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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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PE Corner

Art Nordlinger, PE, Life Senior Member

What is FEMC?

In last month's column I mentioned that the FEMC board has a current opening for a non-engineer public member and an upcoming opening for an engineer to serve. However, many in both the engineering and non-engineer communities don't know who or what FEMC is.

I'd guess that it's pretty-much universally understood, at least among the engineering community, that the Florida Board of Professional Engineers licenses engineers and regulates the practice of engineering. And it's probably a little less well known that the FBPE operates under the auspices of the Department of Professional and Business Regulation, which is a state agency.

Until July 1998, administrative and investigative functions for the FBPE were performed by DPBR employees. In 1997, the Florida Legislature determined "that the privatization of certain functions that are performed by the department for the board will encourage greater operational and economic efficiency and, therefore, will benefit regulated persons and the public."

Section 471.038, F.S. (97-312, Laws of Florida [L.O.F]), created the Florida Engineers Management Corporation (FEMC), a public-private partnership, for the purpose of performing staff duties for the Florida Board of Professional Engineers (Board). FEMC provides administrative, investigative, and prosecutorial services according to a contract with the Department of Business and Professional Regulation (DPBR).

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Next ExCom Meeting
Tuesday, August 1st, 2023
Google Meet
Register with vTools

<https://events.vtools.ieee.org/m/366251>

IEEE FWCS ExCom

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CS Computer Society, Chair: Andrew Seely, andrew.seely@ieee.org

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Sylvia Thomas, sylvia@usf.edu

MTT/AP/ED Microwave Theory & Techniques/Antennas & Propagation/Electron Devices Joint Chapter Dr. Jing Wang,
jingw@usf.edu

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Chair Robert Demelo, robert.demelo@ieee.org

RAS Robotics & Automation Chapter: Chair Sean Denny,
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SP/COMM Signal Processing / Communications Joint Chapter:
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FEMC is established as a nonprofit corporation with a seven-member board. The FEMC board is composed of five registered engineers appointed by the FBPE, and two laypersons appointed by the Secretary of DBPR. Like many statewide offices, FEMC board members are limited to serving two four-year terms. I am currently in my second four-year term on the FEMC board.

FEMC took over the administrative duties for the FBPE on July 1, 1998. As an integral part of the FBPR, FBPR and FEMC share resources including the Board's website. It may surprise many of you that for 25 years the FBPE support staff has been employed by FEMC and not by the State (DPBR) or the Board itself. I would say, though, that this transparency is indicative of the success of the arrangement. As required by statute, the Legislature must review the FEMC's performance and reenact the enabling legislation. To date, this arrangement has received favorable review and the Legislature has continued FEMC's mandate.

Additional information about FEMC and FEMC Board Members is available on the FBPE's website. And as I mentioned last month, if you, or someone that you know, is interested in serving on the FEMC board contact the office for an application.

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.

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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**Motor Bus Transfer (MBT) Seminar
IEEE Std. C37.96-2012
IN-PERSON**

Date: Friday, August 25, 2023
Time: 9:00am – 4:30pm (Eastern Time - New York)
Speaker: Tom Beckwith – Former CEO, Beckwith Electric Co, Inc.
Presentation: Motor Bus Transfer (MBT) Seminar - IEEE STd. C37.96-2012
CEH Credits: Seven (7) CEHs
Cost: Members: \$100/Non-members: \$200/Students: \$10
RSVP: Register at <https://events.vtools.ieee.org/m/360236>
Location: Seminole Electric Cooperative, Inc. – 16313 North Dale Mabry Hwy, Tampa, FL 33618
Questions: Robert DeMelo robert.demelo@ieee.org

This seminar will explore several new findings from recent research regarding motorbus transfer. Recent IEEE PSRCC work has demonstrated that a long-held transfer acceptance criterion has poor correlation to motor torque and gives passing grades to severely excessive torques upon transfer. Time-based transfer criteria are ineffective and permit severely out-of-phase transfers or conversely may preclude perfectly good synchronous transfers. A Motor Bus Torque Ratio metric is proposed as the aggregate peak torque at transfer expressed as a multiple of the aggregate load torque prior to transfer and displays a high correlation to the phase angle at transfer with little effect from voltage or frequency difference at transfer. If it is torque that reduces the life expectancy and damages motors or driven equipment, or both, as suggested in industry standards, then the industry must use a torque-based criterion to assess if transfers are being completed within acceptable torque limits.

The seminar will cover the following:

- ◆ Why Transfer Motor Load Sources
- ◆ Basic Applications: Primary-Backup, Main-Tie-Main, Multiple-Option Source Selection

- ◆ IEEE Std C37.96-2012 Motor Bus Transfer Classification – Methods & Modes
 - Automatic and Manual
 - Closed Transition Method – Hot Parallel Transfer
 - Open Transition Method - Fast, In-Phase, Residual Voltage
 - Open Transition Modes – Simultaneous, Sequential
- ◆ IEEE Std C37.96-2012 Conditions Across Normally Open Startup or Bus Tie Breaker
 - Effects of a Fault
 - Out-of-Step (OOS) Generator Trip
 - System Separation between Incoming Supply Sources
 - Supply Source Transformer Winding Phase Shift
 - Transient Effects upon Disconnect of Motor Loads
 - Motor/Load Characteristic Effects on MBT

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- ◆ Failed Residual Voltage Transfer – Case Study
- ◆ Transfer Initiate, Inadvertent External Operation, Lockouts
- ◆ Load Shed During Transfer
- ◆ ANSI/NEMA Standard C50.41-2012 Resultant per unit V/Hz Limits
- ◆ Bus Transfer Spin Down Testing, Acceptance Testing, Setting Considerations
- ◆ Spin Down Analysis & Settings Calculations – Case Study
- ◆ Sequential vs. Simultaneous Transfer, The Need for Speed – Case Study
- ◆ IEEE Fast Transfer Sync Check Relay Performance Test Protocol Results
- ◆ IEEE Residual Voltage Transfer Relay Performance Test Protocol Results
- ◆ Motor Bus Transfer System Dynamic Performance Test Protocol Results and Observations
- ◆ A Motor Bus Transfer Torque Ratio Criterion applied to Live Open Transition Transfers Under Normal Operating Load Conditions - Observations and Conclusions
- ◆ Test Results from Modeling of Transient Currents and Torques on Motors during Residual Voltage Motor Bus Transfer

Tom Beckwith - Tom has over fifty years' experience in the electric power industry. As CEO of Beckwith Electric Co. from 2009 to 2020, Tom provided the leadership to develop and implement strategies for product development, marketing, sales, manufacturing, quality control and staffing.

Through the Beckwith Electric Center for Learning, he has travelled around the U.S. and the world presenting Protection & Control seminars to power companies and industrials.

Tom has a Bachelor of Science degree in Electrical Engineering (BSEE) from Case Western Reserve University and a Master of Business Administration (MBA) degree from the University of South Florida. He is a member of the IEEE PES/IAS, Petroleum & Chemical Industry Committee, and has co-authored three papers for the IEEE Transactions on Industry Applications.

Since 1972, he has served on working groups in the IEEE PSRC, Transformers Committee and the IEEE IAS Industrial & Commercial Power Systems Committee. He is co-inventor of a U.S. patent on a

IEEE FWCS PES/IAS ExCom

Thursday, August 31st, 6:30 am – 7:30 am

Virtual

<https://events.vtools.ieee.org/m/333493>

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

SAVE THE DATE

USF College of Engineering

15 September 2023

Join the IEEE Computer Societies of Florida West Coast Section, University of South Florida, and Florida Polytechnic University for a technical program featuring IEEE Computer Society president-elect Jyotika Athavale.

Questions: Andrew Seely, andrew.seely@ieee.org



Tour – TECO Big Bend Modernization

- Date:** Friday, September 29, 2023
- Time (EST):** 9 am – noon (lunch to be provided)
- Speaker:** Marnix A. Groenendijk, PE
Engineer – Power Generation, Tampa Electric Co. (TECO)
- Location:** Big Bend - 603 Big Bend Rd, Apollo Beach, FL 33572
- Cost:** \$20 Members/\$40 Non-Members/\$10 Students
- CEH Credits:** No CEH's provided for this event.
- RSVP:** <https://events.vtools.ieee.org/m/365627>
Limited to 20 Attendees
- Questions:** Richard Beatie - r.beatie@ieee.org
Ryan Copley – rcopley@tecoenergy.com

The IEEE Florida West Coast Section Life Members Affinity Group (LMAG) and Power & Energy Society/Industry Applications Society (PES/IAS), in collaboration with TECO is bringing to the IEEE community this awesome behind the scenes tour of the Big Bend Modernization Project located in Apollo Beach. This is a great event for Life Members to get connected with fellow IEEE Members and the community.

Tampa Electric (TECO) completed the Big Bend Modernization project safely, on time and under budget. Big Bend Unit 1 is now the most efficient generator in Tampa Electric's fleet. The project has repowered Big Bend Unit 1 with state-of-the-art combined-cycle technology and has eliminated coal as that unit's fuel. Construction began in August 2019, and the project came online Dec. 16. Crews worked more than 3.5 million hours with no lost-time injuries.

The project is capable of producing 1,090 megawatts (MW), which is enough energy to power more than 250,000 homes. The company also retired Unit 2, and Unit 3 will retire in spring 2023. Unit 4 remains in operation with coal or natural gas. "This project is improving the land, water and air emissions at Big Bend, and it is a continuation of TECO's great environmental record," said Archie Collins, president and chief executive officer of Tampa Electric. "This investment in cleaner energy will provide significant savings to customers – and will further reduce our use of coal."

****IMPORTANT**** As participants register for this event, please note that ALL attendees will be responsible for supplying and bringing their own personnel protective equipment (PPE) including steel-toe boots, cotton shirt and pants, hard hat, and safety glasses.



Florida Laws & Rules and Ethics for Professional Engineers

Date: Thursday, October 26th, 2023

Time: 10:00 am-noon

Cost: \$30 IEEE Members / \$60 Non-Members / \$10 IEEE Student Members

Speakers: Mr. Art Nordlinger, PE,

IEEE Representative to the Florida Board of Professional Engineers

Presentations: The Rules and Laws That Govern the Practice of Engineering in Florida

Ethics and the Practice of Engineering in Florida

CEHs: One (1) Rules & Laws CEH will be awarded; and

One (1) Ethics CEH will be awarded, which will meet the current requirements for PE Renewals.

Be sure to enter your name and PE number on the signup website as it appears on your license.

IEEE Florida Provider Number is 0003849.

Location: This seminar will be presented virtually

Registration: Register at <https://events.vtools.ieee.org/m/359432>

Questions: Art Nordlinger: a.nordlinger@ieee.org or Robert DeMelo: Robert.demelo@ieee.org

Abstract: The Rules and Laws That Govern the Practice of Engineering in Florida. This course is at a basic to intermediate level.

- ◆ Florida Statute 471 – Engineering
- ◆ FBPE and FEMC
- ◆ Florida Administrative Code
- ◆ Updates from NCEES and FBPE

Ethics and the Practice of Engineering in Florida. This course is at a basic to intermediate level

- ◆ Basic Engineering Ethics Precepts
- ◆ Florida Administrative Code 61G15
- ◆ Recent Cases and Examples

Art Nordlinger, PE, who recently retired after a rewarding career in the electric utility industry, was most recently the Manager of Transmission Tariff and Contracts at Tampa Electric Company. Art earned a Bachelor of Science degree in Electrical Engineering from Northwestern University in 1979 and his Master of Engineering degree in Electric Power Engineering in 1988 from Rensselaer Polytechnic Institute. Art is a Life Senior Member of IEEE, Past Chair of the Florida Engineers Management Corporation (FEMC), and a registered PE in the State of Florida.



Eta Kappa Nu

Carolyn (Carrie) Root, PhD Inducted into the HKN Society

HKN: An Unexpected Honor

As a member of Florida West Coast Section of the IEEE, I wanted to share with you that I was inducted into the Eta Kappa Nu Society of the IEEE at the Region 3 Annual Conference in April.

It was a surprise to me to be asked. I have worked most of my career as an analyst with a BS in physics, and later as an engineer and high level consultant once receiving my advanced degrees in mechanical engineering (MS in acoustics, Ph.D. in fluid dynamics). I've been a member of IEEE since being invited to speak at the Women in Engineering Annual Forum in Washington, DC at their annual Forum in 2019.

My HKN invitation came from my work with engineering students and WIE. Drs. Bala Prasana (IEEE) and Greg Gdowski (IEEE Region 1), both HKN members, at a conference at the University of Rochester in February this year, encouraged me to apply.

The ceremony was full of meaning for the two of us being inducted. We pledged to uphold the ideals of HKN. We signed the HKN book. We were awarded certificates and pins. And then we were photographed in the large group with other HKN members.

My career has been a bit of a random walk, like my degrees. I worked for the first 15 years of my career in industry, first doing analysis work on acoustic sensing systems at A&T and Bolt Beranek and Newman, followed by a systems engineer job which led to a test manager position for submarine combat system for IBM. IBM rewarded my work by sending me for a Ph.D. through their resident study program. After receiving my Ph.D. from Catholic University, I spent the next 25 years working as a high-level trouble shooting consultant for acquisition commands at Navy Air.

I've always been motivated by a challenge. That was a career distinguisher.

I believed that my success as a consultant came from not worrying about failing at a task no one else was willing to tackle and by always being brutally honest about what I thought. To do that, I always worked two jobs simultaneously, or in the words of a consultant, I always had two clients. My primary client was the Navy and a second client that would periodically change based on need and interest. All my business came from word of mouth, and I had the enviable position of being able to choose my work based on my interest in the task, as well as whether I liked the people I was going to work with. I had the opportunity to work for a Federally Funded Research and Development Center (FFRDC) analyzing the impact on DoD systems when the acquisition underwent major reforms in the 1990s. I worked on radar testing systems for aircraft. I even got a job on a golf course—the Navy Captain in my foursome offered me a job working on the on the NASA/NOAA weather constellation system National Polar-orbiting Operational Environmental Satellite System (NPOESS). The position was the lead budget person for the Naval contingent. His observation was that I'd done everything else for the Navy, I might as well do budgeting.

After many decades of 40 weeks a year of travel, I decided it was time to do something different—I left my consulting job, moved to Florida, I returned to the renamed NASA/NOAA weather constellation system, Joint Polar Satellite System (JPSS), as sensor manager for two of the sensors aboard JPSS, and I settled in to a nice life just working part time and enjoying semi-retirement.

My semi-retirement didn't last long.

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During my days as a troubleshooter with the Navy, I noticed issues in how older and younger generations were working together. In my semi-retirement I also had become involved with the Rotary club in my newly adopted hometown and found that many individuals who worked to get through community college weren't getting a look from the larger employers in the area. In the words of one recruiting manager, "We find diamonds in the rough, but they were too rough." The spare time I now had allowed me time to think and reflect. That led me to start my company, Alpha UMi, to provide high level, transformative soft skills and leadership training to individuals who need it. In my observation, we all need to work on our soft skills.

I currently give workshops, and work with my company to develop the skills training workers need for career success and sustainability.

The community we serve is from high school through the C-Suite. I work with community colleges and workforce development organizations. Our content is used by universities in their continuing education departments. We also give training direct to industry.

Early in the pandemic, I had the privilege to work with this section's hard charging women, Diana Aristizabal, Diana Jandreski, and Ammara Ghani, who started WINC. We gave seminars in leadership to the Young Professionals and engineering students in Pakistan in joint sessions via virtual classroom. WINC, the Women In Engineering International Network Connections, is IEEE WIE Florida West Coast Section's outreach arm, to engage others for networking, professional development and to raise the awareness of IEEE and WIE.

It is an honor to be accepted into the HKN community. And it is an honor to be able to share my story with you.

Carolyn (Carrie) Root, Ph.D., HKN

IEEE Pre-University STEM Community

The IEEE Pre-University STEM Community (PreU STEM) unites educators, volunteers, and STEM enthusiasts who are passionate about science, technology, engineering, and mathematics (STEM) at the pre-university level. Our global community provides you with access to a wealth of resources, networks, and expertise that will help you engage in STEM education.

The IEEE Pre-U STEM Community offers the opportunity to participate in a variety of exciting activities, funding opportunities, contests, recognition programs, webinars, and events that are designed to support, challenge, and inspire you. You'll also have the chance to connect with like-minded peers from around the world, as well as with educators and volunteers who are dedicated to mentoring and supporting the next generation of STEM innovators and problem solvers.

Sean Denny STEM Champion



Insights on developing a successful research career in Healthcare and Rehabilitation Robotics

An interview with Prof. Dr. Cristina Piazza, IEEE Senior Member, by Riddhiman Laha, fourth-year Ph.D. candidate at the Technical University of Munich, Munich Institute of Robotics and Machine Intelligence.

In order to revitalize my professional and personal work plan of pursuing a research path in human-centered robotics, I recently utilized the opportunity given by IEEE Region 3 Florida West Coast Section (FWCS), to speak with IEEE senior member Prof. Cristina Piazza who holds the chair for Healthcare and Rehabilitation Robotics (tenure track assistant professor) at the Technical University of Munich. Our fruitful conversation spanned various exciting topics that are worthwhile to budding roboticists and engineers that would help pave the way to a prosperous research career.

Firstly, I wanted to go back in time and learn some of the interesting choices that shaped Prof. Piazza's scientific peregrination. As a youngster, she was always inclined toward impacting people's lives; her family was also involved with an organization that helped children with disabilities. Throughout her growing up years, she was exposed to various ideas and people who were interested in machines that empower human movement. These events reinforced her interests in healthcare and assistive technologies.

Prof Piazza earned her bachelor's degree in biomedical engineering from the University of Pisa. During her undergraduate studies, she was strongly motivated to perform research and write her bachelor's thesis on rehabilitation robotics. Her wishes came true, and she found her way into the "Centro E. Piaggio" (led by Prof. Antonio Bicchi), where she started exploring soft robotics technologies. After analyzing the problem from different perspectives, like design and fabrication and human motor control principles, she developed a novel assistive robotic hand. Her innovative scientific contribution was recognized with the Best Paper Award at Humanoids 2012.

Prof Piazza's continued interest in exploring research environments at the international level, combined with her vocational ambition, led her to her Master's degree in Robotics and eventually her

PhD which she earned from the University of Pisa. Her research thread was always focused on translating the same principles, which she had discovered early on during her scientific endeavors, to more intelligent robotic hands. This led to a systematic improvement of the generalization capability of the developed scientific technology.

Her research stay at the Shirley Ryan AbilityLab, formerly the Rehabilitation Institute of Chicago (RIC), was pivotal in strengthening her proficiencies in advanced control methods for intelligent prosthetics. The unique aspect of this exchange was the exposure to the world's first "translational" research hospital, where she was able to work with clinicians, engineers, doctors, and technologists. During this transient yet efficacious stint of seven months, Prof. Piazza focused on mechatronics design with focus on prosthesis for (upper) limb loss. More specifically, Myoelectric sensors were exploited to design closed-loop intelligent systems for rehabilitation purposes. Finally, continuous feedback from therapists and doctors helped strengthen weak points from different perspectives including user feedback.

As far as accomplishments are concerned, Prof. Piazza has won esteemed awards at various levels. Her Ph.D. thesis titled "On the design and control of soft robotics enabled prosthetic hands" won the best Ph.D. thesis at the University of Pisa. She has also been awarded a travel grant (Dr. Kanako Miura award) from IEEE at Humanoids 2016. She has led a team in Cybathlon 2020 Powered Arm Prosthesis Race, where the team was awarded the silver medal. The challenge was real-world oriented where the designed assistive device would allow the participant to complete 6 daily tasks with minimum time. Under her leadership, the team was able to find a sweet spot between complexity and performance. This allowed the participant to perform grasping action in a more robust fashion.

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Throughout her scholarly journey, IEEE has played a significant role in organizing events with leaders in academia as well as industry. She feels this helped her to be connected to various researchers and understand the challenges in the community.

Her advice for the up-and-coming engineers is to be always open, curious, and connect with people from different backgrounds. One of the things that she would do differently if given another chance to go back in time is invest more time in networking, not be afraid of getting exposed and garner more visibility in the scientific community.



Professor Piazza with her Team at Cybatlon 2020

Senior Member Roundup

Saturday, August 26, 12:00 pm - 4:00pm

Registration Link will be provided

Check the Website Calendar (right hand column): <https://r3.ieee.org/fwc/>

Contact / Questions:

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Consultants Network

Entrepreneurship Series Webinar #2: How to Start and Expand a Successful Consulting Practice or Business

Date: Friday, August 25, 2023
Time: Webinar: 12:00PM – 1:00PM (EST/EDT)
Speaker: William R. Kassebaum, P.E. – President/CEO – The Kassebaum Group Inc.
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/364979>
Questions: Diane Aristizabal, dianaaristizabal@ieee.org

Starting a business requires some planning and forethought. Just like a product or system we might design, the effort of building a business requires changing, adapting, and evolving. In a system design, we might call that an evolutionary spiral where we are constantly drafting the requirements, designing, implementing, and testing - and back around again. As we grow a business practice, we go through the same stages.

Your business should iterate through all these concepts as it grows - re-evaluating, improving operations, and automating repetitive business operations. These topics and methods apply regardless of the type of business you are building - whether a consultancy, a product company, or service business.



Will has over 35 years working in the private and government sectors, Will has extensive systems & computer (HW/SW) engineering, Electrical Power Engineering, Executive and Operations Management, Program Management, and entrepreneurial experience.

This webinar will cover 3 main topic areas:

1. Steps to forming a new business - forms of business, evaluation of the business model, and initial planning & goal setting;
2. Marketing, sales, operation, and getting paid;
3. Tips and tools to improve operations, efficiency, and ROI.

Will is an experienced technologist and computer hardware/software engineer - system architect, project/program manager, and broad technology specialist. Will has been the founding CEO of several Indianapolis-based technology companies. His pioneering work at the Naval Air Warfare Center earned him and his team the prestigious National Performance Review "Heroes Of Government Reinvention" award presented by the Secretary of Defense, the Chairman of the Joint Chiefs of Staff, and the Vice President of the United States.

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While working with private companies such as Escient, he has led teams that developed award-winning products. Mr. Kassebaum holds a Master's Degree in Electrical Engineering from Purdue University and is a licensed Professional Engineer in the State of Indiana.

He is a past Chair and Director of the Central Indiana Section of the IEEE. And served on the IEEE

-USA Board of Directors as Vice President Career & Member Services 2014-15, and as a corresponding member of the Entrepreneurship & Innovation Policy Committee of the IEEE-USA, a Founder and Co-Chair of the Central Indiana Engineering Consultants' Network, and is a Past Chair and member of the Alliance of IEEE Consultants' Networks (AICN), a committee of the IEEE-USA.

FWCS Computer Society Chapter News

The FWCS Computer Society is now a stand-alone society chapter. For several years Computer Society was a joint chapter with the IEEE Aerospace and Electronic Systems Society (AESS). Effective June of this year the joint chapter is separated and Computer Society and AESS are distinct entities.

This reflects the increasing activity and engagement of Computer Society. Congratulations to both Computer Society and AESS for this big step! Contact Computer Society co-chair Andy Seely, andrew.seely@ieee.org, to get involved with the chapter.

Careers In Tech (CIT) Summer Series

The FWCS Computer Society is partnering with the Northwest Florida Section Computer Society to host a summer series of distinguished lecturers in Computer Science and related topics. Special thanks to Michael Viron, Chair of the NWFS Computer and Communications joint society chapter.

Thursday, 8/3 6:30 pm, **Why Software Fails and Why AI cannot Help.**

<https://events.vtools.ieee.org/m/364005>

Thursday, 8/10 6:30 pm, **Trust and Privacy Vulnerabilities of Today's Online Social Networks.**

<https://events.vtools.ieee.org/m/364004>

Thursday, 8/17 6:30 pm, **The Generations of Computing and the Coming Data Age.**

<https://events.vtools.ieee.org/m/364007>

Thursday, 8/31 6:30 pm, **The History of Visual Magic in Computers: How Beautiful Images are Made in CAD, 3D, VR and AR.**

<https://events.vtools.ieee.org/m/364008>

Andrew Seely (he/him)

andrew.seely@ieee.org

IEEE Senior Member

IEEE HKN Member

MGA Admissions and Advancement Committee Member

Region 3 Senior Membership Coordinator

Region 3 Florida West Coast Section Computer Society Chapter Chair

Region 3 Florida West Coast Section Vice Chair

IEEE Standards Working Group P1228 Secretary

Save the Date
IEEE Florida West Coast Section
Year End Gala
Saturday, October 28, 2023
St. Petersburg Yacht Club
Inviting ALL Active Members to participate in the Year End Gala
to celebrate the Section Success

SunCoast Signal Advertising Rates

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August 2023 - Calendar of Events <i>(For more information see "Inside the SunCoast Signal" → Page 1)</i>						
Sun	Mon	Tue	Wed	Thu	Fri	Sat
		1	2	3	4	5
		*FWCS ExCom →Page 1		*CIT Series Page→12		
6	7	8	9	10	11	12
	*Signal Inputs Due			*CIT Series Page→12		
13	14	15	16	17	18	19
				*CIT Series Page→12		
20	21	22	23	24	25	26
				*CIT Series Page→12	*MBT Seminar →Page 3 *Entrepreneurship →Page 11	*Sr. Member Roundup →Page 10
27	28	29	30	31		
				*PES/IAS ExCom →Page 7 *CIT Series →Page 12		