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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 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

Substation Commissioning Seminar

Friday, November 12, 2010

Seminole Electric, 16313 North Dale Mabry

[Details on Page 6!](#)

Robotics and Automation Society Meeting

Tuesday, November 16th, 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!

Upcoming Event!

Great American Teach-In

November 18 2010

[Details on page 7](#)



This Month...(Editor's Column)

2010 IEEE EXECUTIVE COMMITTEE

FLORIDA WEST COAST SECTION

CHAIR: Jim Anderson (813) 425-2467
jim.anderson@ieee.org

VICE CHAIR: Serge Beauzile, Lakeland Electric,
(863) 834-6511 serge.beauzile@ieee.org.

SECRETARY: Ralph D. Painter, Esq., rdpainter@ieee.org (813) 228-4685

TREASURER: Dr. Paul Schnitzler (813) 974-5584
pauls@eng.usf.edu

SIGNAL EDITOR: Richard A. Sanchez,
Phone (813) 239-3849 rsancz@verizon.net

AWARDS & BYLAWS : Richard Beatie, PE, Lightning Master
(727) 580-3598 r.beatie@ieee.org

EDUCATION: Dr. Rudolf E. Henning and Zhen Tong
(813) 974-4782 or (727) 328-8777 (Ext: 333)
henning@eng.usf.edu or tong@ieee.org

MEMBERSHIP: Glenn H. Davis, ghdavis@ieee.org, (727)389-6184.

TEACHER IN-SERVICE: Sean Denny: Venner20@ieee.org
(727) 678-0183

PES/IAS CHAPTER: Serge Beauzile, Lakeland Electric,
(863) 834-6511 serge.beauzile@ieee.org

MTT/AP/ED CHAPTER: Ken A. O' Connor
kenoconnor@ieee.org

COMP/AESS CHAPTER: James S. Lumia (813) 832-3501,
jlumia@ieee.org

EMBS: Engineering in Medicine & Biology: Dr. Ravi Sankar:
813-974-4769 sankar@eng.usf.edu

SP/COMM CHAPTER: Hector Martinez, abelhect@hotmail.com

WIE: Women in Engineering: Valerie Tur, (813) 840-3454,
Valerie.tur@tawinc.com

LIFE MEMBER AFFINITY GROUP: Bob Franklin
boatseven@aol.com

GOLD: Tim Doolittle, tdoolittle@tmdvault.fastmail.fm

PACE: Tim Donovan (813)991-5656,
tim.donovan@aim4best.com

STUDENT BRANCH CO-ADVISORS:
Dr. Paul Schnitzler, USF PS&A (813) 974-5584
pauls@eng.usf.edu

Dr. Ralph Fehr, USF, (813) 760-7204, fehr@eng.usf.edu
Dr. Srinivas Katkooori, USF, (813)-974-5737 katkooori@ieee.org

STUDENT BRANCH MENTOR: Jim Howard, Lakeland Electric
(863) 834-6585 j.howard@ieee.org (H) (813) 876-1748

STUDENT BRANCHES:

Alex Dunbar, Chair USF Student Branch alex.dunbar@ieee.org
(603) 303-3379

Joseph Easey Vice Chair USF Student Branch
jeasey@mail.usf.edu (941) 539-2587

CONFERENCES: Jim Beall, j.beall@ieee.org

WEB PAGE: <http://www.ieee.org/fwcs>

WEB MASTER: Claude Pitts, III, Claude.Pitts-III@pgnmail.com

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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. Address all correspondence to:

Richard A. Sanchez
1018 Berry Avenue
Tampa, FL 33603
Home Phone 813-239-3849
E-MAIL: rsancz@verizon.net
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I am always promoting the benefits in the workplace of participating in Toastmasters and I recently read an article in Toastmasters Magazine about a family in Canada that shared extreme mountaineering as a sport. One is a Mechanical Engineering student. His name is Mike Mallory (no relation to George Mallory of Everest fame) and he joined Toastmasters while in college to help improve his communication and leadership skills. After conquering Everest he was in demand to tell others of his experiences and to be a motivational speaker. His current employer pays him to speak at corporate events on leaderships topics. The story is in the October issue of Toastmaster Magazine and is available online at <http://www.malloryexpedition.com>.



Richard E. Beatie, P.E.
Director Of Engineering
Structural - Bonding/Grounding - Surge

1351 N. Arcturas Ave. (800) 749-6800 Voice
Clearwater, FL 33765 (727) 580-3598 Cell
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DARPA Grants for Robotics

The Defense Advanced Research Projects Agency (DARPA) is participating in a joint solicitation with the National Institutes of Health (NIH), National Science Foundation (NSF), United States Department of Agriculture (USDA) and the Department of Homeland Security to encourage the development of technologies that will advance the field of robotics.

Please Note: This joint SBIR solicitation is hosted through NIH; therefore, proposals must follow and be submitted in accordance with the NIH solicitation instructions. Small Businesses who wish to respond to this solicitation need to register with grants.gov (<http://www.grants.gov/>) and NIH's ERA Commons System (<http://commons.era.nih.gov/>). Potential offerors who are not yet registered with Grants.gov should allow ample time for the registration process (which can take up to four weeks).

Scientific interests for this joint-agency FOA include, but are not limited to, research directed towards innovations or advancements in robotic technologies and devices for: Robotics for Home Healthcare, Personalized Care for Special-needs Populations, and Robotic Wellness/Health Promotion; Robot-Assisted Recovery, Rehabilitation, and Behavioral Therapy; High-throughput Robotics Technologies; Better Than Biology Actuators; Patient Mobility and Rehabilitation Robotics; Dexterous Manipulators with Tactile Feedback; Multi-Agent Command, Coordination, and Communication; Robotic Co-Worker Assistive Technologies; robotics to render improvised explosive devices safe; and robotics for cross border tunnels. Specific areas of interests under this FOA are described under Section I (available here:

<http://grants.nih.gov/grants/guide/pa-files/PAR-10-279.html#example>).

Information on this solicitation may be found here: <http://grants.nih.gov/grants/guide/pa-files/PAR-10-279.html>

Key Dates

Posted Date - September 14, 2010

Open Date (Earliest Submission Date) - November 20,

2010 Letter of Intent Due Date - November 20, 2010

Application Due Date(s) - December 20, 2010, by 5:00 PM local time of applicant organization.

Scientific Merit Review - Feb-Mar 2011

Advisory Council Review - August 2011 (Applicable to NIH Only) Earliest Start Date(s) - September 2011

Expiration Date - December 21, 2010

George H. Schott

Tampa Bay IEEE RAS Chapter Chairman

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C (727) 692-6440



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Florida West Coast Section Officer Nominees for 2011

The following are the nominees for officers for the FWCS for 2011:

Chair – Serge Beauzile

Vice-Chair – Claude Pitts III

Secretary – Ralph Painter

Treasurer – Paul Schnitzler

FWCS PE/IA Chapter Officer Nominees for 2011

The following are the nominees for officers for the FWCS PE/IA Chapter for 2011:

Chair – Serge Beauzile

Vice-Chair – Jim Howard

Secretary/Treasurer – John Stankowich



James M. Howard is 2011 President Elect!

James M. Howard
2011 President-Elect
IEEE-USA

Manager, Electric System Compliance
Lakeland Electric
Lakeland, Florida USA
www.time2meet.com/Jim-Howard/



James M. Howard received the BSEE degree from the University of South Florida, in Tampa, Florida. He is currently Manager of Electric System Compliance with Lakeland Electric, a municipal electric company in Lakeland, Florida, where he has worked for almost eight years. Currently he is responsible for assuring that Lakeland Electric adheres to, and meets compliance with all 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.

Mr. Howard is a member of the IEEE Power and Energy Society, Industry Applications Society, and is currently serving on the Board of Governors as Vice-President of Membership for the IEEE Aerospace Electronic Systems Society and also a Senior Member.



Tampa Bay Engineers Week Banquet Coming Soon!

"Engineers Make a World of Difference"

We are pleased to announce that the **Tampa Bay Engineer's Week Banquet will be held February 25, 2011** at A la Carte Pavilion. Please join us at this elegant gathering to celebrate the 61st National Engineer and to recognize many contributions made to society by those in the engineering profession.

The evening will feature fine dining, guest speaker **Ken Johnson Director, FIRST Tech Challenge, (FTC)**, and an exhibition room for vendors. And we are expecting as many as four hundred or more attendees including 250-300 engineers, so you will have plenty of opportunities to meet with friends and colleagues in the Tampa Bay technology community.

In keeping with the spirit of the event, awards will be given to accomplished engineers in each engineering discipline and to local university students who excel in engineering related studies. We will also be honoring select local high school educators with the Lignell Award for their outstanding instruction in the area of science, technology, engineering and mathematics.

We hope you will consider being part of this outstanding event to recognize those in the Tampa Bay area who are doing so much to promote engineering.

Cost: \$65.00 per person. (\$55.00 if purchased through IEEE)



Are You Ready for Senior Membership?

Senior Membership is the highest grade for which application may be made and shall require experience reflecting professional maturity; a candidate shall be an engineer, scientist, educator, technical executive, or originator in IEEE-designated fields in professional practice for at least ten years and shall have shown significant performance over a period of at least five of those years. An application for Senior Membership requires three references unless nominated by a Senior Member, and in that case requires two references.

Ten years of professional experience

Your educational experience is credited toward that time as follows:

- 3 years for a baccalaureate degree in an IEEE-designated field;
- 4 years if you hold a baccalaureate and masters degree;
- 5 years if you hold a doctorate.

Five years of significant performance

- Substantial engineering, responsibility or achievement.
- Publication of engineering or scientific papers, books, or inventions.
- Technical direction or management of important scientific or engineering work with evidence of accomplishment.
- Recognized contributions to the welfare of the scientific or engineering profession.
- Development or furtherance of important scientific or engineering courses that fall within the IEEE designated fields of interest.
- Contributions equivalent to those of the above in such areas as technical editing, patent prosecution or patent law, provided these contributions serve to advance progress substantially in IEEE designated fields.

Benefits of Senior Membership

- **Recognition:** The professional recognition of your peers for technical and professional excellence.
- **Senior Member Plaque:** Since January 1999, all newly elevated senior members have received an engraved Senior Member plaque to be proudly displayed for colleagues, clients and employers to see. The plaque, an attractive fine wood with bronze engraving, is sent within six to eight weeks after elevation.
- **US\$25 Coupon:** IEEE will recognize all newly elevated senior members with a coupon worth up to US\$25. This coupon can be used to join one new IEEE society. The coupon expires on 31 December of the year in which it is received.
- **Letter of Commendation:** A letter of commendation will be sent to your employer on the achievement of senior member grade (upon the request of the newly elected senior member).
- **Announcements:** Announcement of elevation can be made in section/society and/or local newsletters, newspapers and notices.
- **Leadership Eligibility:** Senior members are eligible to hold executive IEEE volunteer positions.
- **Ability to Refer Other Candidates:** Senior members can serve as a reference for other applicants for senior membership.
- **Review Panel:** Senior members are invited to be on the panel to review senior member applications.



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IEEE Senior Membership?

Apply Now at

http://www.ieee.org/membership_services/

[membership/senior/index.html](http://www.ieee.org/membership_services/membership/senior/index.html)



Substation Commissioning Seminar

Date: Friday, November 12, 2010
Time: Seminar: Registration 8:30am-9:00am, Speaker 9:00am-3:00pm
Speaker: Alberto Gutierrez, Doble Engineering and Ghaff Khazami and Nelson Barbeito – Megaway Inc. Consulting Engineers
Location: Seminole Electric, 16313 North Dale Mabry Hwy, Tampa, FL 33618
Cost: \$100 Members, \$150 Non-Members, \$50 Students. (Includes Lunch)
PDH Credit 5 professional development hours will be awarded. Be sure to enter your name and PE number on the signup website as it appears on your license.
RSVP: Online at: <http://time2meet.com/fwcs-pesX/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-pesX/index.html>

No shows will be invoiced for the total cost of the seminar.

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

TOPICS:

- Substation Design process and equipment selection
- Substation Commissioning process
- Surge Arrester Testing
- Transformer Testing
- Current Transformer Testing
- Circuit Breaker Testing
- Power Transformer Testing
- Shunt Reactor Testing
- Capacitor Bank Testing
- Protective Relaying Testing
- Substation Grounding Design and Testing

Ghaff Khazami is a Senior Member of IEEE, former PES/IAS Chairman for FWCS of IEEE and Vice-President of Megaway Inc. Consulting Engineers in Tampa. Ghaff is an alumnus of the University of South Florida, Electrical Engineering. He is a registered Professional Engineer in the states of Florida, Georgia, and Wisconsin. **Alberto Gutiérrez** (M 1973) has a BEE (Bachelor of Electrical Engineering, 5 year program) from the City College of New York, a Master of Science from Columbia University and a Certificate of the Power System Engineering Program from GE (Schenectady, NY).

Has 26 years of experience in the power industry, including electric utility companies, consulting engineering companies and teaching in universities of the USA, Colombia and México.

Nelson Barbeito graduated from Christian Brothers University in Memphis Tennessee 1968 after which he started his career with one of the major Power Utilities in the State of Florida. During his tenure Mr. Barbeito's assignments included bulk power and distribution substation projects, including the first 500 kV substations in the State.



Did You Miss It?

On Thursday, October 21, 2010, the local PE/IA and EMBS chapters jointly sponsored a tour of the Tampa LabCorp Facility. There were 14 attendees at the event.

If you have ever had your Doctor order a blood test here in Florida, there is a chance that your blood samples were delivered here, or to one of the 150 LabCorp sites throughout the state, for testing. This facility processes samples from Florida, Mexico, and the Caribbean, and mostly within a 24 hour period.



Dr. Thomas Herman, the facility's Technical Director, guided the attendees through the process from Accessioning, through some of the tests that your Doctor may have ordered. (CBC-Complete Blood Count, Blood Glucose, and Blood Enzyme tests, to name a few).

The Tampa LabCorp facility is the headquarters for the Florida region and processes approximately 35,000 samples every day, on a 24/7 schedule, using very sophisticated, sensitive, and highly automated equipment from companies like Siemens, Beckman-Coulter, Sysmex, and others, each with specialized infrastructure and utility requirements.

Dr. Herman said that the trend towards automation has been driven, in part, by the anticipated retirement of 50% of the Medical Technologists in the next 5 years. In addition to the obvious process improvements that automation provides, it is interesting to know that automation has also resulted in the 1000x reduction in the required sample size for some tests; from 5 milliliters, down to 5 micro liters.

Special thanks to Dr. Herman and to one of our members, Al, who brought in a prescription from his Doctor and actually had blood drawn at the start of the tour.

John West
FWCS EMBS Treasurer
727-743-2267



Teacher in Service Update

Dear Friends,

Please review the request below for volunteers in Hillsborough County at Miles Elementary School.

Hi there!

I believe you attended out Great American Teach In at Miles either last year or the year before.

If you are interested or have individuals who would come again to Miles we would greatly appreciate it! We are a K-5th grade Elementary school located between Fletcher and Fowler right off of Florida Ave.

Please let me know if you would be interested again for this school year on November 18th.

Sincerely,

Debra Mora

Guidance Counselor

Miles Elementary

Ph. (813) 975-7337

debra.Mora@sdhc.k12.fl.us

The Great American Teach-In will be **November 18th**. Hillsborough County Schools provided me with the necessary application forms for their district. Coordinators must turn in their request forms no later than November 5th. If there is any other School district that needs to provide their Great American Teach-In applications, please forward them to me at your earliest convenience. We ask all IEEE members and Certified Engineers to volunteer with your local schools. Please check out www.tryengineering.org and arrange with the above point of contact on what you can do. Please let me know if you are volunteering so that I can provide you with IEEE surveys that need to be given and collected. The IEEE is dedicated to also helping your districts as well.

Thank you.

Sean Denny

IEEE FWCS Teacher In Service Chairman

Venner20@ieee.org

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

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
31	1	2 <i>EXCOM Meeting at TECO Hall</i>	3	4	5	6
7 <i>Daylight Savings time ends</i> 	8	9	10	11	12	13
14	15	16 <i>RAS Meeting, see page 1</i>	17	18 <i>Great American Teach In, see page 7</i>	19	20
21	22	23	24	25 <i>Thanksgiving</i> 	26	27
28	29	30	1	2	3	4