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This Month’s Meetings
Tuesday, February 4: 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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FLORIDA WEST COAST SECTION

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2014 Congressional Visit Day Registration is Open

IEEE-USA’s annual Congressional Visits Day (CVD) will be held this year on March 25 & 26 in Washington, DC. Any and all IEEE members who are concerned about declining federal investments in basic research, our national labs and our research universities is encouraged to attend.

The CVD offers concerned IEEE members an opportunity to meet directly with your members of Congress and their staff in Washington. This annual event is a crucial part of IEEE-USA’s ongoing efforts to protect federal investments in science and engineering.

These efforts are especially crucial in 2014. After three years of tight federal budgets, Congress is looking for additional programs to cut. Basic research and R&D have so far survived the first few rounds of budget cuts with only modest reductions. But that may be about to change. Programs that the public doesn’t know much about or that can be cut without doing immediate damage to too many people are prime targets. R&D fits the bill perfectly. While R&D is vitally important to America’s long-term economic prosperity, the fact is, should Congress cut the programs, the country won’t feel the impact of these cuts for a few years.

And how many Americans know we have national labs, let alone how they contribute to the country?

If IEEE members want Congress to protect the basic research and R&D budgets, we need to speak up and make sure Congress knows how valuable these programs are to us and our country.

There is simply no better way to get a legislator’s attention than to have a voter come to Washington and ask for the legislator’s support. Especially in an election year.

All IEEE members are welcome and encouraged to attend this year’s CVD. To join your colleagues from across the country, go here to learn more and to register:
http://www.ieeeusa.org/policy/cvd/

If you would like to speak with your members of Congress, but can’t come to Washington, there may be opportunities to hold meetings in your local area. Please contact IEEE-USA staffer Russ Harrison to find out, or if you have other questions about this year’s CVD. Russ can be reached at r.t.harrison@ieee.org or (202) 530-8326.
IEEE-USA’s Free E-Books to Members in February FREE E-BOOK


“A personal introduction, captivating opening, interesting body and compelling conclusion comprise the four major parts of a successful presentation,” Patel writes. “But once you have an organized and well-written presentation, it’s time to shift your focus to delivery by incorporating eye contact, varied voice and fluid body language.”

This e-book will be available to members in February.

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

CALL FOR AUTHORS

IEEE-USA E-books seek authors to write an e-book, or e-book series, on career guidance and development topics. If you have expertise in a particular area that you’re willing to share for the benefit of members, email your proposal to IEEE-USA Publishing Manager Georgia C. Stelluto (g.stelluto@ieee.org) and IEEE-USA E-Book Chair Gus Gaynor (g.gaynor@ieee.org).

IEEE-USA advances the public good and promotes the careers and public policy interests of more than 206,000 engineering, computing and technology professionals who are U.S. members of IEEE.

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Contact: Sharon C. Richardson, Coordinator
IEEE-USA Communications & Publishing
Phone: 1 202 530 8363
E-mail: s.richardson@ieee.org
Power System Harmonics Seminar

Date: Friday, April 4, 2014

Time: Registration: 8:30 A.M. Seminar: 9:00 A.M. - 2:30 P.M.

Speakers: Dr. Ralph E. Fehr III, P.E., Electrical Engineering Department, University of South Florida

Location: Seminole Electric, Florida 33805

RSVP: Online at: http://time2meet.com/fwcs-pes2/index.html
Space limited to the first 40 registrants!!!

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

Cost: $100 Members, $150 non-members, $10 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

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

This seminar examines the causes of harmonics in a power system, the effects of harmonics on power system components, and means of mitigating those effects. Both the utility and the customer perspectives will be addressed. Graphical methods will be used to illustrate concepts to keep the mathematical complexity of this somewhat complicated topic to a minimum.

Speaker Bio: Dr. Ralph Fehr earned his B.S.E.E. degree from the Pennsylvania State University, his M.E.E.E. concentrated in Power from the University of Colorado at Boulder, and his Ph.D. from the University of South Florida. He has been employed in the electric power industry for over 20 years, has done consulting work on power systems, and has conducted a wide variety of power-related training courses worldwide. Dr. Fehr has contributed numerous articles to various trade magazines, and has authored Industrial Power Distribution, published by Pearson Prentice Hall. He is currently a member of the Electrical Engineering faculty at the University of South Florida and is a registered professional engineer.

Robotic & Automation Society March Meeting

You are invited to the Monthly Meeting of the IEEE Florida West Coast Chapter of the (RAS) Robotics and Automation Society. It is every third Tuesday at 6:30pm at the location below under normal conditions.

Location: DeVry University at 5540 W. Executive Drive,
Tampa, FL, 33609
Room: 210
Date: March 18, 2014
Tour of NOAA National Weather Service

Date: Friday, March 28, 2014

Time: Registration: 12 noon to 12:30pm

Tour: 12:30pm to 2pm

Speaker: Daniel Noah, Warning Coordination Meteorologist

Location: NOAA National Weather Service – Tampa Bay Area

2525 14th Ave SE, Ruskin, FL 33570

Cost: $10 (cost for lunch) {non members, $20}.

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

Limitation: Limited to the first 20 that sign up online.

Questions: Tom Blair at 813-630-7008 or tom_blair@ieee.org

Reservations: http://time2meet.com/fwcs-meetings

PES West Coast Chapter invites you to the opportunity to attend a lunch meeting and tour of the National Weather Service Weather Forecast Office in Ruskin on Friday, March 28, 2014. The NWS office in Ruskin consists of the main operations building, WSR-88 D radar, an upper air inflation shelter, and a small maintenance building. NWS offices are open 24 hours per day, 7 days per week. The Tampa Bay Area office covers 15 counties across West Central and Southwest Florida, from Levy County to Lee County and east to Polk and Highlands Counties. The Tampa office also forecasts for the coastal waters adjacent to the coast up to 60 nautical miles from shore.

The local office of the Weather Bureau was established in Tampa in March 1890 to the Gould Building on the corner of Franklin and Madison Streets. The office moved to the Knight Building in 1892 then again in 1904 when it was moved to the new Post Office Building. The airport station was established in 1938 and in 1941 the downtown office in the Federal Building was consolidated with the airport station at Peter O. Knight field on Davis Island. The office left for Drew Field (Tampa International Airport) on June 6, 1946. In 1975, the station moved to Ruskin, southeast of Tampa, on the east side of Tampa Bay.

Ruskin is home to one of the 159 WSR-88D Doppler radars that the National Weather Service maintains around the country. Doppler radar has been one of the most important technological advances in hazardous weather prediction over the past quarter century. Forecasters using the WSR-88D can issue more timely and accurate hazardous weather information than was ever possible before. The radar dome (which is often said to resemble a soccer ball or golf ball) protects a 28 foot wide antenna. The antenna is made up of a transmitter and a receiver. The transmitter samples the environment by sending out a pulse of energy, which reflects off objects (like raindrops) and scatters the energy pulse in all directions. Part of the energy will be reflected back to the antenna and is measured by the receiver.
IEEE USF Chapter is keeping the high flow of student activities for spring 2014! If you want to get involve, learn technical skills, or simply just want to network, IEEE USF Chapter is your answer!

### IEEE USF Chapter 2014 Upcoming Dates

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<td>Officers Meeting</td>
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<tr>
<td>USF Engineering EXPO</td>
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<td>Picnic</td>
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<td>Southeastcon</td>
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<td>IEEE Banquet</td>
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<td><strong>General Body Meeting</strong></td>
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<td>1st</td>
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<td><strong>Workshops</strong></td>
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<td>Labview Intro</td>
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<tr>
<td>Engineering Careers: A Risky Proposition that need not be Risky</td>
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<td>Soldering Intro</td>
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<td>Communication Signal Session</td>
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<td><strong>Tours</strong></td>
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<td>Kennedy Space Center</td>
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**Main Contact Information:**

Chair: Kenneth Almirol Buchanan  
E-mail: aalmirol1@mail.usf.edu

Check out and like IEEE USF Chapter’s website

For more updated activities:

http://sites.ieee.org/sb-usf/

https://www.facebook.com/USF.IEEE

**Address**

University of South Florida  
4202 E Fowler Ave, Tampa, FL 33620

Engineering II Building (South-West Side of Campus)
**EMBS & WIE Join Meeting**

**Topic:** Raspberry Pi Module Introduction

**Date:** Wednesday May 21st, 6 PM

**Location:** Largo STAR Center Corner of Bryan Dairy and Belcher
7887 Bryan Dairy Road Largo, FL 33777

**Abstract:** The Raspberry Pi is a wonderful single board computer that fits in the palm of your hand with over 2 million units delivered. The Raspberry Pi foundation released the Raspberry Pi with the intention of promoting basic computer science education in schools. Due to the affordable price of the boards, between $25 and $25, it has become a powerful tool for hobbyists that want to run a home media center, a VPN, do home automation and a lot more. The Raspberry Pi is slowly turning into a dessert of choice for engineers as they turn them into industrial PCs, ethernet monitoring, and industrial control applications.

In this talk we will cover basics of how to configure and install the operating system and how to run a simple program.

**Speaker:** Isabelle Laureyns is VP of Manufacturing at Fill-Tech Solutions, Inc. in Largo, FL.

**Organizer:** For more specific information please contact:
Chris Lambrecht e-mail: chris.lambrecht@ieee.org, Phone: 727-458-9061
Valerie Tur Phone: 813-334-2317

Cost is $2 for IEEE Member and $4 for Non Members.

Food and beverages will be provided. Please sign up at:

**Reservations:** [http://time2meet.com/fwcs-mtt/index.html](http://time2meet.com/fwcs-mtt/index.html)
March 2014 Calendar of Events (For more information see P. 1)  *inside this Signal…*

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*IEEE EXCOM TECO Plaza 5:30pm*

*IEEE EXCOM Village Inn - 6am*

*Tour of NOA Weather Service*