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**THE  
SUNCOAST  
SIGNAL**

*THE INSTITUTE OF ELECTRICAL AND ELECTRONICS ENGINEERS, INC.*

  
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***This Month's Meetings***

***Tuesday, August 3rd: EXCOM Meeting***  
***Meeting starts at 5:30PM At TECO Plaza***  
***Register online at <http://time2meet.com/fwcs-excom/index.html>***  
***Meeting is open to all FWCS Members***

***Life Members Seminar***

***Saturday, August 7, 2010***  
***Location: Red Lobster Restaurant at 62<sup>nd</sup> Ave. North and 34<sup>th</sup> Street***  
***(US 19 North) [Details on page 3](#)***

***Robotics and Automation Society Meeting***

***Tuesday, August 17th, 2010***  
***Meeting Starts at 6:30PM, Social Time Starts at 6PM***  
***Location is Subject to Change***  
***Go to the RAS Page of FWCS Website for Latest Info!***

***Surge Protection Seminar***

***Friday August 20, 2010***  
***Square D Office, Tampa***  
***[Details on page 6!](#)***

***Orange Book Seminar***

***Friday, August 27, 2010 at Seminole Electric***  
***[Details on page 7!](#)***

***Upcoming Event!***

***SmartGridComm 2010***  
***October 4 -6, 2010***  
***<http://www.ieee-smartgridcomm.org>***

## This Month...(Editor's Column)

### 2010 IEEE EXECUTIVE COMMITTEE

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THE SUNCOAST SIGNAL is published monthly by the Florida West Coast Section (FWCS) of the Institute of Electrical and Electronics Engineers, Inc. (IEEE). THE SUNCOAST SIGNAL is sent each month to members of the IEEE on Florida's West Coast. Annual subscription is included in the IEEE membership dues. The opinions expressed, as well as the technical accuracy of authors, advertisers or speakers published in this newsletter are those of the individual authors, advertisers, and speakers. Therefore, no endorsement by the IEEE, its officers, or its members is made or implied.

All material for THE SUNCOAST SIGNAL is due in electronic form by 1<sup>st</sup> Sunday after the 1<sup>st</sup> Tuesday of the month preceding the issue month. Address all correspondence to:

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The news that the oil gushing from the well in the Gulf has finally been capped is more than welcome. I had not been opposed to drilling in the gulf since it has been going on off the coast of Texas and Louisiana for many years. I had assumed that it was safe and that the oil companies would use the appropriate safeguards to prevent spills. Obviously, shortcuts were taken and proper oversight was not done and the result is the largest spill ever. It is truly an engineering marvel that a well could be drilled from a floating platform 5000 feet from the bottom of the gulf. It is even more remarkable that the capping of the well was accomplished with the help of remote sensing and robotic vehicles. However, the effects of this will not be fully known for decades, environmentally and economically. Getting permits to drill more wells will be difficult for U.S. companies and may encourage foreign nations to move in and they may have less safeguards. This has been not a failure of technology and engineering but of the managers of the business.



**Richard E. Beatie, P.E.**  
Director Of Engineering  
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## IEEE-USA Receives Award for Publication Excellence

WASHINGTON (13 July 2010) -- IEEE-USA Today's Engineer Digest was recently honored with a 2010 APEX Award for Publication Excellence. The Digest was one of eight publications selected out of 76 entries in the Magapapers & Newspaper-Print category. It was headed by Editor-in-Chief Terrance J. Malkinson and Managing Editor Georgia C. Stelluto. Recognition is based on "excellence in graphic design, editorial content, and the success of the entry in achieving overall communications effectiveness and excellence." Published in March 2009, IEEE-USA's winning entry was the final issue of Today's Engineer Digest. The magapaper has been replaced by IEEE-USA in Action, an interactive publication that debuted in April. See

[http://www.nxtbook.com/nxtbooks/ieeusa/ieeusa\\_0410/#/1/OnePage](http://www.nxtbook.com/nxtbooks/ieeusa/ieeusa_0410/#/1/OnePage).

IEEE-USA also continues to publish a monthly webzine, IEEE-USA Today's Engineer (<http://www.todaysengineer.org/>). The APEX Awards for Publication Excellence are for professionals who write, edit and manage business communications for a living. They are sponsored by Communications Concepts, Inc., publishers of business communication reports. IEEE-USA advances the public good and promotes the careers and public policy interests of more than 210,000 engineers, scientists and allied professionals who are U.S. members of IEEE. <http://www.ieeeusa.org>



### To all FWC IEEE Life Members,

This is to announce the new updating Seminar on Technology and Applications of Solar Photo Voltaic Energy Systems and Solar Hot Water Heating Systems.

The Date Saturday August 7th

Time: 1130

Place: Red Lobster Restaurant @ 62nd Ave and 34th Street (US 19N)

Dutch Lunch for all attendees and ordering from the menu.

After lunch there will be a Presentation by members of SOLAR SOURCE INC - a principal supplier and educator of these systems.

**PLEASE CONFIRM YOUR INTENTION TO ATTEND THIS MEETING** at

<http://time2meet.com/fwcs-students1/index.html> . We will be in the rear private room as before and I will need to let the restaurant know the number of attendees.

Regards,

**Bob Franklin**

**Chairman: FWCS Life Members Committee**



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## IEEE Congratulates Our 154 New Senior Members!

The last A & A Review Panel meeting was held on 26 June 2010 in Montreal Canada. Gerhard Hancke, Chair of the A&A Committee, would like to thank the panel of Senior Members and Fellows from the Montreal Section who took part in the review process. The report will be available online by weeks end from the Senior Member Update Web page at: [http://www.ieee.org/membership\\_services/membership/senior/new\\_senior\\_members.html](http://www.ieee.org/membership_services/membership/senior/new_senior_members.html) The date of the next IEEE Senior Member Review Panel Meeting is to be determined due to unforeseen circumstances.



## *James M. Howard*

### *Candidate for IEEE-USA President Elect, 2011*

IEEE-USA is facing many challenges in the coming years and each of these challenges will require experienced leadership to coordinate and guide the organization. My experience in many areas of the IEEE, and in particular my in-depth experience on the IEEE-USA Board of Directors, places me in a unique position to help guide IEEE-USA in the challenges. My past tenure on the IEEE-USA Board of Directors as a Director, a Member-At-Large, and as your Secretary/Treasurer has provided me the opportunity to gain the knowledge to lead this organization as we address these challenges. This coupled with my many years of financial experience as IEEE Audit Committee Chair, member of IEEE Finance Committee, and as the IEEE-USA Treasurer has positioned me to gain an overall understanding of where IEEE-USA fits into the overall IEEE structure. Coupling these opportunities with the varied leadership roles in the IEEE I have served in, has given me the background to lead the IEEE-USA through these challenging years ahead and to guide our work in the areas in which IEEE-USA excels. I look forward to the opportunity to serve you as your President-Elect.



**IEEE ACTIVITIES:** (Student Member '81; Member '85; Senior Member '91) <http://www.time2meet.com/Jim-Howard/>

**BIO:** James M. Howard received the BSEE degree from the University of South Florida in 1985. He is currently Manager of Electric System Compliance with Lakeland Electric, a municipal electric company in Lakeland, Florida, where he has worked for over seven (7) years. Currently he is responsible for assuring that Lakeland Electric adheres to all the North American Electric Reliability Corporation (NERC) and Federal Energy Regulatory Commission (FERC) approved Reliability Standards. He joined Lakeland Electric after spending almost 24 years with Tampa Electric Company where he started as a Cooperative Education Student in 1979 and, through the next 23 plus years, held positions in Energy Delivery: Distribution Engineering, South Hillsborough Operations Center, and as Supervisor of Reliability for Transmission and Distribution.

**COMMITTEES/BOARDS:** IEEE Board of Directors 2002-03. IEEE-USA Board of Directors, 2005-10: Secretary Treasurer, 2007-10, Member-At-Large, 2005-06. Region 3 Director, 2002-03. Region 3 Coordinator 2006-09. IEEE Audit Committee, Chair, 2003, Member 2002-04. IEEE Nominations and Appointments Committee (N&A) , 2004-05; RAB N&A Committee, 2004-05; IEEE Membership Development, Chair, 1998-99. Regional Activities Board, Membership Activities, Vice Chair, 1998-99.

**REGION:** Region 3: Director 2002-2003; SPAC Chair, 2005-10; Strategic Planning Committee, 2005-10; Section's Congress Coordinator, 2007-2010; Area 4 (Florida Council) Representative, 1993-94; Membership Development Chair, 1996-97; Conference Committee, Chair, 1998-99.

**COUNCIL:** Florida Council: Chair, 1993-94; Vice Chair, 1992; Junior Past Chair, 1995; Membership Development Chair, 1994-2010.

**SECTION:** Florida West Coast Section: Chair, 1991-93; Vice Chair, 1990-91; Membership Development, Chair, 1994-98; Student Branch Mentor, 1997-2010.

**CHAPTER:** FWCS PE/IA Chapter Chair, 1990-91; Vice Chair, 1989 & 2010; Secretary/Treasurer, 1988.

**SOCIETIES:** Aerospace and Electronic Systems Society (AESS) Vice-President Member Affairs, 2005-10. Power Engineering Society (PES): Membership & Chapters, Vice President, 1997-98; Chapters Council, Chair, 1996; Membership Development, Chair, 1995; Membership Statistics Sub-Committee, Chair, 1994; Meetings Department, Secretary, 1994-98; Chapters Congress, Speaker, 1995; Distribution Design Committee, 1997-99.

**CONFERENCES:** PES General Meeting Chair, 2007; IAS Annual Meeting Vice-Chair, 2006; Sections Congress (SC) '05, Steering Committee, Chair, 2003-05; Industrial & Commercial Power Systems (I&CPS), Vice-Chair, 2004, 2000; Publications, Chair, 1993; Region 3 SoutheastCon, Chair, 1996; Power Engineering Society Winter Meeting, General Chair, 1998; SouthCon, Director, 2004, 1995-99, Treasurer, 1998.

**AWARDS:** Florida West Coast Section Engineer of the Year Award, 2006. Florida Council Outstanding Engineer Award, 2006; Region 3 Director's Award - Section's Congress, 2005; Florida West Coast Section PES Chapter Outstanding Engineer, 2000; Power Engineering Society Chapters Council, 1998; Region 3 Outstanding Service, 1996; Florida Council Outstanding Service, 1995.



## Marc T. Apter

### Candidate for IEEE-USA President-Elect, 2011

The IEEE-USA is our National Professional Organization, and it is a great organization. It has goals to be a greater organization, but you and I can't accomplish all its goals by ourselves, we must team with other Professional Organizations. As a Doer I can do this. I find good ideas and grow them into accomplishments. I have helped over the years to successfully accomplish the following as an IEEE volunteer:

- myIEEE
- IEEE.tv
- Development of a Seed Grant part of the New Initiatives Program
- Helping lead SC 2002 & 2005, the two best Sections Congresses yet held
- The Changes/Simplification of the IEEE Membership application procedures
- Bringing new people forward as candidates for elected and appointed positions
- The Student Ethics Competitions
- Pre-University IEEE Clubs
- The formation of the Career Services Committee
- The Blue Ribbon Committee in 2000's proposal for a Member Benefit Organization
- First Chapters Chair of IEEE Social Implications of Technology Society in 1982-85
- First Professional Activities Chair of SSIT in 1982-85
- Northern Virginia/Baltimore/Washington SSIT Chapter Founding Chair in 1982-84

*"I will continue to take good ideas and grow the IEEE-USA for the future."*

**IEEE Activities** – (Student Member '63; Member '65; Senior Member '82) [www.marcapter.com](http://www.marcapter.com)

**BIO:** Marc Apter received his BSEE (Electronics) Degree from The Pennsylvania State University (1964). He served in the U.S. Navy as Electronic Material Officer (EMO) aboard the USS BROOKE (DEG-1) and as EMO and Instructor at the Fleet Training Center, Mayport, Florida. He then worked for the U.S. Navy's Naval Sea Systems Command (NAVSEA), for 11 years, with the responsibility for installation of various electronic and other systems, followed by five years with the Chief of Naval Material, developing Electronic Maintenance Policy.



For the 15 years until he retired, he worked at NAVSEA again, first managing its Metrology and Calibration Program, then managing the Navy's Maintenance and Configuration Management Programs, and finally as the Command Information Systems Security Manager and Head of the Information Technology Operations and Maintenance Branch. He is currently a Senior Information Assurance Specialist for URS Corporation, in Dahlgren, Virginia, developing security documentation for U.S. Government systems.

**COMMITTEES/BOARDS:** IEEE Executive Committee, 2004-05. IEEE Board of Directors, 2004-05, 2001-02. Member and Geographic Activities Board (MGAB), Past Chair, 2009. MELCC Chair, 2008; vTools Committee, 2007-2010. Regional Activities Board (RAB): Vice President, 2004-05; Past Chair, 2006-07; Member Activities, Vice-Chair, 2003; Region 2, Director, 2001-02. IEEE Ethics and Member Conduct Committee, Member, 2003-04. Information Technology Strategy Committee (ITSC), Member, 2006-07. IEEE-USA: IEEE-USA Critical Infrastructure Protection Committee, Chair, 2009-10; IEEE-USA Government Fellows Committee, Chair, 2010; IEEE-USA Nominations & Appointments Committee, Member, 2004; IEEE-USA Board of Directors, 2001-02; IEEE-USA Liaison Representative to the IEEE Ethics Committee, 1997-98; Admission and Advancement Committee, Member, 1990-94; TAB/USAB U.S. Technology Policy: Chair, 1992-93; Member, 1988-93, 1982-85; USAB Employment Assistance, Member, 1987-89; USAB Environmental Quality, Chair, 1984, 1978-85; USAB Ethics: Chair, 1994; Member, 1989-95.

**REGION:** Region 2: Parliamentarian & Bylaws Chair, 2008-2010; Life Member Coordinator, 2010; Past Director, 2003-04; Director, 2001-02; Director-Elect, 1999-2000; Treasurer, 1994-98.

**COUNCIL:** National Capital Area Council, Chair, 1990-91.

**SECTION:** Northern Virginia Section: Director, 2010; Chair, 1987-88.

**SOCIETIES:** Society on Social Implications of Technology: Treasurer, 1985-93; AdCom, 1982-93; Chapter Chair, 1982-85; Professional Activities, Chair, 1982-85. **COUNCIL:** Nano Technology Council, Secretary, 2007-10.

**CHAPTER:** Northern Virginia/Baltimore/Washington Society on Social Implications of Technology Chapter, Founding Chair, 1982-84.

**STUDENT BRANCH:** Pennsylvania State University, Member, 1962-64.

**CONFERENCES:** U.S. Technology Policy Conference: Finance Chair, 1984; Session Coordinator, 1989. AAES Government Affairs Conference, IEEE Sessions Chair, 1991-93.

**REPRESENTATIVE:** AAES Coordinating Committee on Environment, 1984.

**AWARDS:** James F. Strother Meritorious Service Award, 2006. IEEE Millennium Medal, 2000. IEEE Centennial Medal, 1984.





**Date:** Friday, August 20, 2010  
**Time:** Meeting: 11:30am-01:00pm (includes Lunch)  
**Cost:** No Cost to Members, \$20 for Non-Members  
**Speaker:** Jerry Beasler, Director of Business Development -  
 Schneider Electric Surge Protection Business  
**Location:** Square D Office  
 5110 Eisenhower Blvd , Suite 350  
 Tampa, FL 33634  
**RSVP:** Online at: <http://time2meet.com/fwcs-pes3/index.html>  
 Space limited to the first 30 registrants!!!  
**Questions:** Valerie Tur 813-541-3086 or Valerie.Tur@moxa.com  
**This lunch program will focus on the following:**

**Outline**

1. Surge Protection Overview
2. The Effects of Transients on US Business
3. Where surges come from
4. What is a Transient Surge
5. How Surge Protective Devices Work
6. Implementing Surge Protection
7. Codes and Standards Update

***About the Speaker -***

**Jerry Beasler, Director of Business Development**

Jerry has been with Schneider Electric in the Power Business for 38 years in all aspects of manufacturing, research, development, and marketing. In 2008 he joined the Surge Protection Business as the Director of Business Development. In his current Capacity he heads up their Marketing /Sales Team, and Application Engineering. They provide all the training both internal, external and provide technical assistance to all customers.



***TIS Professional Study Day***

With the upcoming school year approaching fast, it is now time to finalize plans for the 2010 Hillsborough County Public Schools Secondary Science Teachers Professional Study Day. This event is scheduled for Wednesday, August 18, 2010, at Alonzo High School in Tampa, Florida. Many community and business partners supported our teachers through participation last year, which was also held at Alonzo High with over 450 teachers in attendance. This year we have elected to keep the same successful format, which includes concurrent sessions throughout the day and a mall lunch for our partners to display information regarding products and services.

We will again offer three different opportunities for participation for our community and business partners: 1) facilitation of a concurrent session (or sessions) during the event, 2) table display during our mall lunch for teachers, and/or 3) financial contribution to the teacher lunch. The logos of our community and business partners who pledge financial support will again be proudly displayed in our full-color program.

***Larry R. Plank, Ed. S.***

***Secondary Science Supervisor  
 Hillsborough County Public Schools  
 (813) 272-4405 (office)***



***IEEE Standard 446***  
***Recommended Practice for Emergency and Standby Power Systems (The Orange Book)***

**FWCS IEEE Color Book Seminar Series**

**Date:** Friday, August 27, 2010

**Time:** 9AM-4PM

**Speaker:** Andrew Hernandez, P.E.

**Location:** Executive Conference Room

Seminole Electric Company

16313 North Dale Mabry Highway

Tampa, Florida

**Cost:** \$125 IEEE Member / \$175 IEEE Non member, (Includes lunch.)

**RSVP:** <http://time2meet.com/fwcs-pes2/index.html>

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**John Stankowich, IEEE PES/IAS Treasurer**

2593 Forest Run Ct.

Clearwater, FL 33761-3716

**Space is limited to first 45 registrants.**

6 PDH's will be awarded for the successful participation of attendees.

Questions: Jim Beall, 727 376 2790, [j.beall@ieee.org](mailto:j.beall@ieee.org)

**Your local IEEE PES/IAS chapter is offering this seminar on IEEE Std- 446 Recommended Practice for Emergency and Standby Power Systems, The Orange Book,**

**as part of a series of seminars based on the IEEE Color Books.**

**Please come and benefit yourself and the industry with this excellent class – sellout attendance is key to continue bringing the color book guest speakers here to Tampa Bay.**

The demand for continuous, reliable, high-quality electric power is critical. Many installations require uninterrupted power that is virtually free of frequency excursions and voltage dips, surges, and transients. However, the nature of electric power failures, interruptions, frequency excursions, and voltage dips, the duration of which can span a wide range in time, may be due to elements out of human control. The *IEEE Orange Book* was developed to provide guidance to industrial users and suppliers of emergency and standby power systems.

The *IEEE Orange Book* presents the recommended engineering practices for the selection and application of emergency and standby power systems. It provides commercial and industrial facility designers, operators, and owners with guidelines for ensuring uninterrupted power. In this aspect, the *IEEE Orange Book* addresses the uses, power sources, design, and maintenance of emergency and standby power systems. Practically all aspects of emergency power are addressed by the *IEEE Orange Book*. A general discussion of the needs for, and the configuration of, emergency and standby power systems is given. The *IEEE Orange Book* also lists the power needs for specific industries and deals with the selection of power sources. Recommendations are also given for protecting both power sources and switching equipment during fault conditions, for the design of system grounding, and for designing to reliability objectives.



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 Or fax your address changes to (732) 562-5445

August 2010 Calendar of Events (For more information see P. 1) *inside this Signal...*

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15	16	<b>17 RAS Meeting, see page 1</b>	18	19	<b>20 Surge Protection Seminar, see page 6</b>	21
22	23	24	25	26	<b>27 Orange Book Seminar See page 7</b>	28
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