

Florida West Coast Section (FWCS).

Serving over 2,100 members in the following Counties:

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The SunCoast Signal

The Institute of Electrical and Electronics Engineers, Inc.

Florida West Coast Section (FWCS)

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

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

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Next ExCom Meeting
Tuesday, March 7, 2023

Google Meet

Register with vTools

<https://events.vtools.ieee.org/m/349612>

PE Corner

Art Nordlinger, PE, Life Senior Member

Education Requirements for Licensure

In our increasingly international society it is common that an engineer who earned their engineering degree outside of the United States will apply for licensure. As their course of study is neither EAC/ABET nor ETAC/ABET accredited, their path to licensure is covered by section 61G15-20.007 or -20.008 FAC. These applicants must have their college curriculum and transcript evaluated by either NCEES or Josef Silney & Associates, a consulting firm that specializes in these evaluations. This evaluation will determine whether the applicant's course of study is equivalent to that required for ABET accreditation and identify any deficiencies if they exist.

Some applicants are denied licensure by the FBPE education review committee because the evaluation by one of the entities above often finds that their college course of study, while adequate in terms of engineering courses, lacks sufficient courses in college level mathematics, basic sciences or general education. Some of these applicants appear before the Board to discuss their denial and attempt to convince the Board that their education does, in fact, meet the requirements. Though these appeals are often interesting to listen to, they rarely result in the Board changing their view.

The applicant whose college course of study is found to be lacking has several choices to rectify the deficiency. One is to simply take the college credit hours that they are short and resubmit their application. In some cases, the applicant is able to "clep" the course; that is, essentially take to course final exam to show mastery of the subject matter.

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Recent changes to these rules change the hours accepted and also expands the list of providers of eligible college exams. The changes are:

(2) Credit By Examination and College Courses.

(a) Deficiencies in Mathematics and Basic Sciences and/or General Education required by paragraphs (1)(a) and (1)(b), above, may be satisfied by passage of an examination identified on the "Articulation Coordinating Committee Credit-By-Examination Equivalencies" (Rev 09/2022) list incorporated by reference in State Board of Education paragraph 6A-10.024(8)(a), F.A.C., and which may be obtained at: <https://www.flrules.org/Gateway/reference.asp?No=Ref-15005>.

1. Credit will only be given for exams in courses that meet the requirements of paragraph (1)(a) or (1)(b), above.

2. For credit to be given, the applicant shall achieve a passing score as identified on the list.

3. Three (3) credit hours shall be granted for each exam, unless the applicant provides evidence that a college or university with an EAC/ABET-accredited engineering program will grant more credit.

(b) College- or university-level courses can also be taken to satisfy deficiencies. Credit shall not be given for a college or university course or credit-by-examination exam if credit in a similar course or exam has already been earned.

These changes should help clarify the steps that the applicant needs to take to rectify identified educational deficiencies and obtain their license.

Whether you are a PE looking to attain required CEHs, or an engineer looking to learn something new or keep current with the latest trend in the profession, IEEE has seminars that will meet your needs.

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.

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PES/IAS UPDATE!

The following 10 tutorials will be presented during the 2023 IEEE PES General Meeting in Orlando. Earn Professional Development Hours (PDHs) or Continuing Education Units (CEUs) for your attendance and completion of the classes. A full or one-day event registration plus an additional tutorial fee is required in order to attend any of these tutorial courses.

- Voltage Optimization: Methodologies, Implementations, and Industry Practices
- Power System Stabilization Via Excitation Control
- Generic Modeling of Inverter Based Resources (IBR) and Load for Power System Planning Studies
- Probabilistic Energy Forecasting: Methodologies, Implementations, and Applications
- Studies for Planning and Execution of HVDC Transmission Projects
- Dynamic Grid Stabilization with Grid-Forming + Energy Storage Technologies
- Application of CIM-based Methodologies to Utility Big Data Management and Real-time Operation Model Update
- Fundamentals of Transactive Energy Systems
- Grid Forming Inverter Technology
- Grid Energy Storage Meeting the Challenges of a Decarbonized Future

AMALIE ARENA TOUR!

Great tour on January 20th by the Life Member Affinity Group (LMAG) and PES/IAS of the Amalie Arena (home of the Tampa Bay Lightning) facilitated by the Vinik Sports Group.



**Congratulations to
Adrian Zvarych for
taking on the role of
Region 3 Chapter
Representative**

**PES General Meeting
July 16th – 20th
Orlando, FL**

**Be on the Lookout for
Exciting Future
Events**

**Plan to Attend our
Monthly ExCom
Meetings – See our
Monthly Calendar at
the Link Below**

FLORIDA WEST COAST SECTION PES/IAS

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Secretary: Kayla Allemang

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

Region 3



Real-World Sub-Synchronous Oscillation Events in Power Grids with High Penetrations of Inverter-Based Resources Webinar

Date: Friday, March 24, 2023
Time: Webinar: 12:00PM – 1:30PM (EST/EDT)
Speaker: Lingling Fan, Ph.D., P.E., IEEE Fellow - Professor, University of South Florida
Location: Online – meeting invitation will be emailed to attendees prior to seminar
Cost: Free
CEH Credits: No CEH's provided for this event.
RSVP: Online at: <https://events.vtools.ieee.org/m/343830>
Questions: Kayla Allemang - Kallemand@ieee.org

Abstract: This virtual seminar presents a survey of real-world sub-synchronous oscillation events associated with inverter-based resources (IBR) over the past decade. The focus is on those oscillations in the sub-synchronous frequency range known to be influenced by power grid characteristics, e.g., series compensation or low system strength.

A brief overview of the historical events is presented followed by detailed descriptions of a series of events. This virtual seminar also examines causation mechanisms and proposes future research directions to meet grid needs worldwide.

Biography: Dr. Lingling Fan, PH.D., P.E., IEEE Fellow. Dr. Fan is a Professor at the Department of Electrical Engineering at the University of South Florida, where she has been since 2009. She was a Senior Engineer in the Transmission Asset Management Department, Midwest ISO (St. Paul, Minnesota) from 2001 to 2007, and an Assistant Professor with North Dakota State University (Fargo, North Dakota) from 2007 to 2009.

She received the B.S. and M.S. degrees in electrical engineering from Southeast University, Nanjing, China, in 1994 and 1997, respectively, and the Ph.D. degree in electrical engineering from West Virginia University, Morgantown, in 2001.

Dr. Fan is research active in control, computing, and dynamic analysis of power systems, power electronics, and electric machines. Her research is sponsored by DOE, NSF, NREL, EPRI. Dr. Fan is the founding chair of IEEE Power and Energy Society's Wind SSO/IBR SSO task force. She has authored/co-authored two books: "Modeling and Analysis of Double Fed Induction Generator Wind Energy Systems" (Elsevier Press, 2015) and "Control and Dynamics in Power Systems and Microgrids" (CRC press, 2017). Currently, Dr. Fan serves as the editor-in-chief for IEEE Electrification Magazine and associate editor for IEEE Transactions on Energy Conversion.

PES/IAS ExCom

Thursday, February 23, 6:30 am – 7:30 am

In-Person at the Village Inn.

215 North Dale Mabry Hwy, Tampa, Florida, United States

Contact/Questions: Robert Demelo, robert.demelo@ieee.org

Tampa Bay Engineers Week Banquet

The 2023 Tampa Bay Engineers Week Banquet on Thursday, February 16, 2023 returned to the Bryan Glazer Family Jewish Community Center. I arrived early at 5:00pm to attend the pre-dinner networking. I greeted the guests while enjoying the food, drink, and engineer vendors during the pre-dinner networking in the ante-room lobby. I welcomed each Lignell Teacher, IEEE Members, and School Officials.

I interviewed the Lignell Teachers Kristina Epperson and Dimitri Papadimitriou. Robofest Chair Emma Alaba attended at my request and helped take photographs at the dinner. After 6:30pm, we were invited into the ballroom for the Banquet. I greeted Astronaut Nicole Stott who would later be the Keynote Speaker.

Don Germaise took the position of Master of Ceremonies to announce the theme "Creating The Future" and calling everyone to take a seat. Eight Engineering Organizations worked together to organize the 42nd Engineers Banquet.

The students from six Engineering Organizations won Student Engineer Awards first. IEEE Student was Elizabeth Grace Perkins from USF. Mr. Germaise announced the Lignell winners individually. The committee under the leadership of Suzy Folsom and Michelle Navar chose two Hillsborough County teachers for the Lignell Award this year which included: Kristina Epperson (Gaither High School Math) and Dimitri Papadimitriou (Gaither

High School Math). Hillsborough County STEM Director Larry Plank with Hillsborough School Board Member Patti Rendon were honored to attend and volunteered to present the Lignell Awards.

Suzy Folsom introduced the Keynote Speaker: Nicole Stott. We were treated to a first-hand account of life on the International Space Station. She took amazing photos of Florida from space. She described how she made water-color paintings in Zero Gravity. Astronaut Stott was on the final Discovery Space Shuttle Flight in 2011. She enjoyed a post NASA career in doing Art for hospital bound children in the Space for Art Foundation. She left us with the phrase for us to "treat each other as crew members and not just passengers."

Kayla Allemang won the IEEE Young Professional Award and Diana Aristizabal was our IEEE Engineer of the Year. The committee took a bow and had a group picture on the stage before going home.

We enjoyed dinner consisting of Chicken, Shrimp, Rice, Asparagus, salad, and roasted pear cheesecake.

Sean P Denny
IEEE Senior Member
Teacher In Service, R3 Florida West Coast
Section
Chair/Secretary, IEEE FWCS Robotics and
Automation



Sean Denny (Center)



Nicole Stott, Keynote Speaker (2nd from left)

Tampa Bay Engineers Week Banquet Awards

This premier event brings together local leaders and engineering professionals to recognize the outstanding achievements of Engineers, Science Teachers, Math Teachers, and Students in our community.

Additionally, awards were presented to outstanding engineers in each discipline, as well as local engineering students excelling in their engineering related studies and Young Professionals. The banquet also features the Lignell Awards.

These awards, named after a former Chairman for the Institute of Electrical and Electronics Engineers (IEEE), are given to local High School educators who are performing outstanding work in the instruction of the STEM topics (science, technology, engineering and math). The organizers of the event recognize the important role these individuals play in encouraging students to pursue technological degrees in college.

Lignell Awards



Dimitri Papadimitriou, MS, is the Advanced Placement Calculus and Precalculus Teacher at Gaither High School. He received his Bachelor's Degree in Theoretical Mathematics from UCONN. Dimitri obtained his Master's Degree in Education from the University of New Haven. For the past 13 years, Dimitri has helped over 1500 high school students be successful in their mathematics courses. In Calculus, Dimitri's students are currently the highest – ranked in the district.



Kristina Epperson is a Mathematics teacher at Gaither High School in Tampa. She has taught at Gaither for 12 years. Prior to her teaching career, Kristina owned and operated three restaurants in the Tampa Bay Area. She attended the University of South Florida and earned a bachelor's degree in Mathematics Education. She currently teaches Algebra 2 Honors and Foundational skills. However, her specialty is helping students excel on the SAT and ACT, whether they need to improve their score for scholarships and college entry or need to meet their math benchmark for graduation. She has spent the last few years tailoring her approach to teaching to help all students succeed. She also runs a Saturday boot camp through her school so that she can reach as many students as possible.



Engineering Awards

Diana Aristizabal - Engineer of the Year Award



She is a Sr. Principal Engineer with Raytheon Intelligence & Space with over 15 years of experience in RF/microwave hardware development in the Aerospace/Defense industry. Diana is a graduate of the University of South Florida. Diana is a senior IEEE member and has served as the Chair of the Women in Engineering IEEE Florida West Coast Section for 3 years. An affinity group that was inactive for several years prior. Under her leadership, WIE developed an international outreach program called WINC (WIE International Network Connections). It is a multi-regional outreach program for engaging professional women and young professionals, expand networking, provide professional development, and raise awareness of IEEE, WIE, and Young Professionals. Diana also serves as a reference provider for the Region 3 senior member elevation committee.

Sarah Grace Perkins - Student Engineer of the Year Award



She is from Clermont, FL. She graduated from South Lake High School. She likes volleyball, swimming, and cooking. She spends her spare time with reading as well. She chose to become involved in IEEE because she wanted to be connected to the EE community and see what opportunities were available. She participated in the mentorship program and helped to build the FWCS x USF student interview program with Senior Members in the region. As the IEEE USF Student Branch chair, she hopes her biggest accomplishment will be connecting students from USF with students at Universidad Nacional de San Antonio Abad del Cusco for long-lasting relationships. In the future she wants to become an RF engineer and contribute to that part of the field.

Kayla Allemang - Young Engineer of the Year Award



She is a Senior Engineer on the Transmission Services team at Seminole Electric Cooperative, Inc. in Tampa, Florida. Kayla graduated from the University of South Florida in 2013 with her Bachelor of Science degree in Electrical Engineering. Upon graduation, Kayla accepted a role in Transmission Planning where she performed modeling and analysis of Seminole's and its nine Member's high voltage transmission systems, including the responsibility of ensuring compliance with the applicable NERC Transmission Planning, Modeling, and Facilities Reliability Standards. In 2021, Kayla accepted her current role in Transmission Services where she coordinates Member substation and transmission projects, oversees Seminole's generation and transmission interconnection process, evaluates distributed solar projects, and assists with the transmission rate process. Kayla currently serves as secretary for the IEEE Florida West Coast Section PES/IAS and is a member of IEEE Women in Engineering.





IEEE SoutheastCon 2023

Engineering the Magic

Orlando, FL – April 13-16, 2023



IEEE SoutheastCon, the IEEE Southeastern US regional conference, will be Engineering the Magic in Orlando from April 13 to 16, 2023. We expect over 400 future electrical and computer engineering and computer science talent from Virginia to Florida to Alabama to attend and participate in multiple competitions such as a robotics, software, and circuit design. Also, over 300 faculty and graduate students will present technical papers in areas such as power systems, computing and communications, and artificial intelligence and machine learning.

Sponsorship and Exhibition Opportunities

Anchor Sponsor - \$24,000

Exhibition space (2- 6' x 1.5' tables with 4 chairs)
Complementary conference registration for 4 people
Placement of 2 pieces of literature and 2 gifts in delegate bag
Full-page conference program ad
Website recognition
Awards banquet recognition and seating for 4

Platinum Sponsor - \$12,000

Exhibition space
(6' x 1.5' table with 2 chairs)
Complementary conference registration for 2 people
Placement of 1 piece of literature and 1 gift in delegate bag
Half-page conference program ad
Website recognition
Awards banquet recognition and seating for 2

Gold Sponsor - \$6,000

Exhibition space
(6' x 1.5' table with 2 chairs)
Complementary conference registration for 2 people
Placement of 1 piece of literature and 1 gift in delegate bag
Quarter-page conference program ad
Website recognition
Awards banquet recognition and seating for 2

Silver Sponsor - \$3,000

Exhibition space
(6' x 1.5' table with 2 chairs)
Complementary conference registration for 2 people
Placement of 1 piece of literature and 1 gift in delegate bag
Eighth-page conference program ad
Website recognition
Awards banquet recognition and seating for 2

Exhibit Table \$1,500

Exhibition space (6' x 1.5' table with 2 chairs)
Complementary conference registration for 1 person
Website and conference program recognition
Awards banquet seating for 1

Additional sponsorship opportunities available

Sales Contact:

Joe Juisai - joe.juisai@ieee.org - +1-415-260-1980

<https://ieeesoutheastcon2023.org>



My Conversation with the Senior Member, Dominic Patruno

Interview with Dominic Patruno, an IEEE Senior Member by Timothy Earl, an Electrical Engineering student at the University of South Florida

I have had the pleasure to meet with one of IEEE's senior members, Mr. Dominic Patruno. He has been an IEEE member for over 13 years now and has acquired much knowledge and experience over this time. Dominic graduated from Pennsylvania State University with his master's degree in information sciences and Technology and is currently the Director and Chief Enterprise Architect at the very large and well-known company, Jabil. Dominic has a passion for what he does and absolutely loves the everyday tasks that his career involves. IT management is especially enjoyable for him as he has the ability to talk with many head executives and CEOs of the company as well as being able to travel globally and meet well-known people worldwide.

At Jabil, Dominic says they are always looking for new items to manufacture and possibly enhance the effectiveness of. When a product is advertised to Jabil, they will set a certain price margin to work with the owners of the product, and then possibly advise as to either change a part in the product or modify it so as to more easily manufacture and ship out more units in less time. Dominic specifically works in the field of "Enterprise Architecture", which looks at the enterprise as a system and is constantly working to enhance it. One project that was very interesting to Dominic specifically was a prosthetic component for a human skull that was needed in a hospital for a patient.

So Jabil was in charge of receiving the layout and design of the item, manufacturing the prosthetic component, and having it delivered in about a day for the patient to be treated at the hospital that requested it. It is all very interesting, and non-repetitive work at that company and as Dominic mentioned, "it is never the same activity each day".

In the meeting, Dominic had emphasized how important internships and experience in the workplace are especially in these last years at the university. He mentioned that it is essential to become involved in the workplace and that having that extra experience and knowledge will look great to people looking to hire upcoming engineers. It is also great to get experience with the politics and competition among companies in the real world and have a grasp of what is going on among competitors. He mentioned it is great to get to know the skillsets and tools used throughout the company which can also be a valuable asset when preparing to talk with other companies. Even volunteering was a recommendation to show other companies that the person is not only interested in the financial aspect of internships but rather just the drive to get experience in the industry.

As far as actual career options, Dominic recommended going after any opportunities that arise and feeling out what is the most enjoyable and profitable career. He had said that there were a few careers before his time at Jabil that were not so enjoyable and were very repetitive and boring every day, so it just takes time to find that one career that will check all of the right boxes.

Dominic is a very nice, respectable, and knowledgeable guy and there was much to be learned from his sharing of his career path and approach to the workplace. There is much that will be taken from his experiences and notes to remember when searching for internships and job opportunities.

Senior Member Roundup

Saturday, March 25, 12:00 pm - 5:00pm

OnLine

Contact / Questions: andrew.seely@ieee.org

hermann.amaya.us@ieee.org

STEM EXPLORER FESTIVAL EVENT

January 21, 2023

LARGO CENTRAL PARK

Article by Sean Denny (STEM Champion/RAS Chair),
and

Emma Alaba (Robofest Chair and RAS Photographer)

After bestowing the title of STEM Ambassador, the IEEE elevated my appointment as STEM Champion. The Florida West Coast Section Executive Committee (EXCOM) members supported my efforts and posted in the Signal Newsletter. I did the first Energy Event on September 1, 2022 with Dr. Sidney Martin and FWCS PES IAS Society.

Through the power of communication, it caught the attention of Dr. Catherine Mullins, Pinellas County Schools STEM Director for the Second event: STEM Explorer Fest at Largo Central Park on January 21, 2023.

We announced it through V-Tools and the Signal Newsletter to invite those who wished to participate. The FWCS Treasurer loaned me the IEEE FWCS Table cloth and flags on January 20th. The next morning, I arrived at 8 am to the Largo Cultural Center. I checked in, received a new T-shirt and met Dr. Catherine Mullins.

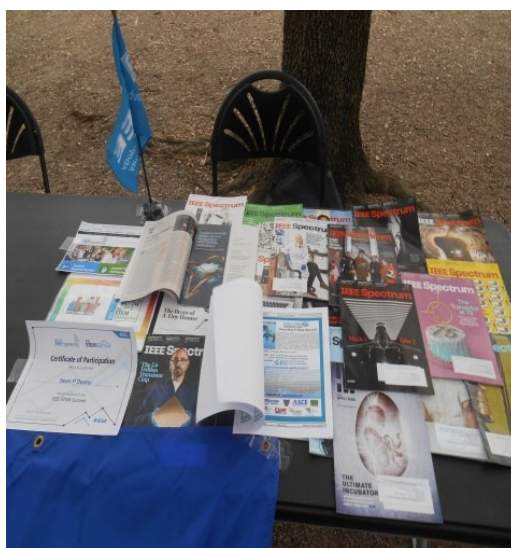
Volunteers helped me set two tables for my

booth. I laid out the IEEE table cloth and flags and taped them down because it was windy. I displayed extra back issues of IEEE Spectrum Magazine.

On the way back to the Cultural Center for doughnuts and juice, I had the pleasure meeting Nicole Stott, International Space Station Astronaut who lives in Clearwater. She was scheduled to be the keynote speaker at the upcoming Tampa Bay Engineers Week Banquet on February 16th. I also greeted teachers whom I had worked before with Robotics and Teacher In Service including Rose Mack, Dan Kinzer, and Dr. Sidney Martin.

The STEM Explorer Fest ran from 10am to 1pm. I shared the IEEE Booth with Robofest Chair Emma Alaba and IEEE Professor Dr. John Grant during the STEM Festival.

Emma Alaba invited our guests to participate in the next Regional Competition in Oldsmar on March 25, 2023 and distributed left-over 2017 World Championship Robofest shirts.



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I talked about why the IEEE is the biggest Professional International Organization, why we support computer networking standards and STEM education through the TryEngineering.org Website.

Regardless of whether or not a Student, Teacher, or Parent stopped by our booth, I was able to explain the advantages of searching the newly improved TryEngineering.com Website. I remember there was about 20 lesson plans in 2005 including Ohm's Law, Motor Controllers, and Building Robot Arms, now there are a couple thousand. Volunteers can subscribe to get email updates and post their surveys or events. The Florida West Coast Section and Region 3 have accomplished a lot for STEM. A colleague of Dr. Sidney Martin, Dr. Judith Deeley agreed that STEM and Robotics do go together.

Dr. John Grant, and his grandson, Ethan Smith, did UV Light demonstrations with multi-color pipe cleaners and UV-Sensitive beads, allowing the children to make their own UV-detector bracelets. A lot of people came by to learn about the

IEEE. Students would go by each booth participating in the demonstrations. We would sign the event flyer for their "passport." One family had a computer programmer for a father and the mother could build things. Emma said the children who inherit the skills really "got it made."

We collectively recruited for the FWCS & Robofest while doing TryEngineering demonstrations promoting Science Technology Engineering and Mathematics for Tampa Bay Education. We had a delightful time and each received a certificate of participation on the way home.

This made the day worth our efforts.

Sean P Denny

venner20@ieee.org

IEEE Senior Member

**Teacher In Service, R3 Florida West Coast
Section**

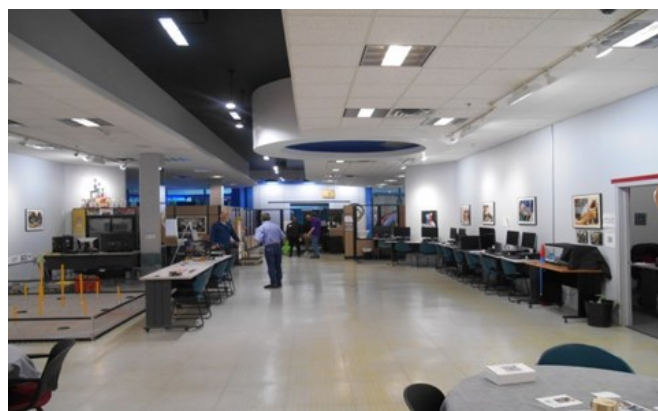
**Chair/Secretary, IEEE FWCS Robotics and
Automation**



AMROC TOUR
January 27, 2023
UNIVERSITY MALL, TAMPA, FL
Article by Sean Denny (STEM Champion/RAS Chair),
Theresa Willingham (AMROC Director)

I have worked with another STEM Champion in Tampa Bay, Theresa “Terri” Willingham and her husband Steve since 2010. She was the head coach of the home-schooled FIRST Robotics Team “Team Duct Tape” with their son. Later, they re-designed the old computer center at the John F Germany Library in Downtown Tampa and converted into “The Hive.” The IEEE FWCS Robotics and Automation Society (RAS) Chapter made our temporary home from 2014-2019 with monthly meetings to discuss robotics and host student robotics teams doing demonstrations.

Just before the Pandemic of 2020, they took over an old shoe store at University Mall near the USF Tampa Campus. It was converted into the AMROC FabLab, **Advanced Manufacturing & Robotics Center** (AMRoC) is a program of the non-profit **Foundation for Community Driven Innovation** (FCDI). They are participants at the annual Gulf Coast Maker Con and Roboticon Tampa Bay. Terri Willingham was recently interviewed about her fantastic background and the web-link can be found at: <http://voyagetampa.com/interview/edit-values-check-out-terri-willinghams-story>



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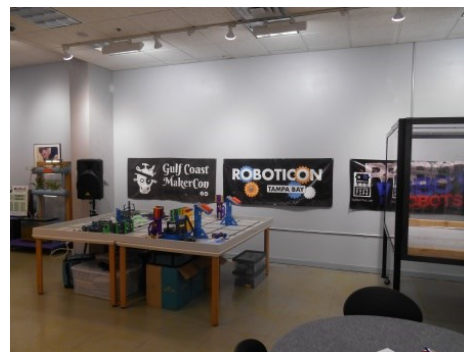
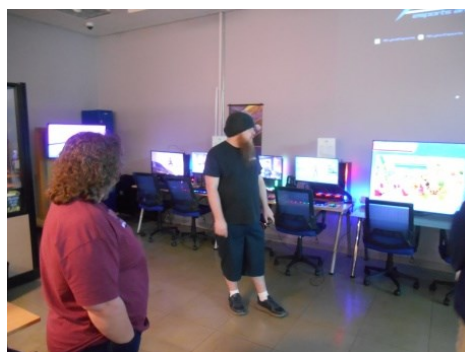
I was invited to come to University Mall on January 27th for the *AMROC Tour*. University Mall fell on hard times and most retail stores were gone. I found a group of tech leaders from Soaring City Innovation Partnership at the LT3 Lab in the center of the Mall. I introduced myself and what I do for the IEEE FWCS at STEM Champion and RAS Chair. The owner of the LT3 Lab said the 50 year old shopping mall is starting to get re-vitalized with new Educational Centers and some retained retail centers. I filmed Terri giving an overview presentation on the AMROC.

We went over the AmRoc center. There is a Video-gaming center, Drone Field, Sewing Machine Center, Laser Printers, and Robot Construction spaces. Steve Willingham showed me a few “robot arenas” that some students have built. Terri said one of

her former volunteers developed a Raspberry Pi Kit and has storage of a lot of kits. Another volunteer flew a drone around the room by remote control.

Terri invites us to the following: “**February 9-20th, we're hosting STEAMFest at the Florida State Fair**, where there will be lots to see and do, from robotics, to drones, to 3D printing, and more. Our next robotics event here will be March 4 when we host a FIRST Robotics Competition scrimmage in the mall. Our website calendar and events section should be fully updated this week so you can easily send people to it to see what's going on when and how to get involved -<https://amroctampabay.com/calendar/>”

I would recommend a tour of the AMROC for anyone.



Engineering in Medicine and Biology (EMB)

Florida West Coast Section Chapter

On January 27th the FWCS EMB Chapter was pleased to host a Distinguished Lecture event. The lecture, given by Professor Francesca Iacopi, discussed her work with graphene and highlighted some of the promising applications of graphene in various fields like battery technology, nano-optics, MIR sensing and detection, and sensors for brain computer interfaces.

The lecture was well received and drew an audience of 22 professionals from various industries & researchers in the area.

The attendees were also given a tour the new three story 120,000-square-foot Research Park Lab and office building located adjacent to the USF Campus. The tour concluded on the fourth floor's open terrace with a scenic view of Tampa's early evening skyline.





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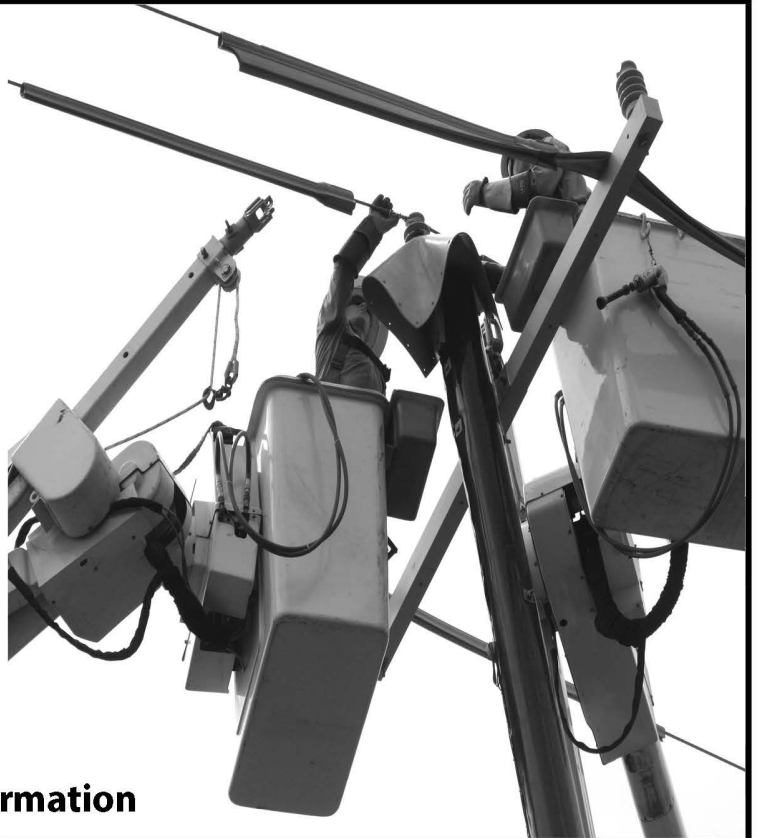
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March 2023 - Calendar of Events (For more information see "Inside the SunCoast Signal" → Page 1)

Sun	Mon	Tue	Wed	Thu	Fri	Sat
			1	2	3	4
5	6	7	8	9	10	11
		*FWCS ExCom →Page 1				
12	13	14	15	16	17	18
	*Signal Inputs Due End of Day					
19	20	21	22	23	24	25
					*Real-World... →Page 4	*SM Roundup →Page 10
26	27	28	29	30	31	
				*PES/IAS ExCom →Page 4		