



**The Florida West Coast
Section of the IEEE**
Serving over 2,300 members in Charlotte,
Citrus, DeSoto, Hardee, Hernando,
Hillsborough, Lee, Manatee, Pasco, Pinellas,
Polk, and Sarasota Counties



THE SUNCOAST SIGNAL

THE INSTITUTE OF ELECTRICAL AND ELECTRONICS ENGINEERS, INC.

Volume 60— No. 5 <http://www.ieee.org/fwcs> **May 2015**



Inside This Signal...

Page 2

** Jim Howard has received the
coveted Region 3 Dan Jackson
Award*

Page 3

**IEEE-USA's Free E-Book to
Members Guides Entrepreneurs in
Competitive Analysis*

Page 4

**Security Presentation from Cisco
*IEEE Computer Society
Conference – Local Computer
Networks (LCN)*

**3D Printing Introduction*

Page 5

** Mulrennan Middle School FLL
Robotics Team Invited to
represent Florida in an
International STEM Competition*

Page 6

** What is the IEEE-USA MGM
Program, and how does it work?*

Page 7

** MILCOM 2015*

**Advertising Section*

Page 8

**Calendar*

This Month's Meetings

***Tuesday, May 5: EXCOM Meeting, 5:30PM at TECO Plaza
Register online at <http://time2meet.com/fwcs-excom/index.html>***

Open to all FWCS Members

***Jim Howard has Received the coveted Region 3 Dan Jackson Award
[Details on page 2](#)***

***IEEE-USA's Free E-Book to Members Guides Entrepreneurs in
Competitive Analysis***

[Details on page 3](#)

***IEEE Computer Society presents: Security Presentation from Cisco
IEEE Computer Society Conference - Local Computer Networks (LCN)
3D Printing Introduction***

[Details on page 4](#)

***Mulrennan Middle School FLL Robotics Team Invited to Represent
Florida in an International STEM Competition***

[Details on page 5](#)

What is the IEEE-USA MGM Program, and how does it work?

[Details on page 6](#)

***MILCOM 2015
Advertising Section***

[Details on page 7](#)

Calendar

[Details on Page 8](#)

2014 IEEE EXECUTIVE COMMITTEE FLORIDA WEST COAST SECTION

CHAIR: Claude Pitts claudepitts@ieee.org

VICE CHAIR: Chris Lambrecht, chris.lambrecht@ieee.org

SECRETARY: Sean Denny, venner20@ieee.org, 727-678-0183

TREASURER: Jim Howard, Lakeland Electric (863)834-6585
jhoward@ieee.org

SIGNAL EDITOR: Donna Howard, Serge Beauzile
Phone (813) 207-7966 dhoward@frc.com

Serge.beauzile@ieee.org

AWARDS & BYLAWS : Richard Beatie, PE,
r.beatie@ieee.org

MEMBERSHIP: Jim Howard, Lakeland Electric (863)834-6585
jhoward@ieee.org

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: Jing Wang jingw@usf.edu

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

EMBS: Engineering in Medicine & Biology: John West: 727-743-2267,
john.west@ieee.org

ROBOTICS and AUTOMATION SOCIETY, Sean Denny, Venner20@ieee.org

SP/COMM CHAPTER: Chris Lambrecht

chris.lambrecht@ieee.org

WIE: Women in Engineering: Valerie Tur, (813) 334-2317, VLT4@cornell.edu

LIFE MEMBER AFFINITY GROUP: Glen Cock

gcock@tampabay.rr.com, 813-689-4765

GOLD: Victor, Basantes

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

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

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

STUDENT BRANCHES:

T.J Ross, @mail.usf.edu

CONFERENCES: Richard Beatie, PE,

r.beatie@ieee.org

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

WEB MASTER: Claude Pitts, III, cpitts7@tampabay.rr.com

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 1st Sunday after the 1st Tuesday of the month preceding the issue month.

Address all correspondence to:

Donna Howard
3133 W Paris Street
Tampa, FL 33614-5964
Home Phone 813-876-1748
E-MAIL: dhoward@frc.com
The Signal, Copyright 2014

Jim Howard has Received the coveted Region 3 Dan Jackson Award

IEEE Region 3, which covers the entire southwest area of the US, has bestowed their Daniel W. Jackson Award on past Region 3 Director, Jim Howard. The Dan Jackson Award was established "To recognize a Past Director of Region 3, who, through continuing service to the Region and to the Institute, has made exemplary contributions to the electro technology profession. This award is known as the "Daniel W. Jackson Award" in honor of the first recipient of this award and whose service to Region 3 following his term as Region 3 Director serves as a model for other Past Directors to emulate."

Jim received the award at the April 11th IEEE SoutheastCon Award Dinner in Ft. Lauderdale. Jim's award is inscribed with: "For sustained IEEE leadership and service both inside and outside of Region 3, advancing the interests of both IEEE membership and the larger profession."

Jim continues to serve Region 3 and is a member of the Region 3 Executive Committee. Jim also serves IEEE in many other capacities, including as a sitting member of the AES Society Board of Governors.



Mary Ellen Randall, the current IEEE Region 3 Director, presents the IEEE Region 3 Dan Jackson Award to Jim Howard at the April 11, 2015 Region 3 Awards function in Fort Lauderdale, Florida.

The IEEE Florida West Coast Section needs your Help!

We are looking for a volunteer who want to invest just a few hours a month to be the new Signal Editor. Basic word processing knowledge and willingness to Help! If interested, please send an email to dhoward@frc.com.

Please participate in your section success!



IEEE Computer Society presents: Security Presentation from Cisco

TECO Hall, 702 Franklin St Tampa, Florida – June 30, 2015 at 6:30

Every day, new news of cyber intrusions, exploits, and attacks comes to light, from Hackers to Hacktivists. The most sensitive sectors, from Energy to Defense to Finance, are often the targets. Threat actors have engaged in brazen activity, from computer network exploitation (CNE) to computer network attack (CNA). At the end of the day, however, the best deterrent, irrespective of the threat or threat actors, is the ability to recover and bounce back quickly. Understanding and deconstructing the high end threats in their many permutations and combinations is daunting but resources and capabilities to address these challenges are available.

Join us as Cisco provides an overview of the state of cyber security.

Contact: Jim Cavanaugh

Phone: 484-459-9418

James.A.Cavanaugh@ieee.org



IEEE Computer Society Conference - Local Computer Networks (LCN)

Sheraton Sand Key Resort -Clearwater Beach, FL - October 26-29, 2015

The IEEE LCN conference is the premier conference on theoretical and practical aspects of computer networking. LCN is highly interactive, enabling an effective interchange of results and ideas among researchers, users, and product developers. Major developments from high-speed networks to the global Internet to specialized sensor networks have been reported at past LCNs.

Conference registration will be available via the IEEE online conference registration Web site during the summer of 2015.

Please visit <http://www.ieeelcn.org> for more information about the 40th Anniversary of this conference.



3D Printing Introduction

Date: Thursday May 14th, 6:30 PM

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

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 Students and Life Members, \$4 for IEEE Members, and \$6 for Non Members.

Food and beverages will be provided.

Mulrennan Middle School FLL Robotics Team Invited to Represent Florida in an International STEM Competition

The positive impact of Science, Technology, Engineering, and Math, or STEM education is receiving a lot of well deserved attention these days. The benefits of research, critical thinking, problem-solving, and public speaking skills are also apparent. Mix in lessons in Core Values, such as Gracious Professionalism, Honoring the Spirit of Friendly Competition, Team Work, plus exciting 2.5 minute Robot Game rounds held in arenas with blaring music and tons of cheering, and you start to get an idea of what FIRST Lego League (FLL) is about. Dean Kamen, of Segway fame, started the Foundation for the Inspiration of Science and Technology (FIRST) to inspire future engineers and scientists. Dean calls it “Sport for the Mind.”

A diverse team of 10 middle schoolers from Mulrennan Middle School in Valrico, Florida has had an exciting FLL season this year. They earned the 2nd Place Project Award at the Minotaur Pre-Qualifying Tournament at Stewart Middle School, the Tournament Champion’s Award at the Suncoast Qualifying Tournament at HCC Brandon, and the Judges’ Award at the West Florida Regional Tournament at Middleton High School. Then, on March 8, 2015 the Mulrennan Mustechs won the 2nd Place Champion’s Award at the Florida State FLL Championship at the University of Central Florida in Orlando, and an invitation to an international tournament, the Razorback Invitational at the University of Arkansas on May 14th-17th. This is a 64 team tournament that will have teams from all corners of the US, plus teams from around the world, including India, Japan, Australia, New Zealand, Israel, the UK, South Africa, Taiwan, Korea, and more. The Mustechs are seeking additional sponsors to help raise funds for travel costs so that they can represent Florida at this exciting international STEM competition. Please see www.mustechs.com for more information.

To earn this opportunity, the group of 6th, 7th, and 8th graders designed, built, and programmed their LEGO Mindstorms EV3 robot to autonomously score as many points as possible on a 4 foot by 8 foot Playing Field in 2.5 minute Robot Game rounds. The Mulrennan Mustechs also researched this year’s theme “World Class” to learn about real world challenges in education. After learning how many college students are so busy with family and jobs that only online classes fit their schedules, and learning about the challenges with online testing, the Mustechs developed an innovative solution that adds new features to a biometric smart pen, and applied it to the new application of online testing. This innovative solution improves the way that busy college students learn math. The Mustechs also honed their team work skills in order to excel at team work challenges, and apply the FLL Core Values both during FLL events and in their everyday lives.



What is the IEEE-USA MGM Program, and how does it work?

The IEEE USA MGM Program is a special offer for US members who refer a colleague to IEEE. If they join before 28-February, they'll get a \$25 discount off their first year membership. Between 1 March and 15 August, referrals pay just half price. In return, you'll get a gift.

Your referral will receive an e-mail inviting them to join at a \$25 discount off their first-year membership dues (16 August - 28 February) or join at the half-year rate (1 March - 15 August).

IEEE-USA gift items you can choose from include:

- Cooler backpack
- Computer backpack
- Portable solar battery charger
- Tablet case
- Portable speaker
- Parker pen and mechanical pencil set
- Parker ballpoint pen
- Travel coffee mug and tumbler set
- Golf balls
- Baseball hat
- Golf umbrella
- Travel umbrella

You will also be eligible to receive incentives through the IEEE Member-Get-a-Member (MGM) program.

Here's how it works:

- Refer your colleague via the online form (<http://ieeefluidsveys.com/s/ieee-usa/>)
- Your referral will receive an e-mail inviting them to join at a \$25 discount off their first-year membership dues
- Your referral will provide your IEEE member number as they join
- Within 3-4 weeks after your referral joins, you will receive an e-mail confirming your recruiting success, including a link which allows you to select your IEEE-USA merchandise item
- You will receive a separate e-mail for each new member you recruit

SP/Comm presents:

Date: Thursday June 18th, 6:30 PM

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

Speaker: Matt Davis – Samtec's technical resource for the south east, with 17 years of sales, engineering and electronics packaging design experience.

Organizer: For more specific information please contact: Chris Lambrecht. E-mail: chris.lambrecht@ieee.org, Phone: 727-458-9061

Cost is \$2 for Students and Life Members, \$4 for IEEE Members, and \$6 for Non Members.

Food and beverages will be provided.

October 26 – 28

The Premier International Conference for Military Communications

MILCOM 2015 celebrates the 34th anniversary of the premier international conference for military communications. "Leveraging Technology – The Joint Imperative" gathers the leading minds of government, military, industry and academia in an interactive forum to further explore and define the benefits that joint-level collaboration bring to current and future communication challenges. The annual conference will take place at the Tampa Convention Center. Leaders from around the world will address the critical role communications plays in military readiness and operations. MILCOM offers industry the opportunity to discuss communications technologies and services with decision makers from all branches of the armed forces, the Department of Defense, federal agencies and multinational forces.

In the MILCOM tradition, the conference will feature an outstanding series of technical presentations, discussions and tutorials, as well as nearly 30,000 square feet of industry exhibits all under one roof. It will include more than 300 unclassified and restricted technical presentations, tutorials and panel discussions led by experts in defense communications. Topics will include the spectrum of command, control, communications, computers, intelligence, surveillance and reconnaissance (C4ISR) technologies and capabilities that address 21st century communications challenges related to national defense, homeland security, disaster response and interoperability. Continuing education credits will be available to all attendees.

For more information please visit: <http://events.jspargo.com/milcom15/public/enter.aspx>

Advertising Section

 <p>NFPA 70E - ARC FLASH HAZARD ANALYSIS</p> <p>SERVICES INCLUDE:</p> <ul style="list-style-type: none"> ◆ SYSTEM SURVEYS ◆ SYSTEM ANALYSIS ◆ DATA GATHERING ◆ REPORTS & LABELING ◆ DATA ENTRY ◆ TRAINING  <p>(863) 425-2698 WWW.LEEDYELECTRIC.COM</p>	<p><i>Blue Elephant Consulting</i></p> <p><i>Unforgettable communication skills that will set your ideas free...</i></p>  <p>Dr. Jim Anderson jim@BlueElephantConsulting.com President Phone: 813.418.6970 www.BlueElephantConsulting.com</p> <p>P.O. Box 341734, Tampa, Florida 33694-1734</p>	 <p>NFPA 70E - ARC FLASH HAZARD ANALYSIS</p> <p>SERVICES INCLUDE:</p> <ul style="list-style-type: none"> ◆ SYSTEM SURVEYS ◆ SYSTEM ANALYSIS ◆ DATA GATHERING ◆ REPORTS & LABELING ◆ DATA ENTRY ◆ TRAINING  <p>(863) 425-2698 WWW.LEEDYELECTRIC.COM</p>																																																							
<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th rowspan="2">Size</th> <th colspan="2">One Month</th> <th colspan="2">6 Months</th> <th colspan="2">12 Months</th> </tr> <tr> <th>Member</th> <th>Non-Member</th> <th>Member</th> <th>Non-Member</th> <th>Member</th> <th>Non-Member</th> </tr> </thead> <tbody> <tr> <td>Business Card</td> <td>\$25</td> <td>\$33</td> <td>\$120</td> <td>\$150</td> <td>\$210</td> <td>\$252</td> </tr> <tr> <td>¼ Page</td> <td>\$40</td> <td>\$52</td> <td>\$190</td> <td>\$238</td> <td>\$335</td> <td>\$402</td> </tr> <tr> <td>½ Page</td> <td>\$75</td> <td>\$98</td> <td>\$360</td> <td>\$450</td> <td>\$630</td> <td>\$756</td> </tr> <tr> <td>¾ Page</td> <td>\$110</td> <td>\$143</td> <td>\$530</td> <td>\$663</td> <td>\$925</td> <td>\$1,110</td> </tr> <tr> <td>Full Page</td> <td>\$140</td> <td>\$182</td> <td>\$670</td> <td>\$838</td> <td>\$1,175</td> <td>\$1,410</td> </tr> <tr> <td>Insert / Sheet</td> <td>\$200</td> <td>\$260</td> <td>\$800</td> <td>\$1,000</td> <td>\$2,000</td> <td>\$2,400</td> </tr> </tbody> </table>			Size	One Month		6 Months		12 Months		Member	Non-Member	Member	Non-Member	Member	Non-Member	Business Card	\$25	\$33	\$120	\$150	\$210	\$252	¼ Page	\$40	\$52	\$190	\$238	\$335	\$402	½ Page	\$75	\$98	\$360	\$450	\$630	\$756	¾ Page	\$110	\$143	\$530	\$663	\$925	\$1,110	Full Page	\$140	\$182	\$670	\$838	\$1,175	\$1,410	Insert / Sheet	\$200	\$260	\$800	\$1,000	\$2,000	\$2,400
Size	One Month			6 Months		12 Months																																																			
	Member	Non-Member	Member	Non-Member	Member	Non-Member																																																			
Business Card	\$25	\$33	\$120	\$150	\$210	\$252																																																			
¼ Page	\$40	\$52	\$190	\$238	\$335	\$402																																																			
½ Page	\$75	\$98	\$360	\$450	\$630	\$756																																																			
¾ Page	\$110	\$143	\$530	\$663	\$925	\$1,110																																																			
Full Page	\$140	\$182	\$670	\$838	\$1,175	\$1,410																																																			
Insert / Sheet	\$200	\$260	\$800	\$1,000	\$2,000	\$2,400																																																			
<p><i>Blue Elephant Consulting</i></p> <p><i>Unforgettable communication skills that will set your ideas free...</i></p>  <p>Dr. Jim Anderson jim@BlueElephantConsulting.com President Phone: 813.418.6970 www.BlueElephantConsulting.com</p> <p>P.O. Box 341734, Tampa, Florida 33694-1734</p> <div style="border: 1px solid black; padding: 10px; text-align: center; margin-top: 20px;"> <p>Your advertisement here reaches over 2300 members in the local area!</p> </div>																																																									

IEEE, Inc. - FWCS, 3133 W. Paris St.
Tampa, FL 33614-5964



Florida West Coast Section, Tampa

NON PROFIT
ORG
U.S. POSTAGE
PAID
TAMPA, FL.
PERMIT
No. 1197

DATE SENSITIVE MATERIAL. DO NOT DELAY

Change of address? IEEE Web Contact Update <http://www.ieee.org/membership/coa.html>
Or send address changes including your name, IEEE Member number and all pertinent information to:
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

May 2015 Calendar of Events (For more information see P. 1) *inside this Signal...*

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
26	27	28	29	30	1	2
3	4	5 <i>EXCOM Meeting, 5:30 TECO Plaza</i>	6	7	8	9
10	11	12	13	14 <i>3D Printer Introduction 6:30 Largo Star Center</i>	15	16
17	18	19	20	21	22	23
24	25	26	27	28 <i>PES/IAS EXCOM Village Inn - 6am</i>	29	30
31	1	2	3	4	5	6