



**The Florida West Coast
Section of the IEEE**
Serving over 2,300 members in Charlotte,
Citrus, DeSoto, Hardee, Hernando,
Hillsborough, Lee, Manatee, Pasco, Pinellas,
Polk, and Sarasota Counties



**THE
SUNCOAST
SIGNAL**

THE INSTITUTE OF ELECTRICAL AND ELECTRONICS ENGINEERS, INC.

Volume 60— No. 2 <http://www.ieee.org/fwcs> **February 2015**



Inside This Signal...

Page 2

**PE Renewal Article*

**Change in Continuous Education requirements*

Page 3

** IEEE USA Free e-Book*

Page 4

Power Transformer Overview

Page 5

** NFPA 70E-2015 Electrical Safety Seminar*

Page 6

**2015 Engineers Week Banquet*

Page 7

Sponsor/Vendor Info for TBEWB

Page 8

**Tour DeSoto Next Generation Solar*

Page 9

** IEEE RAS Meeting*

**Advertising Section*

Page 10

**Calendar*

This Month's Meetings

***Tuesday, February 3: EXCOM Meeting, 5:30PM at TECO Plaza
Register online at <http://time2meet.com/fwcs-excom/index.html>***

Open to all FWCS Members

PE Renewal Article

***Change in Continuous Education
[Details on page 2](#)***

IEEE-USA Free e-Book

[Details on page 3](#)

Power Transformer Overview

[Details on page 4](#)

NFPA 70E- 2015 Electrical Safety Seminar

[Details on page 5](#)

2015 Tampa Bay Engineers Week Banquet

[Details on page 6](#)

Sponsor/Vendor Information for 2015 Tampa Bay Engineers Week Banquet

[Details on page 7](#)

Tour DeSoto Next Generation Solar

[Details on Page 8](#)

IEEE RAS Meeting

[Details on page 9](#)

Calendar

[Details on page 10](#)

2014 IEEE EXECUTIVE COMMITTEE

FLORIDA WEST COAST SECTION

CHAIR: Claude Pitts cpitts7@tampabay.rr.com

VICE CHAIR: Chris Lambrecht, chris.lambrecht@ieee.org

SECRETARY: Sean Denny, venner20@ieee.org, 727-678-0183

TREASURER: Jim Howard, Lakeland Electric (863)834-6585
jhoward@ieee.org

SIGNAL EDITOR: Donna Howard, Serge Beauzile
Phone (813) 207-7966 dhoward@frcc.com

Serge.beauzile@ieee.org

AWARDS & BYLAWS : Richard Beatie, PE,
r.beatie@ieee.org

MEMBERSHIP: Jim Howard, Lakeland Electric (863)834-6585
jhoward@ieee.org

TEACHER IN-SERVICE: Sean Denny: Venner20@ieee.org
(727) 678-0183

PES/IAS CHAPTER: Serge Beauzile, Lakeland Electric,
(863) 834-6511 serge.beauzile@ieee.org

MTT/AP/ED CHAPTER: Jing Wang jingw@usf.edu

COMP/AESS CHAPTER: James S. Lumia (813) 832-3501, jlumia@ieee.org

EMBS: Engineering in Medicine & Biology: John West: 727-743-2267,
john.west@ieee.org

ROBOTICS and AUTOMATION SOCIETY, Sean Denny, Venner20@ieee.org

SP/COMM CHAPTER: Chris Lambrecht

chris.lambrecht@ieee.org

WIE: Women in Engineering: Valerie Tur, (813) 334-2317, VLT4@cornell.edu

LIFE MEMBER AFFINITY GROUP: Glen Cock

gcock@tampabay.rr.com, 813-689-4765

GOLD: Victor, Basantes

PACE: Jim Anderson , (813) 425-2467
jim.anderson@ieee.org

STUDENT BRANCH CO-ADVISORS:
Dr. Paul Schnitzler, USF PS&A (813) 974-5584 pauls@eng.usf.edu
Dr. Andrew Hoff, hoff@usf.edu

STUDENT BRANCH MENTOR: Jim Howard, Lakeland Electric (863) 834-6585 jhoward@ieee.org (H) (813) 876-1748

STUDENT BRANCHES:

T.J Ross, @mail.usf.edu

CONFERENCES: Richard Beatie, PE,

r.beatie@ieee.org

WEB PAGE: <http://www.ieee.org/fwcs>

WEB MASTER: Claude Pitts, III, cpitts7@tampabay.rr.com

THE SUNCOAST SIGNAL is published monthly by the Florida West Coast Section (FWCS) of the Institute of Electrical and Electronics Engineers, Inc. (IEEE). THE SUNCOAST SIGNAL is sent each month to members of the IEEE on Florida's West Coast. Annual subscription is included in the IEEE membership dues.

The opinions expressed, as well as the technical accuracy of authors, advertisers or speakers published in this newsletter are those of the individual authors, advertisers, and speakers. Therefore, no endorsement by the IEEE, its officers, or its members is made or implied.

All material for THE SUNCOAST SIGNAL is due in electronic form by **1st Sunday after the 1st Tuesday** of the month preceding the issue month.

Address all correspondence to:

Donna Howard
3133 W Paris Street
Tampa, FL 33614-5964
Home Phone 813-876-1748
E-MAIL: dhoward@frcc.com
The Signal, Copyright 2014



PE Renewal is Almost Upon Us Below is the Last Opportunities to Get Your 4 Technical Hours Before the February 2015 Deadline

Brought to you by YOUR IEEE PE/IA Chapter

Thursday, February 26th – *Power Transformer Overview* – Don Seay General Electric - Location: Seminole Electric

Registration: 8:00 A.M. Seminar: 8:30 A.M. - 2:30 P.M.

Also note that the PE Requirements change for future years. Refer to the article included below.

Changes to Continuing Education Requirement For your P.E. License

Licensed professional engineers are **currently** required to obtain eight (8) continuing education (CE) course hours every two years in order to renew their licenses. Of the eight hours, four hours are required to be on the laws and rules of professional engineers.

Effective March 1, 2015, HB713 requires a total of **18 continuing education course hours** in order for licensed professional engineers to renew their licenses. Of the 18 hours, one must be related to the laws and rules of professional engineers, one must relate to professional ethics, and four must relate to the licensee's area of practice. The remaining hours may correlate to any topic pertinent to the practice of engineering. Four hours of the continuing education course hours may be obtained by being an officer for a Board-recognized professional or technical engineering society. The required hours relating to law, rules and ethics may also be earned by a PE serving as a member of the Legislature or as an elected state or local official. Since the portion of the Bill relating to CE requirements does not take effect until March 1, 2015, **the new CE requirements will not apply until the 2015-2017 biennial renewal**

<p>Wayne Ellis President</p>		<p>Steve Antman Sales Engineer Cell: 813-523-3161</p>
<p>Electrical Engineering Enterprises, Inc. is the company to meet all of your electrical needs. Electrical Engineering is a multi-faceted electrical repair/testing company. Our services are available 24 hours a day seven days a week.</p>		
<p>5316 E. Henry Ave Tampa, FL 33610 Phone (813)740-9601 Fax: (813)740-9360</p>		

Blue Elephant Consulting

Unforgettable communication skills that will set your ideas free...



Dr. Jim Anderson jim@BlueElephantConsulting.com
President Phone: 813.418.6970
www.BlueElephantConsulting.com

P.O. Box 341734, Tampa, Florida 33694-1734



EMConsulting

Interference eliminated

EMC-EMI-E³ Design & Troubleshooting



Stu Benner
INARTE Certified EMC Engineer

your EMC WIZARD

- Finds & solves your EMC problems
- Supports all project phases
- Designs / reviews designs
- Writes / reviews documentation
- Is LOCAL to the Tampa Bay area
- Initial meeting always FREE

visit emcwizard.com for more

phone: 301.730.2144
stu@emcwizard.com

PO Box 51, Odessa, FL 33556-0051

IEEE USA Free e-Book

For the month of February, IEEE-USA E-Books will offer **Work-Life Balance – Book 1** by Peggy G. Hutcheson.

In **Work-Life Balance – Book 1**, Hutcheson guides the readers through a “Work-Life Balance Check-up” and helps them to understand the issues and impact of being out of balance. Work-life balance is a state of control, achievement and satisfaction in your life. It also means that you align your choices with those things that are important to you in life, so that you are able to enjoy a sense of satisfaction from the choices you have made. How balanced are You?

Work-Life Balance Book 1 can be downloaded at <http://www.ieeeusa.org/communications/ebooks/files/feb15/kmvwoi8a/worl-Life Balance-1.pdf> for free to IEEE members. (\$9.99 for non-members.)

Call for Authors

IEEE-USA E-books seek authors to write an e-book or e-book series on career guidance and development topics. If you have an idea that 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 Communications Committee Chair Gus Gaynor at g.gaynor@ieee.org.

IEEE-USA serves the public good and promotes the careers and public policy interests of more than 200,000 engineering, computing and technology professionals who are U.S. members of IEEE.

Web: www.ieeeusa.org
Facebook: www.facebook.com/ieeeusa
Twitter: www.twitter.com/ieeeusa
Join IEEE: www.ieee.org/join

Contact: Sharon C. Richardson, Coordinator
IEEE-USA Communications & Publishing
Phone: [1 202 530 8363](tel:12025308363)
E-mail: s.richardson@ieee.org



Power Transformer Overview

Last Chance to Earn Your PDH's For this Renewing Period

Date: Thursday, February 26, 2015

Time: Registration: 8:00 A.M. Seminar: 8:30 A.M. - 2:30 P.M.

Speaker: Don Seay, P.E., General Electric

Location: Seminole Electric Cooperative
16313 North Dale Mabry Hwy. – Tampa, Florida

Cost: \$100 Members, \$200 Non-Members, \$25 IEEE Student Members

PDH Credits: 4 professional development hours will be awarded. Be sure to provide your name as it appears on your Florida license and your license number to insure proper credit. Florida Provider #0003849 I

Reservations: Online at: <http://time1meet.com/fwcs-meetings/> (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 40 registrants!!!

Contact: Jim Howard at 863-834-6511 or james.howard@lakelandelectric.com

Power Transformer Overview

This course covers various topics pertaining to power transformers including:

- Basic concepts, definitions, ratings, and components
- General design concepts & construction phases
- Specification considerations, including factors to consider during planning, application, engineering; loss evaluation; unusual conditions
- Factors typically considered during customer-manufacturer joint design reviews
- Factory acceptance test description
- Metrics used to measure quality assurance; procedures for ensuring acceptability
- Procedures/steps performed after receiving transformer prior to installation

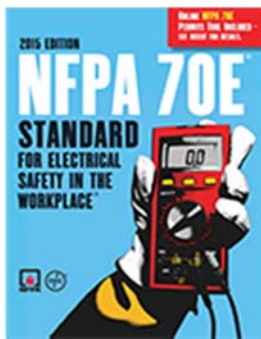
Don Seay is a registered Professional Engineer in NC, serving as technical application engineer with General Electric since 2010. He has 27 years of electrical utility experience in various T&D engineering roles including Southern Company, CLECO, Florida Power & Light, and Progress Energy. He also has 5 years of T&D consulting experience with KEMA & Doble Engineering. His areas of expertise include T&D transformers, circuit breakers, voltage regulators, and underground cables covering all aspects including design, manufacture, specification, application, operation and maintenance. Don holds both Bachelor of Electrical Engineering and Master of Electrical Engineering degrees from Auburn University.



**Updates and Training on NFPA 70E-2015
Electrical Safety in the Workplace.**

- Date:** Friday, March 27, 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)
- 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.
- RSVP:** Online at: <http://www.ewh.ieee.org/r3/floridawc/> (Select Reservations)
Make checks payable to: IEEE FWCS
Send checks to: Ralph Painter, IEEE FWCS Treasurer
648 Timber Pond Drive
Brandon, FL 33510-2937
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

Your local IEEE PES/IAS Chapter is offering this 6 hour training on **Electrical Safety in the Workplace** by John Leedy, Owner of Leedy Electric East.

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.

John Leedy graduated from University of Florida in 1982 with a Bachelor of Science in Electrical Engineering with an emphasis in Power Delivery. John worked for Dillard Smith Construction as a protective relay technician. He joined General Electric as a Field Engineer, specializing in Power Substations and DC Electronic Drive Systems in Paper Mills as well as Project Management of Paper Machine Drive System retrofits and substation construction and commissioning. John left GE to join the family business, Leedy Electric Corp, in 1987. He earned his PE license for the State of Florida in 1992 and the State of Georgia in 2013 and received his Masters in Engineering Management from the USF in 2002. John has been working with NFPA 70E regulation since 2002, performing hundreds of Arc Flash Risk assessments throughout the SE United States, training management and employees on the standard. Leedy Electric is located in Mulberry Florida, and has been in business since 1975, specializing in Engineering and Electrical Service for the commercial and industrial industries.

SAVE THE DATE

Tampa Bay Engineers Week Banquet February 27, 2015 - <http://tbewb.org/>

Keynote Speaker:

Story Musgrave

Story was an NASA astronaut for over 30 years and flew on six spaceflights. He performed the first shuttle spacewalk on Challenger's first flight, was a pilot on an astronomy mission, conducted two classified DOD missions, was the lead spacewalker on the Hubble Telescope repair mission and on his last flight, he operated an electronic chip manufacturing satellite on Columbia.



Join us to what will surely be an entertaining and inspirational presentation from one of NASA's greatest astronauts.

This Engineers Week, the engineering societies of the Tampa Bay area have put together the fifth annual Tampa Bay Engineers Week Banquet on Friday, February 27, 2015, at the:

[A La Carte Event Pavilion \(4050 Dana Shores drive, Tampa, Florida, 33634\)](#)

This premier event brings together local leaders and engineering professionals to recognize the outstanding achievements of Engineers, Science Teachers, Math Teachers, and Students in our community.

Additionally, awards will be presented to outstanding engineers in each discipline, as well as local engineering students excelling in their engineering related studies and Young Professionals. The banquet also features the Lignell Awards. These awards, named after a former Chairman for the Institute of Electrical and Electronics Engineers (IEEE), are given to local High School educators who are performing outstanding work in the instruction of the STEM topics (science, technology, engineering and math). The organizers of the event recognize the important role these individuals play in encouraging students to pursue technological degrees in college.

The banquet is a combination of efforts by all the Engineering Societies of West Central Florida This event brings together professionals in all fields from all around Tampa and Florida's west coast.

(continued)

VENDOR/SPONSOR INFORMATION FOR TAMPA BAY ENGINEERS WEEK BANQUET

Platinum Level Sponsorship - \$1250 Donation

- Company logo displayed on signage at the event.
- Receives up to 10 tickets to the awards banquet
- Presents the Lignell Award.
- Receives recognition at Platinum Sponsor level on event slideshow & program.
- Receives recognition and link to website on the TBEWB website. Information about company and special acknowledgement will be made on the website.
- Display Table in Reception Area

Gold Level Sponsorship - \$900

- Company logo displayed on signage at the event.
- Receives up to 5 tickets to the awards banquet.
- Has company logo displayed at Gold Sponsor level on event slideshow & program.
- Receives recognition and link to website on the TBEWB website.
- Display Table in Reception Area, (if space available)

Silver Level Sponsorship - \$600

- Company logo displayed on signage at the event.
- Receives up to 2 tickets to the awards banquet.
- Has company logo displayed at Silver Sponsor level on event slideshow & program
- Receives recognition and link to website on the TBEWB website

Vendor Level Sponsorship - \$400

- Receives display table to present company products during the Pre-Dinner Social.
- Receives recognition at Vendor level in program and on the TBEWB website
- Receives up to 2 tickets to the awards banquet

Donor Level Sponsorship - \$200 or More

- Donor Level individual names will receive recognition at Donor Level on event slideshow, TBEWB website and signage at the event
- All Donations are greatly appreciated
- All individual donors will be listed in the program unless requested

Friends Level Sponsorship - \$50 or More

- Friends Level individual names will receive recognition at Friends Level on event slideshow and will be listed in the program unless otherwise requested.

Speaker Sponsor - \$1,500

- Speaker will join you at your Company Table for the event!
- Company logo displayed on signage at the event.
- Receives up to 10 tickets to the banquet.
- Company representative may participate in Lignell Award presentations.
- Recognized as Speaker Sponsor level in program and event slideshow (5 slides).
- Company Logo and link to website on the TBEWB website. Display Table in reception area.

IEEE-USA Merchandise, yours
FREE when you refer a
colleague who joins IEEE.

IEEE★USA

[LEARN MORE](#)

IEEE



- Date:** Tuesday, March 10, 2015
- Time:** Registration: 11:00 A.M. Presentation & Tour: 11:30 A.M. - 2:00 P.M. (Includes lunch)
- Cost:** Student with ID \$10, IEEE members \$10, \$20 Non-members
- Speaker:** FP&L Professional presenting proceeded by their observation deck to view entire site.
- Location:** FP&L DeSoto Next Generation Solar Center, 4051 NE Karson St., Arcadia FL 34266
- RSVP:** Online at: <http://time2meet.com/fwcs-pes2/index.html>
- 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 25 registrants!!**
- Questions:** Steve Antman at 813-523-3161 or steveantman@gmail.com

At Florida's first-ever solar energy center, 90,500 solar panels move into position to catch the sun's rays. The largest of its kind in the nation when it opened in 2009, this facility continues to serve customers using photovoltaic, or "PV," technology – a process for converting sunshine directly into electricity for our customers. It works for you during the day, when the sun is not hiding behind clouds, producing about 52,000 MWh of electricity annually. That's enough to power about 3,000 homes. The emissions-free center is estimated to help us eliminate nearly 37,000 metric tons of greenhouse gases each year and thousands of barrels of oil, making it a clean and energy independent way to bring you electricity

Come see the magic!

Coming from the north on US 17 they are about 1 mile south of the Hardee/DeSoto County line. When you turn onto Karson street, go to the end of the road and fork to the right, come in through the gate and follow the road to a second gate, toward the building. (It's easy and you won't miss it). There is no signage on US 17, so you do have to look for Karson St.

When you pull up to the gate, press the call button and they will be able to remotely open the gate.

Pictures will be allowed and for safety reasons, **please wear closed toed shoes.**



IEEE RAS Meeting

You are invited to the Monthly Meeting of the IEEE Florida West Coast Chapter of the (RAS) Robotics and Automation Society. It is every third Tuesday at 6:30pm at the location below under normal conditions.

Location: DeVry University at 5540 W. Executive Drive, Tampa, FL, 33609

Room: 210

Date: February 17 & March 17, 2015

Time: 6:30pm to 8:30pm

TOPICS: HOMEBREW RASPBERRY PI BY WILLIAM (BILL) WAGGENER over two meetings in February and March.







I will give an introductory overview with examples and I'll donate two Raspberry Pi kits to the USF students, challenging them to come back in March with one or more projects to demonstrate.

Bill Waggener, IEEE Member

Please join us for exciting evenings of discussions on local robotics and how we can help schools throughout the Florida West Coast

Submitted by Sean Denny

Advertising Section

 <p>NFPA 70E - ARC FLASH HAZARD ANALYSIS</p> <p>SERVICES INCLUDE:</p> <ul style="list-style-type: none"> ◆ SYSTEM SURVEYS ◆ DATA GATHERING ◆ DATA ENTRY ◆ SYSTEM ANALYSIS ◆ REPORTS & LABELING ◆ TRAINING  <p>(863) 425-2698 WWW.LEEDYELECTRIC.COM</p>	<p><i>Blue Elephant Consulting</i></p> <p><i>Unforgettable communication skills that will set your ideas free...</i></p>  <p>Dr. Jim Anderson jim@BlueElephantConsulting.com President Phone: 813.418.6970 www.BlueElephantConsulting.com</p> <p>P.O. Box 341734, Tampa, Florida 33694-1734</p>	 <p>NFPA 70E - ARC FLASH HAZARD ANALYSIS</p> <p>SERVICES INCLUDE:</p> <ul style="list-style-type: none"> ◆ SYSTEM SURVEYS ◆ DATA GATHERING ◆ DATA ENTRY ◆ SYSTEM ANALYSIS ◆ REPORTS & LABELING ◆ TRAINING  <p>(863) 425-2698 WWW.LEEDYELECTRIC.COM</p>																																																								
	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th></th> <th colspan="2">One Month</th> <th colspan="2">6 Months</th> <th colspan="2">12 Months</th> </tr> <tr> <th>Size</th> <th>Member</th> <th>Non-Member</th> <th>Member</th> <th>Non-Member</th> <th>Member</th> <th>Non-Member</th> </tr> </thead> <tbody> <tr> <td>Business Card</td> <td>\$25</td> <td>\$33</td> <td>\$120</td> <td>\$150</td> <td>\$210</td> <td>\$252</td> </tr> <tr> <td>¼ Page</td> <td>\$40</td> <td>\$52</td> <td>\$190</td> <td>\$238</td> <td>\$335</td> <td>\$402</td> </tr> <tr> <td>½ Page</td> <td>\$75</td> <td>\$98</td> <td>\$360</td> <td>\$450</td> <td>\$630</td> <td>\$756</td> </tr> <tr> <td>¾ Page</td> <td>\$110</td> <td>\$143</td> <td>\$530</td> <td>\$663</td> <td>\$925</td> <td>\$1,110</td> </tr> <tr> <td>Full Page</td> <td>\$140</td> <td>\$182</td> <td>\$670</td> <td>\$838</td> <td>\$1,175</td> <td>\$1,410</td> </tr> <tr> <td>Insert / Sheet</td> <td>\$200</td> <td>\$260</td> <td>\$800</td> <td>\$1,000</td> <td>\$2,000</td> <td>\$2,400</td> </tr> </tbody> </table>		One Month		6 Months		12 Months		Size	Member	Non-Member	Member	Non-Member	Member	Non-Member	Business Card	\$25	\$33	\$120	\$150	\$210	\$252	¼ Page	\$40	\$52	\$190	\$238	\$335	\$402	½ Page	\$75	\$98	\$360	\$450	\$630	\$756	¾ Page	\$110	\$143	\$530	\$663	\$925	\$1,110	Full Page	\$140	\$182	\$670	\$838	\$1,175	\$1,410	Insert / Sheet	\$200	\$260	\$800	\$1,000	\$2,000	\$2,400	<p><i>Blue Elephant Consulting</i></p> <p><i>Unforgettable communication skills that will set your ideas free...</i></p>  <p>Dr. Jim Anderson jim@BlueElephantConsulting.com President Phone: 813.418.6970 www.BlueElephantConsulting.com</p> <p>P.O. Box 341734, Tampa, Florida 33694-1734</p> <div style="border: 1px solid black; padding: 10px; text-align: center; margin-top: 20px;"> <p>Your advertisement here reaches over 2300 members in the local area!</p> </div>
	One Month		6 Months		12 Months																																																					
Size	Member	Non-Member	Member	Non-Member	Member	Non-Member																																																				
Business Card	\$25	\$33	\$120	\$150	\$210	\$252																																																				
¼ Page	\$40	\$52	\$190	\$238	\$335	\$402																																																				
½ Page	\$75	\$98	\$360	\$450	\$630	\$756																																																				
¾ Page	\$110	\$143	\$530	\$663	\$925	\$1,110																																																				
Full Page	\$140	\$182	\$670	\$838	\$1,175	\$1,410																																																				
Insert / Sheet	\$200	\$260	\$800	\$1,000	\$2,000	\$2,400																																																				

IEEE, Inc. FWCS, 3133 W. Paris St.
Tampa, FL 33614-5964



Florida West Coast Section, Tampa

NON PROFIT
ORG
U.S. POSTAGE
PAID
TAMPA, FL.
PERMIT
No. 1197

DATE SENSITIVE MATERIAL. DO NOT DELAY

Change of address? IEEE Web Contact Update <http://www.ieee.org/membership/coa.html>
Or send address changes including your name, IEEE Member number and all pertinent information to:
IEEE, 445 Hoes Lane, P.O. Box 1331, Piscataway, NJ 08855-1331 or call (800) 678-4333
Or fax your address changes to (732) 562-5445

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

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
1	2	3 <i>EXCOM Meeting, 5:30 TECO Plaza</i>	4	5	6	7
8	9	10	11	12	13	14
15	16	17	18	19	20	21
22	23	24	25	26 <i>Power Transformer Overview Seminole Electric PES/IAS EXCOM Village Inn - 6am</i>	27 <i>Tampa Bay Engineer Week Banquet A la Carte</i>	28