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THE

SUNCOAST

SIGNAL

THE INSTITUTE OF ELECTRICAL AND ELECTRONICS ENGINEERS, INC.

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This Month's Meetings

***Tuesday, November 1st: 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

Robotics and Automation Society Meeting

Meeting is Tuesday, November 15, 2011

Go to the RAS Page of FWCS Website for Latest Info!

Risk Management Web Seminar

Speaker Peter Malpass

November 16, 2011

Time: 2:00-3:00PM

[Details on page 5](#)

Upcoming Event!

Tampa Brass and Aluminum Tour

Tuesday, December 13, 2011

Tour Starts at 6:00PM

Paul Rehsi, VP of Sales and Engineering

[Details on Page 4](#)

This Month...(Editor's Column)

2011 IEEE EXECUTIVE COMMITTEE FLORIDA WEST COAST SECTION

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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.

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As you many notice, there is an ad for a replacement for me as newsletter editor. I have been the editor of the Signal for nearly four years having taken over from Paul Schnitzler. He mentored me in the beginning and was my "go to" person when a problem occurred with something. It has certainly not been easy but it has been a great learning experience for me. It has made me appreciate the amount of work that must go into publishing magazines and other publications that I read each month. I am hoping to fine a volunteer to replace me that will carry on and keep the standards high. I receive several printed newsletters and ours is by far the most detailed from an appearance standpoint and informative.

I wrote about Steve Jobs in the September issue and since his passing recently there has been much discussion of his life and company. Everyone I have spoken with about him has an opinion, either good or bad about him as a person and Apple products. He was a visionary and he is still changing the way we live our lives.



IEEE-USF Student Branch News and Events

Sponsorship for IEEE-USF:

The USF Student Chapter is currently seeking out new potential sponsors for funding our year's events. By funding us, you will open more opportunities for our members as well as for your company. Your company will be displayed at IEEE hosted events, any donations are tax deductible and you will have a reserved spot at IEEE senior banquets. If you and your company are interested in sponsoring the IEEE student Branch at USF or if you know anyone else that is interested, please contact us at: dtouvell@mail.usf.edu

The Upcoming IEEE/FWCS Mentorship Program

Our student branch at USF is starting the all new IEEE/FCWS mentorship program and is in need of new mentors. The student branch is seeking volunteers within the Florida West Coast Section membership body who would be willing to participate. Up to three students will be assigned under each mentor working in their area of interest. The program will call for a minimum of one monthly meeting from each mentoring group, overall being three meetings a semester. The meeting times and locations are to be arranged and agreed to by the mentor and his or her students within each group.

By participating in the IEEE/FWCS mentorship program you will be helping to develop experience, networking, and professionalism among the upcoming student body; the engineers of tomorrow. Students will be granted the opportunity to meet and associate with professional IEEE members, allowing them to create a professional relationship with members of the Florida West Coast Section and opening up more opportunities for student involvement.

If you are interested in participating in the IEEE/FWCS mentorship program, please contact us by email at: mikelgraves@mail.usf.edu



Call for Nominations for FWCS Officers for the 2012 Term

The FWCS Nominating Committee is requesting nominations for the 2012 FWCS Officers. Please contact one of the below Nominating Committee Members if you are interested in becoming an officer of the Section or want to nominate someone else as a possible officer for the section. The slate of candidates for the 2012 term will be advertised in the December Signal and the Section will hold elections at its December meeting before the end of the year. The positions include Chair, Vice-Chair, Treasurer, and Secretary.

Nominating Committee:

Jim Howard (J.howard@ieee.org)

Jim Beall (J.beall@ieee.org)

Richard Beatie (r.beatie@ieee.org)



Call for Nominations for PE/IA Chapter Officers for the 2012 Term

The FWCS PE/IA Chapter Nominating Committee is requesting nominations for the 2012 PE/IA Officers. Please contact one of the below Nominating Committee Members if you are interested in becoming an officer of the chapter or want to nominate someone else as a possible officer for the chapter. The slate of candidates for the 2012 term will be advertised in the December Signal and the Chapter will hold elections at its December meeting before the end of the year. The positions include Chair, Vice-Chair, Secretary, and Treasurer.

Nominating Committee:

Jim Beall (J.beall@ieee.org)

Richard Beatie (r.beatie@ieee.org)



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Renew Your IEEE Membership Today!

Don't Risk Losing Your Many IEEE Benefits by Letting Your Membership Lapse.

Renew on-line at:

http://www.ieee.org/membership_services/membership/renew/index.html

If you renew your membership for 2012 by 15 November 2011, you will be entered to win one of five Apple® iPad® tablets. See above URL for details.



IEEE-USA in ACTION' App Available in iTunes Store

WASHINGTON (28 September 2011) -- An app for "IEEE-USA in ACTION," IEEE-USA's quarterly electronic publication, is now available for download from the iTunes store. The app is free and compatible with iPad, iPod touch and iPhone. See <http://itunes.apple.com/us/app/ieee-usa-in-action/id461081367>.

"IEEE-USA in ACTION" highlights IEEE-USA programs, products, services and activities. This interactive online magazine features stories for technology professionals, polls, photo slideshows, commenting and the ability to share articles through social media channels such as Facebook and Twitter. The full page of a story can also be viewed without having to scroll.

The app contains six past issues and the fall 2011 issue:

http://www.nxtbook.com/nxtbooks/ieeeusa/ieeeusa_fall11/index.php?startid=2#/1. The latter features articles on, among other things, IEEE members' attitudes toward workplaces and careers, an e-book series on "Leading and Managing," diary of a congressional fellow, high-energy visits to Capitol Hill and IEEE-USA's student video competition.

Once the app is downloaded, new issues of "IEEE-USA in ACTION" will automatically be added to your device four times a year.

IEEE-USA advances the public good and promotes the careers and public policy interests of 210,000 engineering, computing and technology professionals who are U.S. members of IEEE. <http://www.ieeeusa.org>

Contact: Chris McManes

IEEE-USA Public Relations Manager

202-530-8356

c.mcmanes@ieee.org



Signal Newsletter Editor Wanted!

The EXCOM is looking for a new Signal newsletter editor! The current editor is moving on to other things and a replacement is needed. Anyone interested should be able to use Microsoft Word reasonably well. I will show someone how the process works in producing the Signal every month and be available as support. Contact me at rsancz@verizon.net or 813-361-7563 for more information.





Tampa Brass and Aluminum Tour

- Date:** Tuesday, December 13, 2011
Time: 6:00pm
Speaker: Paul Rehsi, VP of Sales and Engineering
Location: 8511 Florida Mining Blvd, Tampa, FL 33634
 (First street East of Anderson Road along Waters Ave, behind the FedEx facility)
Cost: Free of Charge to attend!
RSVP: Online at: <http://time2meet.com/fwcs-pes4/index.html> (Select Reservations)
 Space limited to the first 20 registrants!!!
Questions: Tim Doolittle at 813-735-2722 or tdoolittle@fastmail.fm



Tampa Brass & Aluminum Corp. began as a three-man foundry in 1957. Sam Leto Sr., a first generation American of Italian immigrant parents, his 19 year old son, Sam Jr. and an uncle leased a small building and began pouring metal castings for the shipping and phosphate industry in the Tampa area. Between the three, they made the molds, poured the metal, dumped the molds, finished the cast pieces, then packed and delivered them to the customer.

Just prior to 1986, TB&A became aware that the government, Raytheon, McDonnell-Douglas and other defense contractors were seeking quality minority suppliers of castings and machining. By this time, Sam Jr., whose mother was Cuban-American, was running the business. He recognized the opportunities his Hispanic descent would lend him, and planned for increased business. TB&A built a new facility adjacent to the existing machine shop. The result is its present location on 5 acres of land and a 56,400 square foot facility.

Through the years, Tampa Brass & Aluminum has provided parts and supported programs such as Hawk, Patriot, AMRAAM, Sidewinder, Tactical Tomahawk, Maverick Missiles, Armored Tanks, Various Radars, Communication Systems, Power Breaker Units, Electrical Switches, Submarines, Destroyers, Mine Detectors, and Minehunters.



Nominees for EMBS Chapter Officers for the 2012 Term

The FWCS Nominating Committee is pleased to publish the list of nominees for EMBS chapter officers for the 2012 term. The slate of candidates for the 2012 term will be advertised again in the November Signal and we plan to hold the elections before the end of the year.

- | | |
|----------------|---------------------|
| John West | Chair |
| Steve Sadow | Vice-Chair |
| Rodolfo Rogers | Treasurer/Secretary |

Serge.beauzile@ieee.org
Claude.Pitts-III@pgnmail.com

Nominations Committee



Renew Your IEEE Membership Today!

IEEE-USA Risk Management Seminar Series

Seminars are monthly, started July 20 with "Cyber Security in the Electric Utility Sector"

For details/registration, visit: <http://www.ieeeusa.org/careers/webinars/2011/Risk-Management.html>

Overview

This webinar will discuss the Lean Six Sigma methodologies and their synergy with Risk Management. It covers the fundamental areas of the Lean Six Sigma, addressing both the concepts and approaches and how they apply to Risk Management. The course provides an opportunity for participants to fine tune their understanding and application skills through a structured review of the key topics, class discussions, exercises, and practice questions.

Cost is \$19 per seminar (\$89 for the series) for IEEE members (non-member rate \$38/\$189). Participants will have access to a host of online risk resources, including articles in IEEE-USA's Today's Engineer <<http://www.todaysengineer.org/>>, webinar replay, risk articles, blogs, comment/discussion with risk experts, and much more. The next seminar is shown below.

16 November 2011

Time 2:00PM – 3:00PM Eastern Daylight Time

Lean Six Sigma for Risk Management

Adina Suci



IEEE-USA President Elect Jim Howard Speaks to the USF IEEE Student Branch

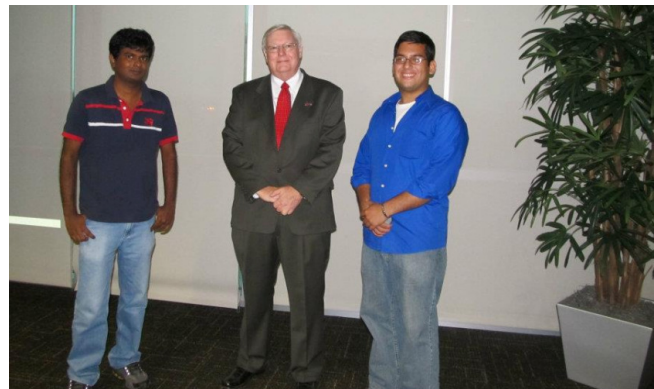
On Thursday, September 22nd, 2011 Jim Howard, the IEEE USA President-Elect and FWC Section Student Branch Mentor spoke to a group of over 20 students at USF Marshall Center. The students braved the massive storm that was passing over the campus to attend and were greeted with sandwiches, pizza, and soft drinks.

Mr. Howard presented an overview of IEEE USA and what it has to offer to the students throughout their careers. He encouraged them to join and be an active member of IEEE as part of their on-going career development. He also shared with them his many experiences with IEEE since he joined as a student at USF (he stated his joining IEEE at USF was few years ago-☺). The students had many questions and the entire evening was a very interactive experience for all.

As many questions for Mr. Howard were about the Power Industry, where he has spent his over 30 years career, Mr. Howard has agreed to speak to the IEEE Student Branch again in the future about Power Engineering and what it has to offer as an outstanding career for them. Watch for information on this upcoming event.



Jim Howard speaks to USF Student Branch



Jim Howard with Computer Chapter Chair Indika Pathirage (left) and Student Branch Chair, Victor Basantes (right)



Energy from Thin Air

It's hard to walk around a city and not come across a person talking on a cell phone or a driver using a GPS navigator. In a world that increasingly relies on wireless devices, electromagnetic energy is in the air practically everywhere. A team of researchers at Georgia Tech has found a way to harness that energy and use it to power sensors, microprocessors, and communications chips.

Electromagnetic energy is transmitted from radio and cell phone towers, television transmitters, and satellite communication systems. "It's all around us, but no one has been able to tap into it," says Manos Tentzeris, an IEEE Fellow and professor of electrical and computer engineering at Georgia Tech.

Tentzeris and his team of researchers, including IEEE members Rushi Vyas and Vasileios Lakafosis, have created a self-powered sensor that relies on an ultra wideband antenna to capture energy from the 100 megahertz and greater frequencies generated by all those systems. The scavenged energy is converted from AC to DC, and then stored in a capacitor that gradually fills until the sensor is fully charged. The team has used the antenna to power a number of sensors, including sensors that detect heat and humidity, as well as biosensors that monitor physiological changes in humans. And Tentzeris says that as the technology advances, it has the potential to charge other devices.

"The antenna could easily be made smaller and implanted in a device to charge, for example, a small thin-film lithium-ion battery that may be able to power cell phones and tablet computers," he says.

The team's work was presented in July at the IEEE Antennas and Propagation Symposium link to in Spokane, Wash.

Putting it All Together

To build the antenna and sensors, Tentzeris and his team use a standard inkjet printer to deposit droplets of an emulsion made with conductive nanospheres onto either paper or a flexible polyimide film. The droplets form RF components, including ultra wideband antennas and transmission lines.




To read the rest of the article go to: <http://bmsmail3.ieee.org:80/u/18833/69694>

USF Student Branch and GOLD Picnic

The picnic was October 23rd



Advertising Section

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Web Site Seminar Was A Smashing Success!

On Saturday, October 15th, at the beautiful St. Petersburg Yacht Club Dr. Jim Anderson presented a 3-hour seminar on how to build a web site from the ground up. IEEE member Herman Amaya was the lucky business owner that Dr. Anderson used as an example. Herman has had his own business for several years now, but he had never had the chance (or knowledge) to get around to creating a web site for it.



Dr. Anderson covered all of the ins and outs of the web site creation process, starting with just exactly how one goes about leasing one of those "www" web addresses. He took audience members on a tour of 3 different firms that broker web site names and explained what they needed -- and what they should stay away from!

Next Dr. Anderson showed those in attendance how to find the two types of free software that they would need to set up a web site. Once this software was downloaded, Dr. Anderson went to work setting up Herman's web site

while the audience looked on and asked questions. In the end, Herman had his web site and the audience had learned how they could set up web sites of their own.

Feel free to check out Herman's new web site at <http://www.amhercorp.com/>

The entire presentation was recorded and will soon be available in the FWCS store to anyone who missed this meeting





Florida West Coast Section, Tampa

DATE SENSITIVE MATERIAL. DO NOT DELAY

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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

October 2011 Calendar of Events (For more information see P. 1) *inside this Signal...*

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
30	31	1 <i>EXCOM Meeting at TECO Plaza see page 1</i>	2 <i>Substation Integration, see page 4</i>	3	4	5
6	7	8	9	10	11 	12
13	14	15 <i>RAS Meeting, see page 1</i>	16	17	18	19
20	21	22	23	24 	25	26
27	28	29	30	1	2	3