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THE

SUNCOAST

SIGNAL

THE INSTITUTE OF ELECTRICAL AND ELECTRONICS ENGINEERS, INC.



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This Month's Meetings

**Tuesday, September 3: 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**

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IEEE USF Student Branch Summer Activities

July 9th: IEEE 3rd Meeting

IEEE USF Student Branch had its 3rd meeting regarding IEEE upcoming events and plans on how to reach out to 1st -2nd year engineering students for the Fall Semester. IEEE USF Student Branch is going to make a short presentation on August 20th to incoming engineering students about IEEE and its exciting activities. We plan to showcase the SouthEastcon Robot to get their attention. Around 10-13 people attended the meeting.

IEEE is also doing fundraising events through AMARAK. Basically, every Bucs or USF game is an opportunity for the chapter to fund raise money. The fundraising will generate at least \$500-\$1000 per game.

Upcoming Events:

August 5th: Leaders Training for Aramark

August 6th: Volunteers training for Aramark (15 volunteers will be attending)

August 8th: 1st Fundraising Event for Aramark

August 20th: IEEE presentation to incoming engineering students

August 26th: 1st Day of class. IEEE and Robotics team will set up a booth in front of the engineering building to attract potential members.

IEEE Robotics Update!

July 9th: IEEE 1st robotics meeting

Robotics team had its very 1st meeting! We discussed the future of IEEE robotics at USF, the future Hardware challenge for SouthEastcon 2014, and how we can attract more members. Dr. Bhanja and another 10 students attended the meeting.

July 31st- There were seven IEEE members who volunteered to help Mr. Ken Fiallos with Arduino workshops.



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IEEE-USA's Free E-Books to Members in August & September Feature Reference Tools for Successful Presentations, Career Survival

WASHINGTON (6 August 2013) – IEEE-USA E-Books is offering Nita K. Patel's "Technical Presentations – Book 2: Structure-Anatomy of a Successful Presentation" free to IEEE members in August.

Patel writes that a technical expert must not only know, understand and interpret complex data, but also present the facts through clear, concise and proper speech. The first step in conveying technical information is to establish a clear understanding of when, where, why, how, what and to whom your information is to be presented. The next step is to structure the presentation.

A sample of topics includes: "Pre-Writing," "Personal Introductions," "Captivating Openings" and "Compelling Conclusions." Examples and checklists make this e-book a valuable reference tool for delivering effective presentations.

Patel is a former IEEE-USA vice president for communications and public awareness.

"Technical Presentations – Book 2: Structure – Anatomy of a Successful Presentation" can be downloaded at

<http://www.ieeeusa.org/communications/ebooks/files/2ndi290d/Technical-Presentations-Book-2.pdf>

for free to IEEE members. The nonmember price is \$9.99.

SEPTEMBER FREE E-BOOK

"The Best of Today's Engineer: On Career Survival – Volume 2" is a collection of articles that is valuable regardless of whether you're looking for a job, wondering if you are valued as much as you should be in your organization, or pondering the future of engineering as a vehicle for innovation and productivity.

Successful career management doesn't happen just by luck. It calls for constantly monitoring your sense of success and sense of fulfillment. Career management is an ongoing process, calling for skills in job search techniques, knowing how to promote your value to your employer, and keeping up with your industry and profession.

This e-book will be available to members free in September.

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



Utility Battery Systems Seminar

- Date:** October 25th, 2013
- Time:** Registration: 8:00 A.M. Seminar: 9:00 A.M. - 3:00 P.M.
- Speaker:** Art Salander, Roy Gates
- Location:** Seminole Electric Cooperative, 16313 North Dale Mabry,
Tampa, Florida 33618
Parking: Use parking lot in front of building
- Cost:** \$100 Members, \$200 Non-Members, \$20 IEEE Student Members
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
- 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 IEEE
- Reservations:** Online at: <http://time2meet.com/fwcs-pes1/index.html>
Space limited to the first 45 registrants!!!
- Questions:** Jim Howard at 863-834-6585 or Jim.Howard@Lakelandelectric.com

Topics

- I. 19th Century Battery History
- II. A study of Phased Controlled SCR charging
- III. Determine Recharge Voltages
- IV. Alarm settings
- V. Enclosure types defined and considerations provided
- VI. Ripple Content on the bus and what the allowable numbers really are.
- VII. Battery Charger Sizing Calculations
- VIII. Practical Application of Modular Battery/charger Enclosures
- IX. Mobile Power Systems
- X. Using Diode Isolation Systems
- XI. Stationary Batteries Defined: Flooded Lead Acid Batteries, Valve Regulated Lead Acid (VRLA) Batteries, Nickel Cadmium Batteries:
- XII. Battery Sizing
- XIII. Installation / Maintenance / Testing / Maximizing your Investment
- XIV. NERC PRC-005, DC System considerations with a review of the pertinent sections in the Supplemental Reference and how they may be implemented.

Speakers:

Art Salander – Graduate Adelphi University/Physics & Engineering, IEEE Senior Member, Art has lectured on many aspects of battery and charger applications and has worked on developing battery load profile and sizing techniques and standards in use today. He is also the current Conference Manager for the IEEE NewNEB Conference and is currently providing application engineering and business development for HindlePower, Inc.

Roy Gates - 25-years' experience with stationary batteries, currently with HindlePower, Inc. Experienced in a variety of electro-chemistries, including alkaline, lithium and traditional lead acid designs, his responsibilities ranged from systems design engineering to installation, testing and long-term maintenance, as well as training and education. A sought after speaker within the IEEE Continuing Education on Demand community, Roy has given numerous papers and presentations on selection, sizing, configuring and operating all types of energy storage.



FWCS Consultants Network Affinity Group of IEEE Meeting on Sep24th 2013

For this occasion we have invited Mr. Matt Messana, President and Owner of Office Source Specialists (OSS) a personnel search agency operating in Pinellas County with 18 years of experience in helping Engineers become gainfully employed since 1995.

Matt will be speaking about the intricacies of getting Engineering Consultants knowledgeable enough to get that coveted position that they are trying to qualify for in their areas of expertise like Procurement of Aerospace, Satellite, DoD and IT contracting with confidential and unique talent. Permanent, Retained, Contingency, and Contractual abilities within the US, and at times abroad.



Matt has personally consulted and secured approximately 100 Florida and National Corporations with a sales value of over 200k in permanent hires and 145k per annum in Contracts and temporary services. In addition, he has complete understanding of IT, C-level retainer hires, and All Engineering, Sales, and Operations candidates. Recruited, Screened, Networked, and Prepared candidates throughout entire interviewing/hiring process. During his career he has taught successful client solicitation techniques to in house solicitors geared towards a congruent Client/Vendor relationship and consulted with Clients' HR and/or Management Executives on in depth employment dilemmas, strategies and the options afforded them.

We are very pleased that he has accepted to become our Guest Speaker for the September 24th meeting which we, the Consultants Network Affinity Group will hold jointly with the Computer Society/AES.

Meeting Location
CDB's Southside
3671 S. Westshore Blvd, Tampa



Important Dates

- Early Bird rates Expire 8/15/13
- Papers to be submitted by 6/3/13
- Paper Acceptance by 7/8/13
- Final Papers to be submitted by 8/26/13
- Paper acceptance notifications 9/2/13
- Power-Point submissions by 9/16/13

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The student branch of the Institute of Electrical and Electronics Engineers (IEEE) at University of South Florida has an exciting opportunity for your company! In addition to investing in the future generation of engineers, we also offer a number of benefits to our sponsors.

The purpose of the USF IEEE student branch is to focus on the technical and professional development of our student members. This includes hosting various events throughout the semester such as technical tours, professional talks, workshops, social events, and many others. As an employer with engineering interests, your company will profit from the exposure and networking opportunities that associating yourself with the University of South Florida's IEEE student chapter will provide.

Exciting Benefits

As a sponsor of the University of South Florida's IEEE student branch your company would gain the following benefits:

1. The opportunity to arrange volunteer services to be provided by IEEE USF students who may one day be considered to become employees of your firm.
2. Community involvement credit for your firm through the addition of your company to the Sponsorship page of University of South Florida's IEEE student branch website
3. Special mention of your firm at all our events and recognition on hand-out materials at our events
4. Boosting awareness of your firm by the addition of your logo to our USF T-Shirts
5. Free attendance by your management and employees to any of our events
6. Tax deductible contributions!
7. ***Donation Information***

Contributions are tax deductible to the extent provided by law. All gifts will be sent a receipt and thank you letter acknowledging your contribution.

Any monetary amount would greatly benefit the cause of USF IEEE. Support ranging from \$1,000+ (Gold Level) to Project Assignments (Mini Projects) will be greatly appreciated. For detailed information about the use of funds, and how different funding levels benefit your company please visit <http://sites.ieee.org/sb-usf/sponsorship/>

Please make the check payable to IEEE USF Student Branch and please fill out the form below and return the form along with your donation to:

Department of Electrical Engineering
College of Engineering
University of South Florida
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Contact Information (The donation receipt and thank you letter will be written to and sent to the information provided below)

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To further discuss how both of our organizations could benefit by working together, please contact Kenneth Alfeo Almirol, IEEE USF Student Branch Chair, at aalmirol1@mail.usf.edu or call (813)-760-9596.

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

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
1	2	3 <i>IEEE EXCOM TECO Plaza 5:30pm</i>	4	5	6	7
8	9	10	11	12	13	14
15	16	17	18 <i>PACE Meeting</i>	19	20	21
22	23	24 <i>Consultant Network Meeting</i>	25	26 <i>PES/IAS EXCOM Village Inn 6am</i>	27	28
29	30	1	2	3	4	5