



**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 59— No. 12 <http://www.ieee.org/fwcs> **December 2014**



Inside This Signal...

Page 2

**IEEE-USA Government Fellowship
Allow U.S. IEEE Members to Help
Shape our Nation's Laws & Public
Policy*

Page 3

** IEEE USA Free e-Book*

Page 4

** SMART Grid Symposium Back by
Popular Demand*

Page 5

** Symmetrical Components and Fault
Calculation*

Page 6

**2015 Engineers Week Banquet*

Page 7

Sponsor/Vendor Info for TBEWB

Page 8

**Change in Continuous Education*

Page 9

**Washington Internship for Student in
Engineering*

Page 10

**Calendar*

This Month's Meetings

*Tuesday, December 2: 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

FWCS Officer Nomination

[Details on page 2](#)

IEEE-USA Free e-Book

[Details on page 3](#)

SMART GRID Symposium Back By Popular Demand

[Details on page 4](#)

Symmetrical Components and Fault Calculations

[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](#)

Change in Continuous Education

[Details on Page 8](#)

Washington Internship for Student in Engineering

[Details on page 9](#)

Calendar

[Details on page 10](#)

2014 IEEE EXECUTIVE COMMITTEE

FLORIDA WEST COAST SECTION

CHAIR: Serge Beauzile (863) 834-6511 serge.beauzile@ieee.org

VICE CHAIR: Claude Pitts, cpitts7@tampabay.rr.com

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 are Opportunities to Get Your 4 Technical Hours Before the February 2015 Deadline

Brought to you by YOUR IEEE PE/IA Chapter

Friday, December 12th - Smart Grid Updates (TECO, DUKE, Lakeland)

Friday, January 23rd - Symmetrical Components & Fault Calculations - Ralph Fehr Presenting

Friday, February 27th - TBD -

Watch your upcoming Signals for more information!

Also note that the PE Requirements change for future years. Refer to the article included in page 8 of this Signal.

FWCS Officer Nominations for 2015

The FWCS Nominating Committee has brought forward the following individuals as nominees for the 2015 Officer positions for the FWCS:

Chair - Claude Pitts
Vice-Chair - Chris Lambrecht
Secretary - Sean Denny
Treasurer - Jim Howard

The elections for these officers will be held at our next Executive Committee Meeting on December 2nd at TECO Plaza.

FWCS Power & Energy and Industry Applications Joint Chapter Officer Nominations for 2015

The FWCS PE/IA Nominating Committee has brought forward the following individuals as nominees for the 2015 Officer positions for the FWCS:

Chair - Serge Beauzile
Vice-Chair - Jim Howard
Secretary/Treasurer - John Stankowich

The elections for these officers will be held at our next PE/IA Executive Committee Meeting on November 26th at Village Inn on Dale Mabry.

IEEE USA Free e-Book**Advertisement**

Wayne Ellis President		Steve Antman Sales Engineer Cell: 813-523-3161
<p> * Line Crew Services- Repair, Salvage and New Installation * On-Site Electrical Service * Transformer Repair & New Transformer Sales * Complete Turnkey Installation * Circuit Breaker Repair & New Circuit Breaker Sales * Oil Processing Services * Testing (Breakers, Relays, Transformers, etc.) </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>		
www.electricalengineeringenterprises.com		5316 E. Henry Ave Tampa, FL 33610 Phone (813)740-9601 Fax: (813)740-9360

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

In November, IEEE-USA will offer “Writing for Success An Engineer’s Guide -Volume 2: The Road to Excellence.”

Author Tom Moran shares that while it would be great to “let our fingers fly across the keyboard to rough out a report, run spell check, and send the results off to be printed or distributed, the finished product would mostly likely be filled with inaccuracies, be unclear to the readers, and ultimately -- ineffective.”

He points out that the road to writing excellence is filled with revisions. He emphasizes that writers must thoroughly examine what they write; ask questions to ensure their information is accurate, complete, logical and clear; and most importantly, that the information is necessary. Checking for spelling, punctuation and proper grammar is a must.

Moran writes that attention to detail takes a critical eye and that good writers test, write, rewrite and test again. Moran assures readers that following the process will gradually improve their writing and instill confidence “on the road to writing excellence.”

“Writing for Success -- An Engineer’s Guide -- Volume 2: The Road to Excellence” can be downloaded at

<http://www.ieeeusa.org/communications/ebooks/files/dc14/83901nz/Writing-for-Success-Volume-2.pdf> for free to IEEE members. \$9.99 for Non-Members.

In December, IEEE-USA E-books will offer “Starting Your Start-Up – Book 2: Market Size & Strategy” by Tanya Candia.

IEEE-USA E-books seek authors to write an e-book, or an e-book series, on career guidance and development topics. If you have an e-book idea that will benefit members on a particular topic of expertise, 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 the IEEE.

	
<i>Interference eliminated</i>	
EMC-EMI-E³ Design & Troubleshooting	
	your EMC WIZARD
	<ul style="list-style-type: none"> • 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
Stu Benner INARTE Certified EMC Engineer	phone: 301.730.2144 stu@emcwizard.com
PO Box 51, Odessa, FL 33556-0051	



Smart Grid Symposium Back By Popular Demand

Date: Friday, December 12, 2014
Time: 8:30am-9am Registration, 9am-3pm Seminar
Cost: \$100 members, \$200 Non-Members, \$20 Students (Includes Breakfast & Lunch)

Make checks payable to IEEE FWCS and mail a check in advance to:

John Stankowich
IEEE PE/IA Chapter Treasurer
2593 Forest Run Court
Clearwater, FL 33761-3716

Speakers: Jason Flynt, Duke Energy –Lee Collins, TECO – John McAuliffe, Lakeland Electric
Pdh's: 4 Pdh's will be awarded for this seminar. Be sure to enter your name and PE number on the signup website as it appears on your license. IEEE Florida Provider Number is 3849
Location: Seminole Electric Cooperative, 16313 North Dale Mabry,
Tampa, Florida 33618
Parking: Use parking lot in front of building.
RSVP: Online at: <http://time2meet.com/fwcs-pes1/index.html>
Space limited to the first 45 registrants!!!
Cancellation must be submitted online 24 Hrs prior to the seminar at:
<http://time2meet.com/fwcs-pes1/index.html>
No shows will be invoiced for the total cost of the seminar.
Questions: James Howard at 863-834-6585 or james.howard@lakelandelectric.com

Following up on our past two successful Smart Grid presentation, the IEEE FWCS PE/IA Chapter is pleased to present an update on the work done by local entities on Smart Grid. Where they are today, challenges they have experienced, and the future of their Smart Grid Systems. Our speakers, John McAuliffe, Jason Flynt, and Lee Collins representing Lakeland Electric, Duke Energy Florida and Tampa Electric Company. The Symposium expert speakers will present the latest information on state-of-the-art innovations in smart grid technologies and their applications in their respective company. They will provide an update on their progress implementing that vision and share intimate details of their plans. It will be an interactive presentation affording you the opportunity to participate and ask questions



Symmetrical Components and Fault Calculations

- Date: Friday, January 23, 2015
- Time: Registration: 8:00 A.M. Seminar: 8:30 A.M. - 2:30 P.M.
- Speaker: Dr. Ralph E. Fehr III, P.E., Instructor, University of South Florida
- Location: Seminole Electric Cooperative
16313 North Dale Mabry Hwy. – Tampa, Florida
- Cost: \$100 Members, \$150 Non-Members, \$25 IEEE Student Members
- PDH Credits: 5 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: Serge Beuzile at 863-834-6511 or serge.beuzile@ieee.org

The seminar will include:

- Review of Basics
 - Phasors, Per-Unit
- Symmetrical Components
 - Physical Example of Vector Components
 - Application of Symmetrical Components to Three-Phase Power Systems
 - Electrical Characteristics of the Sequence Currents
 - The Delta-Wye Transformer
- Sequence Networks
 - Thevenin Reduction of the Sequence Networks
- Fault Calculations
 - Momentary versus Interrupting
 - Short-Circuit Faults
 - Open-Circuit Faults

Ralph Fehr earned a B.S. degree in Electrical Engineering from Penn State, an M.E. degree in Electrical Engineering, concentrated in Power, from the University of Colorado at Boulder, and a Doctor of Philosophy degree in Electrical Engineering from the University of South Florida at Tampa. He has over 20 years of experience in the electric power industry and over 25 years experience in post-secondary teaching. In addition to serving on the USF Electrical Engineering faculty, he conducts power engineering training throughout the United States and worldwide.

Dr. Fehr was selected by the Institute of Electrical and Electronics Engineers (IEEE) from the 12 sections in the Florida Council, representing over 9,500 members, and named *Outstanding Engineering Educator* for 2009. Then in 2010, he was awarded the Joseph M. Biedenbach award for excellence in engineering education by IEEE Region 3. He also received the 2014 IEEE Power and Energy Society Florida West Coast Chapter Outstanding Engineer award. Dr. Fehr authored *Industrial Power Distribution* in 2002 (Prentice Hall). The second edition will be published later this year by Wiley/IEEE Press. He is a registered professional engineer in Florida and New Mexico.

SAVE THE DATE

Tampa Bay Engineers Week Banquet February 27, 2015

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 Pavillion \(4050 Dana Shores drive, Tampa, Florida, 33634\)**](#)

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



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.**



What Recruiters Say and Job Seekers Hear

Are job seekers and recruiters from different planets? With unemployed people outnumbering job openings three to one, you'd think recruiters could find the talent they need to fill positions. The problem is only 50 percent of job seekers actually have the qualifications needed for the job they apply to. It's time to bridge the gap in communication between recruiter needs and job seeker strategies. This infographic, compiled by MedReps.com, a job board which gives members access to the most sought after medical sales jobs and pharmaceutical sales jobs on the Web, provides solutions for common miscommunication between job seekers and employers. Some points to note include:

- 38 percent of companies have open positions they cannot find talent to fill

- 46 percent of resumes submitted contain some form of false information

- On average, it takes 24.5 working days to fill a position

- In the tech industry, it takes 38.9 days to fill a position

What do you think? What are some other reasons miscommunication occurs between job seekers and recruiters?

WISE

Washington Internship for Student in Engineering

Connecting Engineers & Scientists with Public Policy Since 1980




Founded in 1980 through the collaborative efforts of several professional engineering societies, the Washington Internships for Students of Engineering (WISE) has become one of the premier Washington internship programs. The WISE goal is to prepare future leaders of the engineering profession in the United States who are aware of, and who can contribute to, the increasingly important issues at the intersection of science, technology, and public policy.

Each year, the WISE societies select outstanding 3rd or 4th year engineering/ computer science students, or students in engineering/ computer science graduate programs, from a nation-wide pool of applicants. The students spend nine (9) weeks in the summer in Washington, D.C. during which they learn how government officials make decisions on complex technological issues, and how engineers can contribute to legislative and regulatory public policy decisions.

Questions regarding the WISE program and how to apply should be [directed at your appropriate WISE sponsor](#). However, please first review these webpages since most questions can be answered here..

Application **Deadline for the 2015 program - 31 December 2014**

Advertising Section

<div style="border: 1px solid black; padding: 5px;">  <p style="text-align: center;">NFPA 70E - ARC FLASH HAZARD ANALYSIS</p> <p style="text-align: center;">SERVICES INCLUDE:</p> <ul style="list-style-type: none"> ◆ SYSTEM SURVEYS ◆ SYSTEM ANALYSIS ◆ DATA GATHERING ◆ REPORTS & LABELING ◆ DATA ENTRY ◆ TRAINING <div style="display: flex; justify-content: space-between; align-items: center;">  <p>(863) 425-2698</p> </div> <p style="font-size: small; text-align: center;">Electric East, LLC WWW.LEEDYELECTRIC.COM</p> </div>	<div style="text-align: center;"> <p style="font-size: large; color: blue;">Blue Elephant Consulting</p> <p style="color: red;">Unforgettable communication skills that will set your ideas free...</p>  <p>Dr. Jim Anderson jim@BlueElephantConsulting.com President Phone: 813.418.6970 www.BlueElephantConsulting.com</p> <p style="font-size: small;">P.O. Box 341734, Tampa, Florida 33694-1734</p> </div>	<div style="border: 1px solid black; padding: 5px;">  <p style="text-align: center;">NFPA 70E - ARC FLASH HAZARD ANALYSIS</p> <p style="text-align: center;">SERVICES INCLUDE:</p> <ul style="list-style-type: none"> ◆ SYSTEM SURVEYS ◆ SYSTEM ANALYSIS ◆ DATA GATHERING ◆ REPORTS & LABELING ◆ DATA ENTRY ◆ TRAINING <div style="display: flex; justify-content: space-between; align-items: center;">  <p>(863) 425-2698</p> </div> <p style="font-size: small; text-align: center;">Electric East, LLC WWW.LEEDYELECTRIC.COM</p> </div>																																																											
<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th rowspan="2">Size</th> <th colspan="2">One Month</th> <th colspan="2">6 Months</th> <th colspan="2">12 Months</th> </tr> <tr> <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>							Size	One Month		6 Months		12 Months		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
Size	One Month		6 Months		12 Months																																																								
	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																																																							
<div style="text-align: center;"> <p style="font-size: large; color: blue;">Blue Elephant Consulting</p> <p style="color: red;">Unforgettable communication skills that will set your ideas free...</p>  <p>Dr. Jim Anderson jim@BlueElephantConsulting.com President Phone: 813.418.6970 www.BlueElephantConsulting.com</p> <p style="font-size: small;">P.O. Box 341734, Tampa, Florida 33694-1734</p> </div> <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>																																																													



Florida West Coast Section, Tampa

NON PROFIT ORG U.S. POSTAGE PAID TAMPA, FL. PERMIT

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

December 2014 Calendar of Events (For more information see P. 1) *inside this Signal...*

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
30	1	2 <i>EXCOM Meeting, 5:30 TECO Plaza</i>	3	4	5	6
7	8	9	10	11	12 <i>Tampa Smart Grid Seminar Seminole Electric</i>	13
14	15	16	17	18 <i>PES/IAS EXCOM Village Inn - 6am</i>	19	20
21	22	23	24	25 <i>Merry Christmas</i>	26	27
28	29	30	31	1 <i>Happy New Year</i>	2	3