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THE

SUNCOAST

SIGNAL

THE INSTITUTE OF ELECTRICAL AND ELECTRONICS ENGINEERS, INC.



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This Month's Meetings

Tuesday, July 10: 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

Open Letter from your IEEE USF Branch

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Open letter from your IEEE USF Student Branch

I'm David Touvell and I'm the Chairman of the University of South Florida's student branch of the Institute of Electrical and Electronics Engineers (IEEE). I'm contacting you because we have an exciting offer that may benefit your company and I'd like to have an opportunity to discuss with you.

The IEEE is the world's largest professional organization with over 500,000 members worldwide. It is committed to advancing the fields of electrical and electronics engineering. The University of South Florida's student branch of the IEEE consists of Electrical/Computer Engineering and Computer Science undergraduate and graduate students who are in the process of working towards technical degrees.

I believe that if your company became a sponsor of the University of South Florida's IEEE student branch it could result in many benefits for both your firm and the student branch. The specific benefits for your firm would include:

1. Boosting awareness of your firm by the addition of your logo to our USF T-Shirts
2. Potential customer awareness of your firm through the addition of your company's logo to our promotional materials
3. Community involvement credit for your firm through the addition of your company to the Sponsorship page of University of South Florida's IEEE student section website
4. Free attendance by your management and employees to any of our events
5. Special mention of your firm at all our events and recognition on hand out material at our events

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

The purpose of the University of South Florida's student branch of the IEEE 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.

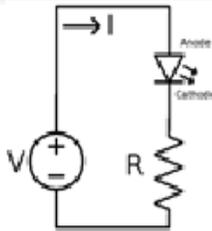
I look forward to having an opportunity to discuss how we could benefit both of our organizations by working together. If you'll take the time to give me a call or send me an email, we can set up a time that will work with both of our schedules to have a talk about what the correct next steps should be.

I look forward to hearing from you.

Sincerely,

David Touvell
IEEE USF Chair
dtouvell@mail.usf.edu
(321)-652-7896

P.S.: For more information on our student branch please email us at ieee.usf.tampa@gmail.com or visit our website at sites.ieee.org/sb-usf/



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EMBS Future Plans

Your EMBS chapter is planning on having one meeting a month, starting in the Fall.

We still need to get confirmation from the speakers, so we are not sure of the exact dates or the order of the speakers yet. The intent is to get confirmation during the summer, so we can confirm the list of topics prior to Fall.

The following is a list of proposed topics or topical areas:

- 1) Designing "Intelligent" Neuroprosthetics (Speaker Justin Sanchez, Ph.D.)
- 2) da Vinci Surgical Robot - Tour and Discussion (possibly do this in conjunction with RAS)
- 3) Memory & Learning (Angelman syndrome)
- 4) Neural Probes – Brain Machine Interface
- 5) Rehabilitation Engineering (Prosthetics) – VA Annex
- 6) Sleep Research – (at SRI, in St. Petersburg)

Your Florida West Coast Section is Looking for Volunteers

We are currently looking for a new slated of officers to chair the following Chapters: Women In Engineering “WIE”, Signal Processing and Communication “SP/Com”, and Life Members.

If you are active in the Florida West Coast, then we urgently need your help to keep these chapters active. If you are interested in volunteering and motivated you need to be part of the revival of the chapters listed above, please send your name to serge.beauzile@ieee.org.

Great Tour of Pinellas Waste to Energy Facility

On June 14th 2012 your PES/IAS Chapter had 18 members and guests attend an educational Tour of the Pinellas County Waste to Energy Facility, St. Petersburg Florida. We were hosted by Messer’s Thomas Roberts, Solid Waste Technician- Pinellas County Utilities and David Blackmore, Operations Manager- Veolia Environmental Services. Mr. Roberts provided a tour of landfill and recycling operations with Mr. Blackmore providing a tour of the Waste to Energy Plant. Both gentlemen are very knowledgeable and very informative. We were provided a very unique perspective to what most of us take for granted, the handling of municipal waste and specifically what Pinellas County is doing at the Waste to Energy Facility to produce electricity and improved landfill efficiency. This tour certainly provided the perspective of what we all can do in the matter of recycling and proper disposal of unwanted items.





FWCS PES UTILITY USERS GROUP MEETING

ARC FLASH REMEDIATION



Date: Wednesday, July 18, 2012

Time: 9:00AM – 1:00PM

Speaker: Thomas Blair, P.E., Senior Consulting Engineer, TECO
George Bolos, P.E., Consulting Engineer, TECO

Location: 13031 Wyandotte Road, Apollo Beach, FL 33572

Cost: FREE (a snack will be provided)

RSVP: Online at: <http://www.ewh.ieee.org/r3/floridawc/>
(Select Reservations)

Questions: Tom Blair at 813-228-1111, ext 48179 or tom_blair@ieee.org

Your IEEE PES West Coast Chapter is starting a local utility users group where we plan to meet once every few months and discuss current topics of interest to local utilities. We hope to share our lessons learned with other fellow utility engineers and provide an additional benefit of IEEE membership for utility engineers.

Currently, the following topics will be scheduled for discussion in future meetings.

- Arc Flash Labeling and Remediation
- NERC/CIP Compliance Efforts
- Substation / Generation Station Upgrade Efforts
- Substation / Distribution System Automation
- Generation Station Relay Upgrades
- Distribution Monitoring Equipment Upgrades.

If there are other topics of interest, please email us and let us know what topics would be beneficial for the group.

Our first meeting will be Wednesday, July 18 at the Tampa Electric Big Bend Power Station where TECO will present their work on Arc Flash Remediation. Tampa Electric Engineers will present a case study of an arc flash remediation project at a utility electrical generation facility. We review the engineering technologies and safe work practices utilized to reduce the arc flash incident energy values at an existing electric utility generation facility. An initial engineering study was performed of a 40 year old facility to determine the arc flash incident energy values at various pieces of equipment at the station. After the initial engineering study was completed, a second phase of the project was undertaken to reduce these values. Several technical challenges unique to the electric utility industry had to be overcome to substantially reduce incident energy levels. Examples of such challenges were how to address incident energy values on electrical equipment directly connected to large generators such as station service breakers and how to address the substantially large values of arcing current due to the size of onsite generation (about 1500 MW of generation capacity) all of which lead to large values of incident energy levels at some locations at generation facilities. This meeting will present the engineering design solutions and the safe work practices that were implemented to address these and other challenges at the electric utility generation facility to reduce incident energy levels and improve electrical safety at the station. The result of the arc flash remediation project was that final arc flash values were substantially reduced. At one location, after the initial engineering study performed in phase 1 of the project, the electrical distribution system for one unit was found to have 69% of the electrical equipment with incident energy levels greater than 8 cal/cm². After the completion of phase 2 of the arc flash remediation project, all of this equipment had the incident energy levels reduced to values below 8 cal/cm².

Consultants Network

Port of Tampa Latin America Trade Development

Tuesday, July 31, 2012 at 6:00 PM



The Consultants Network Affinity Group of Florida West Coast Section of IEEE will hold a dinner meeting on Tuesday, July 31st 2012 at 6:00 pm at CDB's Restaurant located at 3671 South Westshore Blvd. S., Tampa, FL 33729.

There will be a special speaker, Jim Pyburn, the Port of Tampa Director of Trade Development.

Mr Pyburn's presentation will be an **“Overview of infrastructure and investments at the Port of Tampa -- Moving Tampa ahead in the 21st century.”** This presentation will offer a clear picture of the economic contributions as well as the logistics that the Port of Tampa offers to the local and national economy.

This information will be helpful to small business firms and consultants that wish to build trade and business with Latin America and other international markets. This is an open meeting. Non-IEEE members and students are invited as well as all IEEE groups. Take this opportunity to be informed about trade, the Port of Tampa and the resources and contacts available to you.

Please join us on the 31st of July for an interesting talk and a delicious Italian dinner. At 6:00pm we will network and have dinner. After dinner, Mr. Pyburn will present to the group.

Time: 6:00 PM – 8:00PM

Cost: IEEE Members: \$3 + your dinner cost from the full menu.

Non-IEEE Members: \$5 + dinner cost (full menu selections).

Students: \$1 + dinner cost (full menu selections).

Please make your reservation at <http://time2meet.com/fwcs-cs1/index.html>



Career Resources for IEEE Members

Unemployed or concerned about your future? Check out the following resources to help you with your career and employment: [IEEE-USA Career Navigator](#), [IEEE Job Site](#), [Employment and Career Strategies Forum](#) and the [IEEE career page](#).

For further information contact [Ed Kirchner](#), Chair Employment and Career Services Committee or [Scott Grayson](#).





IEEE TISP Program Conference

As part of the FWCS activities bridging Engineers and Teachers together to improve Pre-college education in the FWCS, we had the opportunity to participate in the Teacher In Service Symposium Conference in Tampa the weekend of May 18, 2012.

Former Manatee County Principal Doug Gorham, who helped develop the Teacher In Service Program (TISP) program which began here in the FWCS, attended the event to highlight the world-wide accomplishments of the IEEE TISP Program. The goal of the program is build the “technological literacy in Pre-college students” by training teachers and educators. The FWCS is currently working with twelve counties through Professional Study Days, Great American Teach-Ins, Florida Engineering Education Conference, Science Fairs, and the Tampa Bay Engineering Week Banquet.

The TISP event was the work of many IEEE Staff and volunteers, including, but not limited to, Yvonne Pelham and Lynne Bowlby from IEEE Staff, and local volunteers Sean Denny, Ralph Painter, and Donna Howard. IEEE Past President, Moshe Kam and IEEE-USA current President Jim Howard both attended and provided presentations at the event. Many teachers and other TISP Champions were also in attendance.

Freddie Wong from Houston chaired the event and Jim Howard welcomed everyone to the FWCS, the home of the original TISP presentation. John Luce, a long time member of the FWCS, was the first TISP presenter back in February 2001. This TISP conference had over 50 attendees with sixteen countries represented. Moshe Kam discussed TISP in developing countries as well as the future of the IEEE TISP program.

The event ended with the group attending a lunch and tour at the Museum of Science and Industry (MOSI). Chair Feddy Wong later wrote that he had heard positive comments from the participants from around the globe about their experience here in the FWCS and thanked the host committee members in Tampa in selecting a wonderful venue for the symposium and the visit in the afternoon to MOSI. Doug Gorham, who was an active member of our Section when the TISP program began, also thanked everyone for a well-organized event!



Negotiation Seminar attendees - Get more than bargain for

The Florida West Coast Section's PACE group held a seminar titled "Negotiating Secrets For Engineers -- Get What You Want, When You Want It!" on the evening of Wednesday, June 20th. Dr. Jim Anderson presented 15 rules for how engineers can become superstar negotiators.

This seminar asked our local engineers that although they knew WHAT they wanted, did they know HOW to get it? During the presentation, Dr. Anderson taught the audience how to prepare for and WIN their next negotiation.

The role that power plays in negotiation was covered in detail – who has it, how to get, and how to keep it once you have it! The skills that the audience got during this presentation will be able to be put to immediate use. No matter if they are asking their boss for a raise, trying to get the best deal from a vendor, or even if they are trying to get the best deal on their next car, then the world had better watch out – everyone who attended this PACE seminar has now become a superstar negotiator!

Dr. Jim Anderson
Email: jim.anderson@ieee.org

IEEE Florida West Coast Section PACE Chairman
IEEE Florida Council Treasurer
IEEE R3 Public Information Officer

Keynote Address at the IEEE-USA Annual Meeting

Region 3 Public Information Officer and Past FWCS Chair Jim Anderson gave a great keynote at the IEEE-USA Annual Meeting in Cincinnati this month. Please watch it on YouTube

http://www.youtube.com/watch?v=WumGjL_xduI

you will find that it was a great 30 minute keynote that has lessons for all of us. He titled the presentation “*How to Change the World...*”

The YouTube description:

Dr. Jim Anderson delivered a high-energy keynote speech at the 2012 IEEE USA annual conference. In this powerful presentation, Dr. Anderson clearly laid out how the audience could go about changing the world. He identifies 4 actions that they can take right now and shows the results that they can expect to achieve.

Well done Jim

Advertising Section

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Florida West Coast Section, Tampa

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July 2012 Calendar of Events (For more information see P. 1) *inside this Signal...*

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
1	2	3	4 HAPPY 4th of July	5	6	7
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15	16	17	18 FWCS PES USERS GROUP Meeting 9 PM	19	20	21
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