 598-0790. Signing up the week of the seminar does not guarantee seminar presentation documents or meals.

The following 2009-2010 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 2009 - 2010

**Jacobs Engineering, Tower Two
5985 Rogerdale Road
Houston, TX. 77072**



Fall of 2009 IEEE Seminar Schedule

Generator Controls - Fundamentals
David Cutro Woodward
Oct. 13-14, 2009, 6:00-8:50 PM
Fundamentals of Generator power management, monitoring and control. Paralleling, Synchronization, Load Manual/Auto Transfer, Load Sharing and Shedding. **[0.5 CEU]**

MV Adjustable Speed Drives
Kurt LeDoux Toshiba
Oct. 27-28, 2009, 6:00-8:50 PM
MV power drive technology and architecture review, switching devices (thyristors, GTO, IGBT), PWM techniques, rectifiers and inverters. **[0.5 CEU]**

Load-Tap Changers for Power Transformers
Steve Averitt, P.E. Reinhausen
Nov 10-11, 2009, 6:00-8:50 PM
Review LTC technology, types and comparison. ANSI C57.131, application consideration and specification, manual and automatic control, regulator selection, LTC apparatus service and maintenance, transformer design (impedances, ratios etc.) for variable tap application. **[0.5 CEU]**

Spring of 2010 IEEE Seminar Schedule

Basic Power System Engineering Calculations
Robert Spiewak, P.E. Dashiell
Jan. 19-20, 2010, 6:00-8:50 PM
EE formulas, data, per unit calculations, "rule of thumb" and other information for Power System Engineer Toolbox – review with focus on industrial power systems. Calculator and EE degree recommended. **[0.5 CEU]**

Symmetrical Components
Dr. Kurt Ederhoff, P.E. VI Engineering, Inc.
Feb. 2-3, 2010 6:00-8:50PM
Reviews Fortescue theory of unbalanced system analysis, asymmetric fault analysis, voltage unbalance issues, application concerns and examples. **[0.5 CEU]**

Over-Current Coordination for Industrial Applications
Doug Durand, P.E. KBR
Dominik Pieniazek, P.E.
Feb. 16-17, 2010, 6:00-8:50 PM
Over-current coordination objectives & requirements, time current curves, coordination time interval, radial and loop systems, software & studies. **[0.5 CEU]**

Generator Protection
Chuck Mozina, P.E. Beckwith
March 2 -3, 2010, 6:00-8:50 PM
Reviews generator protection goals & strategies, generator constants definition and data sheet interpretation, generator-engine operation and utility interaction, system characteristics. **[0.5 CEU]**

Power Management and Integration
Shelly DeGrate Powell Industries
Al Pilcher PowelTech / Powell Electric
Tony Zhao Powell Industries
March 16-17, 2010, 6:00-8:50 PM
Monitoring and control system architecture, design options, modes of communication, equipment and installation relative cost; multifunctional microprocessor based systems, monitoring and protection systems considerations, objectives & effective design strategies for industrial applications. **[0.5 CEU]**

IEC System Design Considerations
Terry Hazel, P.E. Schneider electric
April 6-7, 2010, 6:00-8:50 PM
Reviews IEC guidelines and standards for electrical distribution equipment and system design considerations. **[0.5 CEU]**

Safety by Design
Jim Bowen, P.E. Powell Industries
April 20-21, 2010, 6:00-8:50 PM
Application considerations and strategies for the industrial system engineering and design to eliminate risk (health and personal) issues through the system design **[0.5 CEU]**