

**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.



Inside This Signal...

Page 2

* *IEEE Membership Renewal
has its Reward*

* *Recharging Your Career
Webinar*

Page 3

* *IEEE SoutheastCon 2013
* Free IEEE eBook
Offered As a Special
Benefits to IEEE members*

Page 4

* *USF Online Master of
Science Electrical
Engineering For
Professionals*

Page 5

* *Smart Power Flow
Controller for Power Grid
Application*

Page 6

* *Tampa Bay's Engineers
Week Banquet
Engineers Turn Dreams Into
Reality*

Page 7

* *PV Design Seminar*
* *Advertising Section*

Page 8

* *Calendar*

Happy New Year!

This Month's Meetings

Tuesday, January 8: EXCOM Meeting

Meeting starts at 5:30PM At TECO Plaza

Register online at <http://time2meet.com/fwcs-excom/index.html>

Open to all FWCS Members

IEEE Membership Renewal Has its Reward

Recharging Your Career Webinar

[Details on page 2](#)

IEEE SoutheastCon 2013

[Details on page 3](#)

USF

Online Master of Science

Electrical Engineering For Professionals

[Details on page 4](#)

SMART Power Flow Controller for Smart Grid Applications Seminar

Coming to Tampa On February 8th At the FRCC

[Details on page 5](#)

Tampa Bay's Engineers Week Banquet

Engineers Turn Dreams Into Reality

[Details on page 6](#)

PV Design Seminar Coming to Tampa, Friday January 25, 2012

[Details on page 7](#)

IEEE Membership Renewal Has its rewards

2012 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: Dr. Paul Schnitzler (813) 974-5584
pauls@eng.usf.edu

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, Ken Fiallos,
ken@tampabay.rr.com

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: Vacant

GOLD: Bashar Salahia, bsalahia@mail.usf.com

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 j.howard@ieee.org (H) (813) 876-1748

STUDENT BRANCHES:

David Touvell, dtouvell@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 2012

Trying to decide whether you should renew your IEEE membership? With an IEEE membership, you gain access to the industry's most essential technical information, networking opportunities, career development tools, and many other exclusive members-only benefits.

One of these benefits, available to eligible members in the U.S., Puerto Rico and Canada* renewing the second year of their IEEE membership, is US\$50,000.00 of Group Term Life Insurance coverage available at no cost to you. The coverage will be yours for 12 months, and at the end of that period you will have the option to convert your no-cost life coverage to a paying plan, with limited or no underwriting requirements.

This initial US\$50,000.00 option of Group Term Life insurance is yours for a limited time. Watch your mail for this offer.

For more information on plan details, rates and benefits, you can visit www.ieeeinsurance.com or call 1-800-493-IEEE (4333). Learn more about [terms, conditions and carrier information](#).

*This benefit is only available for qualified IEEE members who are less than age 60 and residents of the United States (except NV and territories), Puerto Rico or Canada (excluding Quebec).

Recharging Your Career Webinar

Presenters: Pegotty Cooper

Date: 22 January 2013 | **Time:** 2:00 - 3:00 PM ET

If you have been feeling either stagnant in your current job or stuck in finding a new job, maybe it is time to give your career an infusion of new ideas and transform your experience from resigned to recharged!

In this 50-minute webinar (<http://www.ieeeusa.org/careers/webinar-01-22-13.html>) we will look at a framework for re-energizing your engagement in the workplace. Your career is your business and the same ingenuity you have applied to solving problems and challenges in your work is what we will apply to re-charging your career.

About the Presenter



Pegotty Cooper, FASE, IOM, and Certified ReCareer Coach is leading the webinar. Pegotty was the Director of Special Interests Groups for ACM for several years; and has been working with associations and their members for over 10 years as a leadership and career catalyst.



Great Sales Engineer Opportunity

Need a problem solver with a can-do spirit!

Qualifications:

- BSEE
- Excellent Communication Skills
- Solid background in T&D and Substation Products

All replies will be held in the strictest confidence

Reply To: Sales Engineer
P.O. Box 10753
Tampa, FL 33679
powerscomp@aol.com.



Free IEEE-USA eBook offered as Special Benefit to IEEE Members

In January, IEEE-USA will be offering "Launching Your Career: How to Make the Transition from the Classroom to the Office" free to members. This is the second e-book in the "Launching Your Career" series by former IEEE-USA Communications Committee Chair Abby Robinson and 2007 IEEE-USA President John Meredith.

Robinson and Meredith understand the difficult decisions recent graduates face in their search to find the perfect job, their fears in transitioning from the classroom to the workforce, and their desire to become leaders and have an enjoyable and rewarding career.

Their collaboration prompted a series of e-books directed to IEEE GOLD (Graduates of the Last Decade) members. GOLD is an IEEE program offering resources and services to graduating students, recent graduates and engineers who have attained their first professional degree in the past 10 years.

To purchase IEEE member-only products and to receive the member discount on eligible products, members must log in with their IEEE Web account.



IEEE SoutheastCon 2013 April 4 – 7 2013



Hyatt Regency Jacksonville Riverfront • 225 E. Coastline Drive • Jacksonville, FL
<http://ewh.ieee.org/reg/3/southeastcon2013/>

Call for paper

[SoutheastCon 2013 Call for Papers.pdf](#)

Important Due Dates:

- Call for papers: **September 4, 2012**
- Paper Submission: **January 14, 2013**
- Notification to Authors: **February 22, 2013**
- Final Papers Due: **March 2, 2013**
- Authors registration deadline: **March 8, 2013**

Call for Sponsorship

The annual IEEE Region 3 Student and Technical conference, *SoutheastCon 2013*, will be held at the Hyatt Regency Jacksonville Riverfront, from April 4th to April 7th, 2013. The *SoutheastCon* conferences attract approximately 500 students and 300 IEEE professionals annually. This year's conference location provides 110,000 square feet of flexible meeting and exhibit space, a 28,000 square foot Grand Ballroom, 30 individual meetings rooms, and an expansive outdoor space overlooking the St. Johns River.

Scope of Technical Program

The annual IEEE SoutheastCon conferences promote all aspects of the theories and applications of the engineering disciplines. Sponsored by the IEEE Region-3, this event will attract researchers, professionals, and students from the Southeast region of the U.S. This year's SoutheastCon 2013 event will be held in Jacksonville, Florida, at the Hyatt Regency Jacksonville Riverfront. SoutheastCon 2013 will feature tutorial sessions and workshops along with the Technical Program. Questions of a general nature should be directed to the Technical Program Chair **Butch Shadwell** at b.shadwell@ieee.org



- Focused in Systems Engineering
- Fully Online and Accelerated Program
- Application Deadline March 15, 2013




Online Master of Science

ELECTRICAL ENGINEERING FOR PROFESSIONALS

Visit: uc.usf.edu/ee

The University of South Florida is a high-impact, global research university dedicated to student success. USF ranks 50th in the nation for federal expenditures in research and total expenditures in research among all U.S. universities, public or private, according to the National Science Foundation. USF is an EO/EA institution.



		
<p>SMART Power Flow Controller for</p> <p>Smart Grid Applications Seminar</p>		

Date: Friday, February 8, 2013
Time: Seminar: Registration 8:30am-9:00am, Speaker 9:00am-3:00pm
Speakers: Kalyan K. Sen, PhD, PE, MBA, IEEE PES Distinguished Lecturer
Location: FRCC, 3000 Bayport Drive, Suite 690 Tampa, FL (Please Note New Address)
Cost: \$100 Members, \$200 Non-Members, \$50 Students. (Includes Breakfast & Lunch)
PDH Credits: 4 professional development hours will be awarded. Be sure to enter your name and PE number on the sign-up website as it appears on your license. IEEE Florida Provider Number 3849
RSVP: Online at: <http://time2meet.com/fwcs-pes1/index.html>
 Make checks payable to: IEEE FWCS
 Send checks to: John Stankowich, IEEE PES/IAS Treasurer
 2593 Forest Run Court
 Clearwater, FL 33761-3716
 Space limited to the first 45 registrants!!!
No shows will be invoiced for the total cost of the seminar.

Questions: Serge Beuzile at 863-834-6511 or serge.beuzile@lakelandelectric.com

Smart Grid is an initiative to modernize the existing electric power system, which is envisioned to be integrating necessary devices for its most efficient operation. One such operation is increasing electric power flow in existing transmission lines with the use of a goal-oriented SMART power flow controller (SPFC). A SPFC controls the flows of active power and reactive power in a transmission line independently. The direct benefit of independent control is to maximize the useful active power flow while minimizing the less desirable reactive power flow, thereby reducing losses due to the reactive power flow in a transmission line. An additional benefit is the ability to increase power flow through the desired transmission paths that have high impedances, low power flow, and low line utilization. The presentation is designed to provide the basic principles of power flow control technology and an overview of most commonly used power flow controllers. Also explained are the steps required to select the right power flow controller for a particular application



Kalyan Sen is the Chief Technology Officer of Sen Engineering Solutions, Inc. (www.sentransformer.com) that specializes in developing SMART power flow controllers. He spent 26 years in academia and industry and became a Westinghouse Fellow Engineer. He was a key member of the Flexible Alternating Current Transmission Systems (FACTS) development team at the Westinghouse Science & Technology Center in Pittsburgh, USA. He contributed in all aspects (conception, simulation, design, and commissioning) of FACTS projects at Westinghouse. He conceived some of the basic concepts in FACTS technology. He has 25 patents and publications in the areas of FACTS and power electronics, including two books. He is the co-inventor of the Sen Transformer. He received BEE, MSEE, and PhD degrees, all in Electrical Engineering, from Jadavpur University, India, Tuskegee University, and Worcester Polytechnic Institute, respectively. He also received an MBA from Robert Morris University. He is a licensed Professional Engineer in the Commonwealth of Pennsylvania. He has been serving as an IEEE Distinguished Lecturer since 2002



Tampa Bay's Engineers Week Banquet

Engineers Turn Dreams Into Reality

<p>February 22, 2013</p> <p>TAMPA BAY'S ENGINEERS WEEK BANQUET</p>			
<p>A La Carte Event Pavilion 4050 Dana Shores Dr. Tampa</p>	<p>ENGINEERS TURN DREAMS INTO REALITY 7 BILLION PEOPLE IN 2012 — 9 BILLION PEOPLE IN 2045</p>		

We are pleased to announce that the 2013 Tampa Bay Engineers Week Banquet will be Friday, February 22nd at the A La Carte Event Pavilion. Please join us at this elegant gathering to celebrate the **63rd National Engineers Week** and recognize the many contributions made to society by those in the engineering profession.

The evening will feature fine dining, an excellent guest speaker, and an exhibition room for vendors and attendee networking. We are expecting four hundred or more attendees including 250-300 engineers of all disciplines, allowing plenty of opportunities to meet with friends and colleagues.

In keeping with the spirit of the event, awards will be given to accomplished engineers in each engineering discipline, to outstanding young engineers in each discipline, and to local university students who excel in engineering related studies. We'll also be honoring select local high school educators with the Lignell Award for their outstanding instruction in the areas of Science, Technology, Engineering, and Mathematics (STEM).

We hope that you will help make this special event one of the most successful of the year by becoming a sponsor. There are several levels of sponsorship available, each offering its own rewards. By becoming a sponsor of this event you will be demonstrating your confidence in the strength of the Tampa Bay area engineering community and establishing your position among the leaders within the Tampa Bay sector. Depending on the level of sponsorship you select, you may also have an opportunity to gain visibility for your organization by having your company logo prominently displayed at their event venue, included in the event brochure, and/or listed on the event website.

We sincerely hope you will consider being part of this outstanding event to recognize those in the Tampa Bay area who are doing so much to promote engineering.

Keynote Speaker:

John M Wiencek, Ph.D

Dean of the College of Engineering, USF will talk in-depth about the future of engineering and sustaining the ever growing population of our planet.

John Wiencek is a Professor of Chemical Engineering and Dean of the College of Engineering at the University of South Florida, since 2007.

Come join the Tampa Bay Engineers Week Banquet Committee for the presentation of our annual awards banquet and celebration of our profession. For more information and to register on line, please visit the website at <http://tbewb.org/>.

 <p>IAS IEEE INDUSTRY APPLICATIONS SOCIETY</p>		 <p>IEEE PES Power & Energy Society™</p>
<h2 style="color: #A52A2A;">PV Design Seminar</h2>		

Date: Friday, January 25, 2013
Time: Seminar: Registration 8:30am-9:00am, Speaker 9:00am-3:00pm
Speakers: Dave Click State Licensed Solar Contractor, /NABCEP Certified PV Installer & Instructor
Location: Seminole Electric Cooperative, 16313 N. Dale Mabry Highway, Tampa
Cost: \$100 Members, \$200 Non-Members, \$50 Students. (Includes Breakfast & Lunch)
PDH Credits: 4 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. IEEE Florida Provider Number 3849
RSVP: Online at: <http://time2meet.com/fwcs-pes4/index.html>
 Make checks payable to: IEEE FWCS
 Send checks to: John Stankowich, IEEE PES/IAS Treasurer
 2593 Forest Run Court
 Clearwater, FL 33761-3716
 Space limited to the first 45 registrants!!!

Cancellations must be submitted online 24 Hrs prior to the seminar at: <http://time2meet.com/fwcs-pes4/index.html>
No shows will be invoiced for the total cost of the seminar.

Questions: Serge Beauzile at 863-834-6511 or serge.beauzile@lakelandelectric.com

Dave first got involved in solar energy through the Department of Energy's first Solar Decathlon. When searching for an undergraduate research project, he found a DOE flyer announcing the 2002 competition and was hooked from the start. He served as project manager for the engineering team behind the University of Virginia's entry. After receiving his BS and MS degrees in electrical engineering from UVA, he joined Solar Design Associates in Massachusetts from 2004-2007, managing and designing PV projects from 3-600kWdc. Since 2007, Dave's been working at the Florida Solar Energy Center in Cocoa, with projects including training prospective PV installers, leading local efforts in DOE market transformation programs, and educating code officials on proper PV design and installation. An IEEE member, Dave and family live in Orlando under their 5.4kW PV system

Advertising Section

 <p>Jacklin IP LAW, PLC. AN INTELLECTUAL PROPERTY LAW PRACTICE</p> <p>t 813.489.5450 f 813.527.9952</p> <p>Kim Jacklin JD, BSEE REGISTERED U.S. PATENT ATTORNEY</p> <p>KJACKLIN@JACKLINPATENTS.COM 2405 CREEL LANE SUITE 102 WESLEY CHAPEL, FLORIDA 33544 WWW.JACKLINPATENTS.COM</p>	<p style="text-align: center;">Qualified Communication Services, Inc.</p> <hr style="border: 2px solid red;"/> <p>Editorial Services Technical Writing Training Web Content</p> <p style="text-align: right;">Lesley Peters President</p> <p>813-964-9085 lesleypeters@qcommsservices.com</p> 	<p>SmartGrid Cap Controllers, Transformers, Power Transformer Coolers, Pumps, Valves, And Radiators, Switchgear, Insulators</p> <p>Powers & Company, Inc.</p> <p>(813) 282-3011 P.O. Box 10458 Fax (813) 282-3298 Tampa, Florida 33679 powerscomp@aol.com cell (813) 760-2556</p> <p>Dick Powers BSEE IEEE/PES Member</p>
--	--	--

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

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

**Your advertisement here
reaches over 2300 members
in the local area!**



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

January 2013 Calendar of Events (For more information see P. 1) *inside this Signal...*

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
30	31	1 A HAPPY NEW YEAR	2	3	4	5
6	7	8 IEEE EXCOM TECO Plaza 5:30pm	9	10	11	12
13	14	15	16	17	18	19
20	21	22	23	24	25 PV Design Seminar 9 AM Seminole Electric	26
27	28	29	30	31 PES EXCOM Meeting, 6AM	1	2