

### Florida West Coast Section (FWCS).

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### Florida West Coast Section (FWCS)

Please Check the Website Often for UPCOMING EVENTS (Front Page Right Column)

<https://r3.ieee.org/fwc/>

# The SunCoast Signal

The Institute of Electrical and Electronics Engineers, Inc.

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Next ExCom Meeting  
Tuesday, November 1st, 2022  
Google Meet  
Register with vTools

<https://events.vtools.ieee.org/m/326851>

## PE Corner

Art Nordlinger, PE, Senior Member

### 2023 Renewal Update

Licensure renewal begins November 1 for Professional Engineers licensed in Florida. Now is the time to make sure you are prepared for renewal. Here are some import items you need to know for renewal and a few things that you can do now to prepare.

As in recent years, renewal will only be done online with the Florida Department of Business and Professional Regulation at [myfloridalicense.com](http://myfloridalicense.com). Now would be a good time to log on, make sure that all of your information is up to date, and check the status of your license. You won't be able to actually renew until Tuesday, November 1. Early bird renewal, \$88.75, will be until January 15, 2023. After that the renewal fee is \$98.75. After February 23, 2023 there is a \$25 late fee.

You are going to be required to attest to the accuracy of your licensure information, the completion of Continuing Education for the renewal period, and the reporting of any disciplinary action taken against your license in another jurisdiction. While you may be able to complete the renewal process and pay your renewal fee, your license will not renew until you have responded to these statements. Once you have completed all of the steps you will receive an acknowledgement. If you don't receive one, go back and check what you missed.

All Professional Engineers licensed in Florida must complete 18 hours of continuing education each renewal period. However, if you passed your PE exam during the 2021-22 biennium you are exempt from this requirement.

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# IEEE FLORIDA WEST COAST SECTION EXECUTIVE COMMITTEE (ExCom)

**CHAIR:** Michael Mayor, michael.mayor@ieee.org  
(484) 524-3264

**VICE CHAIR:** Andrew Seely, andrew.seely@ieee.org  
(813) 368-6002

**SECRETARY:** Chung Seop Jeong, PhD, jeong@ieee.org

**PAST CHAIR:** Paul Belussi, paul.belussi.us@ieee.org  
(727) 418-5272

**TREASURER:** Claude Pitts, claud.pitts@ieee.org

**SIGNAL EDITOR:** Michael Mayor, michael.mayor@ieee.org,  
(484) 524-3264

**AWARDS & BYLAWS:** Richard Beatie, PE, r.beatie@ieee.org  
(813) 854-3948

**MEMBERSHIP:** Hermann Amaya, hermann.amaya.us@ieee.org  
(727) 543-1308

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

**CS/AESS Computer Systems/Aerospace & Electronic Systems,**  
Co-Chair: Michael Mayor, michael.mayor@ieee.org  
Co-Chair: Dr. Jim Anderson, jim.anderson@ieee.org

**EMBS Engineering in Medicine & Biology Chapter:**  
Sylvia Thomas, sylvia@usf.edu

**MTT/AP/ED Microwave Theory & Techniques/Antennas & Propa-  
gation/Electron Devices Joint Chapter:** Wang Jing  
Wang.jingw@usf.edu

**PES/IAS Power & Energy/Industry Applications Joint Chapter:**  
Chair Robert Demelo, robert.demelo@ieee.org

**RAS Robotics & Automation Chapter:** Sean Denny,  
venner20@ieee.org.

**SP/COMM Signal Processing / Communications Joint Chapter:**  
Chair Michael Ramalho, PhD, mar42@cornell.edu

**WIE Women in Engineering Affinity Group:** Chair Diana Aristiza-  
bal, dianaaristizabal08@gmail.com; Ammara Ghani;  
ammara.ghani@gmail.com

**LIFE MEMBER Affinity Group:** Chair Richard Beatie, PE,  
r.beatie@ieee.org

**PACE Chair** Michael Mayor, michael.mayor@ieee.org

**YOUNG PROFESSIONALS:** Chair TJ Ross, a.j.ross@ieee.org

**CONSULTANTS NETWORK:** Hermann Amaya,  
hermann.amaya.us@ieee.org

**CONFERENCES:** Josh Grose, jgrose@gmail.com

**SENIOR MEMBER COMMITTEE:** Hermann Amaya,  
hermann.amaya.us@ieee.org

**STUDENT BRANCH MENTOR:** Jacob Chacko,  
jacobchacko@eaton.com

**USF STUDENT BRANCH ADVISORS:**  
Dr. Andrew Hoff, Student Branch Co-Advisor, hoff@usf.edu,  
Dr. Chung Seop Jeong, Student Branch Co-Advisor,  
jeong@usf.edu, (813) 974-6415  
Dr. Srinivas Katkoori, CS Chapter Advisor,  
katkoori@mail.usf.edu  
Dr. Jing Wang, MTT Chapter Advisor, jingw@usf.edu

**Student Branch/Chapters:**  
USF Student Branch, Chair: Sarah Grace Perkins,  
sgraceperkins73@ieee.org  
USF Computer Society Chapter: Vishalini Laguduva Ramnath,  
vishalini@mail.usf.edu  
USF Microwave Theory & Techniques  
Chapter Chair: Enrique Gonzalez, enriquegonza@mail.usf.edu  
USF Power & Energy / Industry Applications  
Chapter Chair: Joe Ghisu, jghisu@mail.usf.edu

**FLORIDA POLYTECHNIC UNIVERSITY / Student Chapter**  
President, Aedan Casey acasey9788@floridapoly.edu

**WEB MASTER:** TJ Ross, a.j.ross@ieee.org, (505) 620-7734

**WEB PAGE:** <https://r3.ieee.org/fwc/>

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On a related note, about 100 PEs that were selected for audit in the last renewal cycle did not respond to the Board's request for evidence that they completed the required Continuing Education during the renewal period. Their names and PE numbers are listed in the Board's current newsletter. By the time this article is published the deadline for responding will have passed. However, you may want to check the list to see whether you, or someone that you know, is on it.

If you aren't receiving the FBPE newsletter emails, you may have unsubscribed to FBPE emails. That means you won't receive notifications and reminders regarding renewing your PE license. You can re-subscribe to FBPE emails using the *Re-subscribe to FBPE Emails* form on the Board's website. Additionally, if you need to update your contact information with the Board, fill out and submit the online *Change Contact Information* form on the Board's website.

Any company offering engineering services in Florida must be registered with the Department of Business and Professional Regulation and have a licensed Professional Engineer qualify them. Qualified business organizations do not need to be renewed every two years and there is no associated fee to register.

Whether you are a PE looking to attain required CEHs, or an engineer looking to learn something new or keep current with the latest trends in the profession, IEEE has seminars that will meet your needs. With the renewal deadline only 4 months away seminar demand is high. Sign up now!

**THE SUNCOAST SIGNAL**, published monthly by the Florida West Coast Section (FWCS) of the Institute of Electrical and Electronics Engineers, Inc. (IEEE). **Please Note that the SUNCOAST SIGNAL is sent each month to ACTIVE members of the IEEE Florida West Coast Section. So to continue receiving the SIGNAL please keep your membership Active, meaning, renew your membership when it becomes due.** 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 the end of day of the 1st Monday after the 1st Tuesday of the month, i.e. the ExCom meeting, preceding the issue month.

Address all correspondence to: Michael Mayor

[michael.mayor@ieee.org](mailto:michael.mayor@ieee.org)

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**SAVE THE DATE**  
**Senior Member Gala Banquet**  
**St. Petersburg Yacht Club**  
**Saturday, November 5, 2022**



The IEEE Florida West Coast Section Senior Membership Elevation Committee and the FWCS Executive Committee are pleased to announce the 2022 Senior Member Gala Banquet, to be held on 5 November in St. Petersburg's beautiful downtown waterfront. All FWCS members are invited to join FWCS in recognition of the accomplishments of the Section's Senior and Life Senior Members.

The Gala program will include presentations on Senior Membership development in the Section and the Region, highlighting plans for new opportunities for professional engagement and leadership in 2023 such as speaking, collaborating, and mentoring opportunities available specifically for our Senior and Life Senior members. A FWCS Senior Member Keynote will showcase the impact an IEEE member can have on technology. Awards and recognitions will showcase the accomplishments of contributors to the Senior Member experience during the pandemic years 2020-2022, including the contributions of our University of South Florida student members

who have collaborated with the Senior Member Elevation Committee to launch the monthly Signal newsletter featured Student Member interview of a new Senior Member.

There will be opportunities to sign up to contribute to the Senior Member Elevation Committee, to be interviewed by a USF engineering student for the Signal series, and to support FWCS Senior Member activities in the coming year. FWCS members eligible but not yet a Senior Member will have the opportunity to start the process and be elevated in the next promotion cycle.

Business or formal attire is suggested, and pre-registration is required. Registration is at:

<https://events.vtools.ieee.org/m/318089>

For more information or to volunteer in the Gala planning committee, please contact:

Senior Member Elevation Committee Chair,  
Hermann Amaya at: [hermann.amaya.us@ieee.org](mailto:hermann.amaya.us@ieee.org).



## UPDATE

**Robert DeMelo**  
**Chair: IEEE FWCS PES/IAS**  
**Mark Your Calendars**  
**For 2023**

**IEEE Power & Energy**  
**Society (PES)**  
**General Meeting 2023**

**Date: 07/16/2023 - 07/20/2023**  
**Venue: Orlando, FL**

The IEEE Power and Energy Society General Meeting (GM) will be held in Orlando. The GM attracts professionals from every segment of the electric power industry. It features a comprehensive technical program with paper presentations, poster and panel sessions, a number of technical tours, a student program and companion activities. This year's technical theme is Paving the Way for Grid Modernization.

Website: <https://pes-gm.org>



### **IEEE Power Systems Relaying and Control Committee** **PSRC in 2023**

IEEE Power System Relaying and Control Committee (PSRC)  
In-Person Meeting

Dates: 1/8/2023 - 1/12/2023  
Venue: Hyatt Regency  
225 E Coastline Drive  
Jacksonville, FL, United States 32202

The IEEE PSRC is chaired by the Florida West Coast Section's very own: Murty Yalla.

For More information:  
<https://www.pes-psrc.org/index.html>

PSRC Resource Center:  
<https://www.pes-psrc.org/knowledgebase.html>

Subcommittees of the IEEE PSRC  
Include:

System Protection,  
Line Protection,  
Relaying Communication and Control,  
Relaying Practices,  
Rotating Machinery Protection,  
Substation Protection

Subcommittee webpages:  
<https://www.pes-psrc.org/subcommittees.html>

### **PES/IAS Planning Meeting**

**Saturday, October 29, 8:00 am – 9:00 am**

**Village Inn, 215 N Dale Mabry Hwy, TAMPA, Florida, United States, 33609**

<https://events.vtools.ieee.org/m/292696>



## Generator Protection and NERC Compliance

**\*\* IN-PERSON EVENT \*\***

**Date:** Friday, December 9, 2022

**Time:** 9:00am – 3:00pm

**Speaker:** Dr. Murty V.V.S. Yalla – VP/General Manager of Beckwith Electric (business unit of Hubbell)

Doug Weisz, P.E. – Principle Generation Protection Application Engineer at Beckwith Electric (business unit of Hubbell)

**Location:** Seminole Electric Cooperative, Inc.

16313 North Dale Mabry Hwy, Tampa, FL 33624

**Cost:** \$100 members, \$200 Non-Members, \$20 Students (lunch will be provided)

**CEH Credits:** Five (5) CEH's provided for this event. Florida provider #0003849.

**RSVP:** Online at: <https://events.vtools.ieee.org/m/326521>

**Questions:** Robert DeMelo - [Robert.demelo@ieee.org](mailto:Robert.demelo@ieee.org) or Ariana McGuirk – [amcguirk@ieee.org](mailto:amcguirk@ieee.org)

An overview of generator protection is presented in this seminar which includes all major protection functions. Detailed protection concepts will be presented for the impedance-based protective functions that are typically used for generator protection. These include backup phase fault protection using phase distance (21), loss of excitation or loss of field protection (40), and out-of-step or loss of synchronism protection (78). Detailed sample setting calculations will be presented for 21, 40 and 78 protection functions. The seminar will also provide details on how to coordinate the protection settings against machine capability and compliance to appli-

cable NERC PRC standards. Specifically, the calculated settings are evaluated against NERC PRC-025 Generator Relay Loadability, PRC-026 Relay Performance During Stable Power Swings, and PRC-019 Coordination of Generating Unit or Plant Capabilities, Voltage Regulating Controls, and Protection. Other protection functions covered include overexcitation (24), over/undervoltage (59/27), stator ground fault (59G), 100% stator ground fault protection (27TH, 5THD, 64S), reverse power (32), negative sequence unbalance (46), inadvertent energization (50/27), over/under frequency (81), and phase differential current (87).

**Dr. Murty V.V.S. Yalla** has been with Beckwith Electric since 1989 and presently holds the position of Vice President/General Manager. Dr. Yalla is the chairman (2015-2024) of the International Electrotechnical Commission (IEC, Geneva, Switzerland) technical committee (TC95), measuring relays and protection equipment. He leads subject matter experts from 34 countries in the development of international standards in power system protection and control. Dr. Yalla is also the chairman of the IEEE Power & Energy Society (PES) and Power System Relaying and Control (PSRC) committee from 2021 to 2022 where IEEE standards, guides and reports

related to power system protection are developed. He served as a U.S. delegate to the international council on large electric systems (CIGRE, France), working groups on protection of generators and power transformers.

He was a member of the NERC System Protection and Control Subcommittee (SPCS). Presently he is a member of the Industry Technical Support Leadership Committee (ITS LC) of the IEEE PES, serving as a liaison between IEEE PES and NERC.

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He also serves on the planning committee of the Georgia Tech protective relaying conference. Dr. Yalla was the chairman of the working group that developed IEEE Standard C37.102-2006 "Guide for AC Generator Protection." He co-authored an IEEE PES tutorial on the "Protection of Synchronous Generators." Dr. Yalla has published several research papers in IEEE Journals and various conferences. He holds seven U.S. patents in power system protection and control. He was elevated to the IEEE Fellow grade in 2006 "for contributions in computer relays for power systems." He also received various other awards including the IEEE Florida Council Outstanding Engineer Award in 2005 and 2018, the IEC 1906 Award in 2010, and the Indo-U.S. Chamber of Commerce Businessman of the Year Award in 2013. In 2021, Dr. Yalla was elected to the National Academy of Engineering (NAE) "for contributions to digital protection and control devices for the grid."

**Doug Weisz, P.E.** joined Beckwith Electric in 2017 as a Principal Generation Protection Application En-

gineer. His responsibilities include working with customers to help solve generator, transformer, and power plant protection, setting calculations, application & design questions, and to assist in troubleshooting and post event analysis from trip events at power plants. His previous work experience includes 30 years as a Relay Engineer for Wisconsin Public Service in Green Bay, WI. This experience included protective relaying design for Generators, Power Plants, Substations, Transmission, and Distribution. Responsibilities included relay calculations and settings development, fault study modelling and calculations, 1-lines, 3-lines, and schematics development, NERC PRC standards compliance evaluations, and commissioning assistance. Doug is active with various working groups at IEEE PES PSRC committee and presently the vice chair of WG J15 "Investigation of the Criteria for the Transfer of Motor Buses" and J16 "Revision of C37.101, Guide for Generator Ground Protection". Doug received a bachelor's degree in Electrical Engineering from South Dakota School of Mines and Technology in Rapid City, South Dakota in 1987. He currently holds a Professional Engineer License from the State of Wisconsin.

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**Senior Member Roundup**  
**Oct. 29, 2022 - 12pm - 4pm**

**Register:** <https://events.vtools.ieee.org/m/321638>

**Contact / Questions:** [andrew.seely@ieee.org](mailto:andrew.seely@ieee.org)

[hermann.amaya.us@ieee.org](mailto:hermann.amaya.us@ieee.org)

INSTITUTE OF ELECTRICAL AND ELECTRONIC ENGINEERS  
FLORIDA WEST COAST SECTION

IEEE FWCS LIGNELL AWARD  
OUTSTANDING TEACHER RECOGNITION PROGRAM

For some years now the IEEE Florida West Coast Section (FWCS) has sponsored the Lignell Award Outstanding Teacher Recognition Program to recognize and honor outstanding contributions by Public High School teachers to pre-college education in Mathematics and/or Science pre-college education in Charlotte, Citrus, DeSoto, Hardee, Hernando, Hillsborough, Lee, Manatee, Pasco, Pinellas, Polk, and Sarasota Counties.

This program is open to all individuals teaching classes in Mathematics and/or Science in the public high schools during the current school year. We are presently seeking nominations for this year's awards that will be presented at the Tampa Bay Engineers Week Banquet 2022 at Jewish Community Center in Tampa on Thursday February 16, 2023. The Banquet Center is at 522 N Howard Ave, Tampa, FL 33606. Please call (813) 575-5900 for more directions.

There will be three best recipients of this award from the twelve counties and the winners will be invited to attend the banquet, with a guest, to be presented with the award and an honorarium. ***Please make certain that we will pay for the winner and one guest. Any additional guests must pay their own.***

If there is a teacher at your school who you think should be considered for this prestigious award, please complete the enclosed nomination form and return it to the above address no later than **December 16<sup>th</sup>, 2022**. It is important to submit your nomi-

nation form and any supporting materials in digital format through your email account (in lieu of a signature). An electronic version of the form can be downloaded from the Tampa Bay Engineering Week Banquet website [www.tbewb.org](http://www.tbewb.org) and returned to me via mail or e-mail to [venner20@ieee.org](mailto:venner20@ieee.org). We also encourage an additional narrative along with the nomination form that justifies the individual receiving this honor as the "Outstanding Teacher of Math and Science" in the entire county where they teach. We would like to receive several of nominations of "deserving and qualified" candidates throughout the county. Please do not have a narrow screening process before the nominations are forwarded to me. If you have any questions, please do not hesitate to give me a call.

Sincerely,

Sean Denny  
IEEE FWCS Education –Teacher In Service  
Chair  
IEEE Senior Member / STEM Champion  
R3 Florida West Coast Section  
Chair / Secretary, IEEE FWCS Robotics and Automation  
5545 Dartmouth Avenue North  
St. Petersburg, FL, 33710  
Tel: (727) 678-0183  
E-mail: [venner20@ieee.org](mailto:venner20@ieee.org)



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**IEEE FWCS LIGNELL AWARD  
OUTSTANDING TEACHER RECOGNITION PROGRAM**

*Nominators shall provide the following information with respect to the nominee's achievements and qualifications by filling in the Nominee's Information in Section A below and answering the questions in Section B. All information in Section B shall be limited to four (4) pages and shall be submitted electronically in a MS Word Document in essay style for submission to the selection panel. It is also encouraged to supply letters of recommendation and/or awards. Please scan these documents and submit electronically. This form inclusive of Section A shall also be submitted.*

**Goal:** To recognize and honor outstanding contributions by teachers for pre-college education in Mathematics or Science.

**Qualifications:** Individuals teaching classes in Mathematics or Science in the public high schools during the current school year.

**A. Nominee's Information**

Nominee's Name:	
Nominee's Position:	
Phone Number:	
Email:	
School System:	
School:	
School Address:	
Nominated by:	
Nominator's Phone Number:	
Nominator's Email:	
Nominator's Position:	
Nominator's Address:	

**B. Mandatory Qualification Information**

Qualifying Class(es) taught by the nominee and number of year(s) each class was taught.  
How long has the nominee been teaching the qualifying subject(s) for which he/she is being nominated?  
Other activities the nominee has participated in, such as, sponsoring/coaching JETS, MATHCOUNTS, SCIENCE FAIR, etc.  
Other Classes Taught by the nominee.  
Why should the nominee be considered for special recognition?  
What sets he/she above their peers teaching the same subjects?  
How long has the nominee been teaching at his/her present School Assignment?  
From which Universit(ies) did the nominee graduate, what degree(s) were earned and in which year(s)?

**Please return all information, no later than December 16, 2022, to  
Sean Denny, 5545 Dartmouth Avenue N. St. Petersburg, FL 33710 or to [venner20@ieee.org](mailto:venner20@ieee.org)  
Questions, please call Sean Denny at (727) 678-0183.**



## Hearing about the Journey of a multi-skilled IEEE Senior Member

### Interview with Dr. Bhuvan Unhelkar by Biloliddin Farkhodov, a second-year Cybersecurity student at the University of South Florida.

During our interview with Dr. Unhelkar, an IEEE Senior Member, author of 20 books, professor at USF, Founder & Consultant at MethodScience, and an incredible interlocutor. Dr. Unhelkar's expertise in Big Data Strategy, Agile Processes, Business Analysis & Requirements Modeling, and Software Engineering focusing on UML and Object Modeling was a pleasant surprise. We discussed a variety of topics including the importance of IEEE in his life, significant projects, and his career path.

His interest in engineering began in India, where he was born. Historically, becoming a doctor or engineer in India was very popular and Dr. Unhelkar chose the second path. "I am very happy that I have chosen to go into engineering," he says. After completing his Bachelor's degree at Maharaaja Sayajirao University of Baroda he moved to Sydney, Australia. There he has done his Master's and Ph.D. at the University of Technology Sydney.

He has lived for 20 years in Australia. His teaching career spans teaching at both undergraduate and masters level where he has designed and delivered courses including Global Information Systems, Agile Method Engineering, Object Oriented Analysis and Design, Business Process Reengineering, and New Technology Alignment in Australia, USA, China and India. Earlier, at Western Sydney University, he supervised 7 successful Ph.D. candidates and published research papers and case studies. His current industrial research interests include Big Data and business value and Business Analysis in the context of Agile. Dr. Unhelkar holds a Certificate-IV in TAA and TAE, Professional Scrum Master - and is a Certified Business Analysis Professional® (CBAP of the IIBA).

Further, it was an honor to meet with Dr. Unhelkar who authored numerous executive reports, journal articles, and 20 books for internationally reputed publishers, including his famous projects: *Big Data Strategies for Agile Business*, *The Art Of Agile Practice: A Composite Approach for Projects And Organizations* and *Software Engineering with UML*. He is also passionate about

coaching senior executives, training, re-skilling, and mentoring IT professionals, forming centers of excellence, and creating assessment frameworks (SFIA-based) to support corporate change initiatives.

IEEE offers access to technical innovation, cutting-edge information, networking opportunities, and exclusive member benefits. In our discussion, he mentioned the importance of IEEE in his career path. According to Dr. Unhelkar, IEEE provided opportunities to meet with professional engineers, share knowledge, and collaborate with students. In addition, he added that IEEE is one of the most effective ways to build a network and he encourages his students to join IEEE. Networking is less likely to be taught in regular classes, as he believes. Instead, it can be found in associations such as the IEEE.

#### **Question: If you could give young people some advice for the future, what would it be?**

In response to this question, Dr. Unhelkar paused for a moment and responded: Don't be afraid to make mistakes. Don't be afraid to start your projects and businesses. Make sure you keep your skills updated as well. You may be the most talented engineer, but after 10 years your skills will no longer be needed.

#### **Question: How do you see the future?**

The answer I received from Dr. Unhelkar was honest and full of excitement. Artificial Intelligence and Big Data have already entered the era of the digital economy, he believes. There is no doubt that these two fields will grow at a rapid pace and improve people's lives in the coming years.

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**Question:** I would like to congratulate you on being elected President of the Sarasota Sunrise Rotary Club and on your 20 years of involvement with the club. Could you please share your experience with the club?

Rotary is a global network of 1.2 million neighbors, friends, leaders, and problem-solvers who see a world where people unite and take action to create lasting change – across the globe, in our communities, and ourselves. It's been my pleasure to be a member of the club since 2002. During my leadership, the club was selected as one of 200 worldwide to experiment with "Innovative and Flexibility" initiatives.

These initiatives were taken up wholeheartedly by the club and included recording (with permission) the guest speaker and putting the speech on Youtube, electronic (SurveyMonkey-based) voting by the board and members on various issues, and trying out different meeting times and application of OH&S principles.

In conclusion, we had the opportunity to meet one of the best senior tech leads with decades of career experience. Dr. Unhelkar is a very interesting speaker and I learned so much from him. It is inspiring to see how he is trying to make a difference in the world and share knowledge.

## Florida Polytechnic University Student Branch

My name is Riley Kiefer. I am the Secretary of Florida Polytechnic University's IEEE Student Branch. Last year under old management, our team was struggling to gain students and find attractive events.

**Advertisement:** This year under new management, we have started off with strong advertising: we had a table to discuss the IEEE club at our school's club fair. We are also participating in events like IEEE Day to gain exposure.

**Regional Involvement:** We are also increasing our involvement outside the chapter. I am working with Jacob to participate in the Executive Committee meetings, and we have plans to attend the Region 3 training this Friday.

**Local Involvement:** We are attempting to start a November industry connection speaker series on Fridays.

**Activities:** Our keynote project this semester is titled the Google Pixel Wall project. The objective of this project is to recreate a multi-disciplinary project created by a Google intern from the ground up by our student members. This project workshop meets every Friday, and consistently gets great numbers of active members.

**Societies and Committees:** With our growing club, we are adding focused subgroups based on the demand of our students. We have restarted the Power and Energy Society on campus (overseen by the Student Branch's executive board). We are also planning on restarting our RF committee (also overseen by the Student Branch's executive board). Several years ago, our IEEE student members were recognized by the FCC as a club with our own callsign. We are getting several interested students looking to restart this. Due to lack of demand, the Computer Society on campus has become dormant.

**Publications:** We have one student that is accepted for publication at the IEEE IEMCON conference coming up.

I hope this finds you well and details the involvement of the IEEE Student Branch of Florida Poly.

**Riley Kiefer**  
**Secretary of the IEEE Student Branch, Florida**  
**Polytechnic University**  
**President of IEEE-HKN Mu Omega, Florida**  
**Polytechnic University.**



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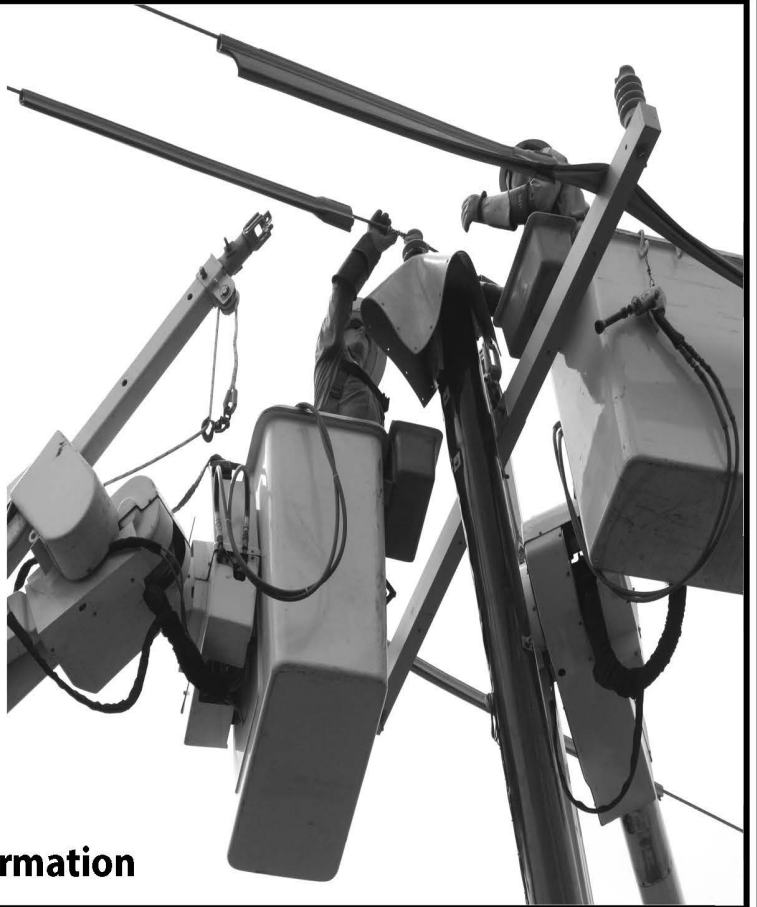
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	Member	Non-Member	Member	Non-Member	Member	Non-Member
<b>Business Cards</b>	\$25	\$35	\$120	\$150	\$210	\$252
<b>1/4 Page</b>	\$40	\$52	\$190	\$380	\$335	\$402
<b>1/2 Page</b>	\$75	\$98	\$360	\$450	\$630	\$756
<b>3/4 Page</b>	\$110	\$143	\$530	\$663	\$925	\$1,110
<b>Full Page</b>	\$140	\$182	\$670	\$838	\$1,175	\$1,410
<b>Insert / Sheet</b>	\$200	\$260	\$800	\$1,000	\$2,000	\$2,400

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**November 2022 - Calendar of Events** (For more information see "Inside the SunCoast Signal" → Page 1)

Sun	Mon	Tue	Wed	Thu	Fri	Sat
		1	2	3	4	5
		*ExCom →Page 1				*SM Gala Banquet →Page 3
6	7	8	9	10	11	12
	*Signal Inputs Due End of Day					
13	14	15	16	17	18	19
20	21	22	23	24	25	26
						*PES/IAS ExCom →Page 4 *SM Roundup →Page 6
27	28	29	30			