Upcoming Meetings

EXCOM Meeting
Tuesday, September 01, 2015  5:30PM at TECO Plaza
Register online at http://time2meet.com/fwcs-excom/index.html
Open to all FWCS Members

Cognitive Radar inspired by The Brain: Theory and Applications”
IEEE Distinguished Lecturer: Dr. Simon Haykin
September 21, 2015
Details on page 8

Arc Flash - Updates and Training on NFPA 70E-2015, Electrical Safety in the Workplace.
September 25, 2015
Details on page 4

MILCOM 2015
October 26-28
Details on page 3

IEEE Computer Society Conference - Local Computer Networks (LCN)
October 26-29
Details on page 9

IN THIS SIGNAL:

Page 2
Florida Professional Engineer Continuing Education Requirements Change

Page 3
MILCOM 2015
Arc Flash - Updates and Training on NFPA 70E-2015, Electrical Safety in the Workplace.

Page 5
IEEE Senior Membership

Page 6
Beckwith Electric Advertisement

Page 7
IEEE-USA E-BOOKS is offering a complimentary copy of “Work-Life Balance, Book 2”

Page 8
IEEE Aerospace and Electronic Systems Society - Cognitive Radar inspired by The Brain: Theory and Applications

Page 9
IEEE Computer Society Conference - Local Computer Networks (LCN)

Page 10
Advertising Section
Calendar
PE Corner

Art Nordlinger, PE, Senior Member

Florida Professional Engineer Continuing Education Requirements Change

As I discussed in my last installment, all professional engineers licensed in Florida will be required to obtain a total of eighteen (18) continuing education (CE) course hours in order to renew their licenses. These requirements are officially in effect for the 2015-2017 biennial renewal. The significantly increased CE requirement will make it much more difficult to wait until the last minute to complete your course hours; a practice for many of us in past years.

To avoid the last minute rush, start planning your continuing education now. There are lots of opportunities to earn CE hours. IEEE, as a provider of technical CE hours, offers several seminars a year where CE hours are awarded. The member price for these seminars is often well below the cost of courses offered by commercial vendors. Other opportunities to earn CE hours include publishing technical papers and filing patents for those to whom this might apply.

How about sharing your expertise in your field with other engineers? The first time you teach a course that qualifies for CE hours, the teacher gets double the number of hours! If you are interested in teaching a technical seminar through IEEE, please contact me or Serge Beauzile for details.

The FBPE made several other changes to the rules surrounding continuing education. Prior to the current rule change, CE hours has to be taken in a PE’s Area of Practice for those hours to count toward license renewal. That has changed in that a PE many now have to be taken in a PE’s Area of Practice for those hours to count toward license renewal. That has changed in that a PE many now have to be taken in a PE’s Area of Practice for those hours to count toward license renewal. That has changed in that a PE many now have to be taken in a PE’s Area of Practice for those hours to count toward license renewal. That has changed in that a PE may now count any course from a Florida accredited provider toward license renewal. The member price for these seminars is often well below the cost of courses offered by commercial vendors. Other opportunities to earn CE hours include publishing technical papers and filing patents for those to whom this might apply.

Refer to F.S. 471.017(3) and Chapter 61G15-22 for a full description of the changes related to continuing education requirements for licensed engineers and to the FBPE website: https://www.fbpe.org/index.php/continuing-education/continuing-education-ce-requirements
MILCOM 2015

October 26 – 28

The Premier International Conference for
Military Communications

MILCOM 2015 celebrates the 34th anniversary of the premier international conference for military communications. “Leveraging Technology – The Joint Imperative” gathers the leading minds of government, military, industry and academia in an interactive forum to further explore and define the benefits that joint-level collaboration bring to current and future communication challenges. The annual conference will take place at the Tampa Convention Center. Leaders from around the world will address the critical role communications plays in military readiness and operations. MILCOM offers industry the opportunity to discuss communications technologies and services with decision makers from all branches of the armed forces, the Department of Defense, federal agencies and multinational forces.

In the MILCOM tradition, the conference will feature an outstanding series of technical presentations, discussions and tutorials, as well as nearly 30,000 square feet of industry exhibits all under one roof. It will include more than 300 unclassified and restricted technical presentations, tutorials and panel discussions led by experts in defense communications. Topics will include the spectrum of command, control, communications, computers, intelligence, surveillance and reconnaissance (C4ISR) technologies and capabilities that address 21st century communications challenges related to national defense, homeland security, disaster response and interoperability. Continuing education credits will be available to all attendees.

For more information please visit:
http://events.jspargo.com/milcom15/public/enter.aspx
Arc Flash - Updates and Training on NFPA 70E-2015
Electrical Safety in the Workplace.

Date: Friday, September 25, 2015
Time: Registration & Breakfast: 8:00AM-8:30AM
Seminar: 8:30AM – 3:00PM
Speaker: John Leedy, P.E., Owner, LEEDY ELECTRIC EAST, LLC
Location: Seminole Electric Cooperative, 16313 North Dale Mabry, Tampa, Fl. 33618

Cost: $150 Members, $300 Non-Members, $100 Students. Includes Breakfast, Lunch, & seminar text, “NFPA 70E – 2015 Standard for Electrical Safety in the Workplace” (a $65 value) is included with this seminar.

PDH Credits: Professional development hours will be awarded. Be sure to enter your name and PE number on the signup website as it appears on your license. Florida exempt provider #00015.

Reservations: Online at: http://time2meet.com/fwcs-pes4/index.html (Select Reservations)

Make checks payable to IEEE FWCS and mail a check in advance to IEEE PE/IA Chapter Treasurer:
PES/IAS Chapter 2593 Forest Run Court
Clearwater, FL 33761-3716
Space limited to the first 50 registrants!!!
Questions: Tom Blair at 813-228-1111, ext. 34407 or thblair@tecoenergy.com

Seminar Text A $65 Value is included with this Seminar.

This training session will be devoted to the subject of Electrical Safety in the workplace as it relates to the latest edition of the NFPA 70E-2015 and the updates contained therein. Topics such as “how does electrical safety and the NFPA-70E apply to the workplace” and “what is required to be compliant with the standard” will be covered.

A copy of the standard, NFPA-70E-2015 Standard for Electrical Safety in the Workplace is included in the training costs.

IEEE Senior Membership

Senior member is the highest grade for which IEEE members can apply. IEEE members can self-nominate, or be nominated, for Senior member grade.

To be eligible for application or nomination, candidates must:

- be engineers, scientists, educators, technical executives, or originators in IEEE-designated fields;
- have experience reflecting professional maturity;
- have been in professional practice for at least ten years (with some credit for certain degrees);
- show significant performance over a period of at least five of their years in professional practice.

Prospective members who would like to apply directly for Senior member grade should join IEEE and then submit the Senior member Application Form as an IEEE member number is required on the senior member application. There is no additional fee to apply for senior member grade.

To start your IEEE Senior Membership Application form today, visit ieee.org, select “Membership & Services” tab at the top, then select “Member Grade Elevation” on the left. You will need an IEEE account to start the application. There is no cost to set up an IEEE account and, if you have not set up an IEEE account, at the top of the home page, select “Create Account” to set up your account today. If you are in need of references for your senior membership application, please stop by one of our monthly executive committee meetings and we will be glad to help identify some references. We meet the first Tuesday of every month and you can find specific info in this newsletter.

Benefits of Senior Membership

- **Recognition:** The professional recognition of your peers for technical and professional excellence.
- **Senior member plaque:** Since January 1999, all newly elevated Senior members have received an engraved Senior Member plaque to be proudly displayed for colleagues, clients and employers to see. The plaque, an attractive fine wood with bronze engraving, is sent within six to eight weeks after elevation.
- **US$25 coupon:** IEEE will recognize all newly elevated Senior members with a coupon worth up to US$25. This coupon can be used to join one new IEEE society. The coupon expires on 31 December of the year in which it is received.
- **Letter of commendation:** A letter of commendation will be sent to your employer on the achievement of Senior member grade (upon the request of the newly elected Senior member).
- **Announcements:** Announcement of elevation can be made in section/society and/or local newsletters, newspapers and notices.
- **Leadership Eligibility:** Senior members are eligible to hold executive IEEE volunteer positions.
- **Ability to refer other candidates:** Senior members can serve as a reference for other applicants for senior membership.
- **Review panel:** Senior members are invited to be on the panel to review senior member applications.
- **US$25 referral coupon:** Newly elevated Senior members are encouraged to find the next innovators of tomorrow and invite them to join IEEE. Invite them to join and the new IEEE member will receive $25 off their first year of membership.
IMMEDIATE CAREER OPPORTUNITY

Application Engineer – Protective Relays

You are a power electrical technician or field engineer with an electric utility, heavy industrial or switchgear company. You are ready for the challenge of interfacing with the Customers of a leading manufacturer of innovative high quality products, technical services and solutions for the power electrical industry. You want to grow from task-based to actively contributing to the success of a top-shelf technical support group.

We are looking for a dynamic individual with strong written and verbal communications skills. They will be responsible for the application of the company's products and systems related to protective relaying of distribution feeders (including recloser controls), transformers, generators, and distributed energy resource interconnection. This individual will provide technical services to customers in support of the application, use, and maintenance of the above products and systems.

Familiarity with protection scheme documentation: 1-lines, 3-lines, logics and elementary diagrams. Ability to calculate protection settings, use Industry standard secondary injection test equipment and knowledge of digital communications as applied in Utilities and Industrials (DNP, IEC-61850, MODBUS) is desired. BSEE with 5+ years of relevant experience or AAS and 10+ years of relevant experience is required.

Please contact Human Resources Department at jobs@beckwithelectric.com.

Beckwith Electric, founded in 1967, is a premier provider of innovative and high quality products, technical services and solutions that meet the needs of customers involved in the production, transmission, and distribution of electric power.

Products Provided and Markets Served

Beckwith Electric's products include tapchanger, regulator, and capacitor controls, protective relays, custom services and solutions, and equipment for synchronizing and motor bus transfer. Customers include electric utilities, large industrial companies, original equipment manufacturers and owners of alternative sources of energy.

For additional company or product information, please browse our website or contact us at (727) 544-2326.
IEEE-USA E-BOOKS is offering a complimentary copy of “Work-Life Balance, Book 2” to members in August.

Author Peggy Hutcheson explores work-life balance in light of career stages -- young professional, mid-career and late career -- and explores a strategy to help achieve balance in each.

For example, regarding young professionals, she writes that, “though balance between the time and energy spent on developing a career, and time and energy to manage an active social and family life is difficult, early careerists can often rely on higher levels of energy to help manage their lives.” She points out that developing healthy eating habits and doing regular exercise will have important positive consequences later, in the lives of young professionals.

“What remember that work-life balance is the state of control, achievement and satisfaction in life,” Hutcheson writes. She suggests being brutally honest about your time and how you spend it, and recommends keeping a diary. Hutcheson believes doing so will help you uncover things that may be preventing you from feeling successful in your accomplishments.

**HOW TO GET YOUR FREE E-BOOK**

*From 1 August to 15 September*, you can get your free e-book to download by going to [http://shop.ieeeusa.org/usashop/product/careers/76735](http://shop.ieeeusa.org/usashop/product/careers/76735). Log in with your IEEE Web account, add the book to your cart and use promo code AUGFREE at checkout.

**SEPTEMBER E-BOOK**


This free e-book looks at the characteristics of several types of written products, such as reports, specifications and instructions -- documents with the primary mission of informing and explaining. It also explores requests and proposals -- documents with the primary goal of persuasion.

IEEE-USA E-BOOKS seeks authors to write an individual e-book, or an e-book series, on career guidance and development topics. If you have an idea you think will benefit members in a particular area of expertise, please email your proposal to IEEE-USA Publishing Manager Georgia C. Stelluto at g.stelluto@ieee.org and IEEE-USA E-Book Chair Gus Gaynor at g.gaynor@ieee.org.

IEEE-USA serves the public good and promotes the careers and public policy interests of nearly 200,000 engineering, computing and technology professionals who are U.S. members of IEEE.
“Cognitive Radar inspired by The Brain: Theory and Applications”

IEEE Distinguished Lecturer: Dr. Simon Haykin

Tampa, FL – September 21, 2015 at 6:00 pm

The IEEE Aerospace and Electronic Systems Society proudly presents Dr. Simon Haykin, a Distinguished Lecturer for the global AESS society. Dr. Haykin will travel from McMaster University in Ontario, Canada to present his research over the past year on Cognitive Radar, a subset of the Cognitive Dynamic System discipline he has developed. The Cognitive Radar in Dr. Haykin’s research closely mimics the visual brain. Practical attributes of Cognitive Radar from an engineering perspective will be discussed.

Dr. Haykin has dedicated his research over the past year to Cognitive Dynamic Systems, including Cognitive Radar and Cognitive Control. During this event, he will concentrate on the Cognitive Radar portion that closely mimics the visual brain. Specifically, the following will be covered:

- The four principles of cognition: perception-action cycle, memory, attention and intelligence, each one of which will be carefully defined.

- Structural composition of Cognitive Radar that will build on these principles, and the role of each principle will be addressed.

- To demonstrate the information-processing power of the Cognitive Radar and its novel control capability, an air traffic control example with deep-corner turn for the experiment will be used. The unique capability of Cognitive Radar will thus be demonstrated using computer simulations.

- With target tracking as the objective, the important properties of the new Cubature Kalman Filter, developed in Dr. Haykin's lab, will be highlighted.

Please read more about the details of this amazing opportunity and register early for this space-limited event at: https://meetings.vtools.ieee.org/m/35261.

Food and beverage will be provided. Please contact Jim Cavanaugh with any questions: James.A.Cavanaugh@ieee.org

Cost is $5 for Student and Senior IEEE members, $10 for IEEE members and $20 for non-members.
IEEE Computer Society Conference - Local Computer Networks (LCN)

Sheraton Sand Key Resort -Clearwater Beach, FL - October 26-29, 2015

The IEEE LCN conference is the premier conference on theoretical and practical aspects of computer networking. LCN is highly interactive, enabling an effective interchange of results and ideas among researchers, users, and product developers. Major developments from high-speed networks to the global Internet to specialized sensor networks have been reported at past LCNs.

Conference registration is available via the IEEE online conference registration Web site (http://www.ieee.org/Attende.html). Keynote presentations will be delivered by Dr. Robert Metcalfe of University of Texas at Austin and by Professor Muriel Médard of MIT.

Please visit http://www.ieeelec.org/index.html for more information about the 40th Anniversary of this conference.

Advertising Section

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**September 2015 Calendar of Events (For more information see P. 1) in this Signal...**

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