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THE SUNCOAST SIGNAL

THE INSTITUTE OF ELECTRICAL AND ELECTRONICS ENGINEERS, INC.

This Month's Meetings

*Tuesday, August 2nd: 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, August 16, 2011

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

Risk Management Web Seminar

Speaker Dan Skaar

August 17, 2011

Time: 12-1:00 PM

[Details on page 5](#)

Smart Grid Symposium

Friday, August 26, 2011

Registration 8:30-9:00 AM

Speaker 9:00-3:00PM

Space Limited to 45 Registrants!

[Details on page 4](#)

Upcoming Events

Carbon Management Technology Conference

February 7-12, 2012

[Details on page 6](#)



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This Month...(Editor's Column)

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With much fanfare the 30 year Space Shuttle Program has made its final flight. It is a tremendous accomplishment for all that were involved in its design, manufacture and operation. We witnessed many extraordinary events from the repair of the Hubble Space Telescope, rescue of satellites in orbit and the greatest feat of all, the completion of the International Space Station. It is the most complicated vehicle to ever fly and pushed several technologies to new limits. The program had many detractors however. There were problems with the tiles, insulating foam on the main tanks, the cost of operation, that it never achieved the rate of flights that was envisioned and that it was restricted to low earth orbit. With a follow on vehicle several years away the Russians are hailing the start of the Soyuz Era. It will be the only way to service the space station and we will be entirely dependent on them till the Orion/Aeries Project has completed flight testing. It's Multi-Purpose Crew Vehicle, based on the Apollo capsule will be able to service the space station and do deep space exploration. America needs to maintain its lead in space related technology and science.



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Smart Grid Symposium Back by Popular Demand

Following a successful Smart Grid presentation last year, the FWCS will once more have Randy Dotson, Jason Flynt and Lee Collins representing Lakeland Electric, Progress Energy Florida and Tampa Electric Company at hand to discuss their respective company Smart Grid Vision. They will provide an update on their progress implementing that vision and share intimate details of their plans. It will be an interactive presentation affording you the opportunity to participate and ask questions. In addition there will be a presentation on the impact of Electric Vehicles on the distribution Grid. Four PDH's will be credited for attendees. See page 4 for additional information and to register.



Teacher In Service Report

Dear Friends,

Happy August to all Teachers & Engineers! Hope you had a nice Summertime. I understand a new and exciting School Year is just about to begin for most of you. The following are important announcements for education and engineering around the Tampa Bay Area.

Please continue to browse the Teacher In Service Lesson Plans at these URLs for topics:

<http://www.ieee.org/web/education/preuniversity/home.html> or www.tryengineering.org. We want to assign an engineer to a project that is appropriate for your Science or Math Educators and their students. We encourage that every school examine these lesson plans. After this has been forwarded to the schools in your district, please pick a lesson plan ideal for your class and reply to me at venner20@ieee.org. I can ask and arrange with the schools for Engineers to come and demonstrate a presentation for your school. We ask all IEEE Members and Certified Engineers to volunteer with your local schools. Please let me know if you are volunteering, so that I can provide you with the attached surveys. Please have the teachers fill them out, collect them, scan & email, or mail them back to me. The IEEE is dedicated to helping all the districts get Engineering into Pre-College Curricula. We can arrange to do these anytime at the convenience of the schools and the engineers. We are offering effective and economical alternatives to promote engineering. We hope to inspire the educator to perform these activities themselves while enriching their Students. If the teachers and the volunteers work together, students have a better chance at successful careers. In the long run, it helps "The technological literacy of Tomorrow's leaders." Please contact me anytime during the year to arrange availability of our Engineer Volunteers.

PROFESSIONAL STUDY DAY OPPORTUNITIES

Pinellas Professional Study Day is August 16 at Seminole High School. Ralph Painter is leading multiple presentations including Ohm's Law. Any IEEE member would be welcome to help coach that day.

The Hillsborough Professional Study Day is August 17, 2011, at Alonzo High after 8:30am.

Thank you.

Sean Denny

IEEE FWCS Teacher In Service Chairman

Venner20@ieee.org

727-678-0183



The IEEE Student Branch at USF Seeks Professional Mentors

The IEEE student branch at the University of South Florida is in the process of initiating an IEEE/FCWS mentorship program and is in need of volunteers. 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. This allows for further student involvement within IEEE and the Florida West Coast Section.

If you are interested in participating in the IEEE/FWCS mentorship program, please contact us by email at:

Victor.basantes@ieee.org

Mikel Graves

External Secretary of IEEE USF Student Chapter

Email: mikelgraves@mail.usf.edu



Nominations Open for EMBS Chapter Officers for the 2012 Term

The FWCS EMBS Chapter Nominations Committee is accepting nominations for the offices of Chair, Vice-Chair, Treasurer, and Secretary for the 2012 term. Potential candidates should contact one of the Nomination Committee Members below for more details on the positions and requirements. The slate of candidates for the 2012 term will be advertised in the Signal in November and we plan to hold the elections before the end of the year.

Serge.beauzile@ieee.org

Claude.Pitts-III@pgnmail.com

Nominations Committee





Smart Grid Symposium Back By Popular Demand!

Date: Friday, August 26, 2011
Time: Seminar: Registration 8:30am-9:00am, Speaker 9:00am-3:00pm
Speakers: Jason Flynt, Progress Energy –Lee Collins TECO – Randy Dotson, Lakeland Electric
Location: Seminole Electric, 16313 North Dale Mabry Hwy, Tampa, FL 33618
Cost: \$100 Members, \$150 Non-Members, \$50 Students. (Includes Breakfast & Lunch)
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!!!

Cancellation must be submitted online 24 Hrs prior to the seminar at:
<http://time2meet.com/fwcs-pes1/index.html>
No shows will be invoiced for the total cost of the seminar.

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

Following a successful Smart Grid presentation last year, the FWCS will once more have Randy Dotson, Jason Flynt and Lee Collins representing Lakeland Electric, Progress Energy Florida and Tampa Electric Company at hand to discuss their respective company Smart Grid Vision. They will provide an update on their progress implementing that vision and share intimate details of their plans. It will be an interactive presentation affording you the opportunity to participate and ask questions. In addition there will be a presentation on the impact of Electric Vehicles on the distribution Grid.

A Chevy Volt will be available for a “show & tell” for those interested!

Jason Flynt- Smart Grid Lead Engineer, Progress Energy

Lee Collins - Business Process Consultant, Tampa Electric Company

Randy Dotson - Project Manager for Smart Grid, Lakeland Electric




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IEEE-USA offering Risk Management Seminar Series

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

For details/registration, visit:

<http://www.ieeeusa.org/careers/webinars/2011/Risk-Management.html>



Recent events have highlighted the importance of risks. Modern systems are becoming more complex and the economic, safety and other consequences of a system failure more serious. Managing the risks of disruptive events is becoming a critical focus for business and society. For example, the need for security to mitigate electric reliability risks has been formalized as a regulatory requirement known as NERC Critical Infrastructure Protection (NERC CIP). With the adoption of the Smart Grid, electric utilities have more exposure to risks. Ignoring risks because they are improbable and not worth analysis has proven to be highly risky in itself. Volatility, uncertainty, complexity, and ambiguity ('VUCA') factors drive the consideration of risk. US Statutes and Federal regulations recognize this risk and mandate critical infrastructure protection (CIP) which is driven by risk management.

Risk management is much more than identifying and mitigating technical and operational risks; it can be used to arrive at better solutions and decisions which reduces time and costs. Success comes from managing risks associated with technology adoption and implementation, a project, business decisions, engineering economics, interpersonal interactions, acquiring skills, and career decisions to name a few.

IEEE-USA has organized a 6-part monthly 1-hour web seminar series where you can learn about two of the most critical life skills that engineers and operations professionals need today: 1. Risk-based problem-solving and 2. Risk based, decision-making under uncertainty. The series will focus on the application of risk management frameworks, standards and practices in engineering with a specific focus on cyber security, public safety and critical infrastructure protection (CIP). We have recruited a set of subject matter experts who will teach the seminars. The next seminar in the series is shown below.

Participants will secure the following benefits from the risk management online seminars:

- An understanding of risk management standards, practices, concepts, and tools.
- How risk management can be used to arrive at better solutions and decisions.
- Risk applications in software, controls, security, project management and quality.
- Risk management's role to reduce vulnerabilities and increase security in critical infrastructure including the electric power grid, cybersecurity, IT, the Internet and more.

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.

Paul Kostek, Air Direct Solutions

17-Aug; 12-1 PM

Application of Risk Management During Project Definition



Carbon Management Technology Conference

Call for Abstracts: First-Ever Carbon Management Technology Conference

IEEE-USA is teaming up with seven other engineering societies for the inaugural Carbon Management Conference in Orlando, 7-9 February 2012. The gathering will focus on engineering perspectives on key issues, including technologies, strategies, policies and management systems. Professionals from all engineering disciplines will share expertise on reducing greenhouse gas emissions and adapting to climate change. A call for papers is now open; abstracts are due 18 July.



This inaugural conference draws professionals from all engineering disciplines to share their expertise and provide their perspective on the reduction of greenhouse gas emissions and adaptation to changing climate. The conference will focus on engineering perspectives regarding key issues, including technologies, strategies, policies, and management systems.

Who should attend?

- Engineers of all relevant disciplines
- Researchers and scientists
- Executives
- Agency personnel (international, federal, state, and local)
- Operations and maintenance engineers/managers
- Economists
- Academics
- Regulatory and legal professionals
- Project, technology, and HSE managers
- Suppliers of products and services

The conference will feature presentations by keynote speakers, technical papers, poster presentations, panel discussions, workshops, and an exhibition of companies with services and products for greenhouse gas mitigation and adaptation. Venue: Caribe Royale Hotel and Convention Center, 8101 World Center Drive, Orlando, FL, 32821. Event runs February 7-9, 2010.

Why Exhibit

- Showcase your company's expertise
- Reach professionals interested in the unconventional oil and gas sector of the industry
- Acquire valuable sales contacts
- Meet face-to-face with your clients
- Introduce new technology to a knowledgeable audience

For information on registering for the is event go to: <http://www.carbonmgmt.org/pages/general/registration.php>.
Online registration coming soon!

Check Out the FWCS Online Store!

Have you ever seen a local IEEE seminar that looked interesting, but for some reason your schedule just didn't allow you to attend. Remember what that hollow pit of longing felt like when you read reviews of just how good the seminar was in the next edition of the Signal. There may have been information that was discussed that could have changed your career or for that matter, your life.

It turns out that each of those meetings has been video recorded and now those video recordings are being made available to you for a very low price. Not only do you get access to the video of the complete seminar, but you also get to download copies of all of the presentations and handouts that were distributed as part of the seminar.

How's that for a second chance?

Check out the brand-new FWCS Online store and see if there's something there that you'd be interested in. Go to the FWCS web site (<http://www.ieee.org/fwcs>) and click on "Store" on the top menu to get access to all of the videos that are currently for sale.

Life doesn't give us enough second chances; make the most of this one!

Jim Anderson



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

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