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IEEE

THE SUNCOAST SIGNAL

THE INSTITUTE OF ELECTRICAL AND ELECTRONICS ENGINEERS, INC.

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FWCS SENIOR MEMBER ELEVATION PROGRAM

REQUEST FOR SENIOR MEMBER REFERENCE PROVIDERS

The Florida West Coast Section of IEEE through the Consultants Network Affinity Group (CNAG) is planning to conduct an aggressive Senior Member Elevation program in order to provide our members with the opportunity to be elevated to the highest rank that a Member can apply for within IEEE.

We have identified a large number of eligible IEEE Members from our Database who meet the basic requirements for Elevation and we would like to ask our current Senior Members to come forward to assist us at this time to serve as Reference Providers in the evaluation process of our Senior Member Candidates requesting that they be Elevated to this rank.

It is important for these Reference Senior Members to remember that at one time they required the cooperation on other Senior Member is to serve as Reference Providers and give selflessly from their busy business schedule in order to assure that their candidates attained their objective.

On this thought, if you are an IEEE FWCS Senior Member and would like to contribute to this program by becoming a Reference Provider, kindly contact by email:

Hermann Amaya, Consultants Network Chair
hamaya@tampabay.rr.com

Include in your email, your member number, availability, phone number at best time when you could be contacted for a chat and information about the Senior Member Elevation Program.

PE Renewals Due February 2019
18 CEHs required for renewal
Check the FWCS Signal
for opportunities to earn CEHs

Upcoming Meetings

EXCOM Meeting

Tuesday, September 4, 2018 5:30PM at TECO Plaza
Register online at <http://time2meet.com/fwcs-excom/index.html>

Open to all FWCS Members

2017 IEEE EXECUTIVE COMMITTEE - FLORIDA WEST COAST SECTION**CHAIR:** Claude Pitts - claudie.pitts@ieee.org**VICE CHAIR:** Paul Belussi - paul_belussi@selinc.com**SECRETARY:** Sean Denny - venner20@ieee.org, (727) 678-0183**TREASURER:** Jim Howard - jhoward@ieee.org, (863) 834-6585**SIGNAL EDITORS:** Ralph Fehr - r.fehr@ieee.org,
Donna Howard - amberdon3133@gmail.com, (813) 924-2024**AWARDS & BYLAWS:** Richard Beatie, PE - r.beatie@ieee.org**MEMBERSHIP:** Jim Howard - jhoward@ieee.org, (863) 834-6585**TEACHER IN-SERVICE:** Sean Denny - venner20@ieee.org, (727) 678-0183Computer / Aerospace & Electronic Systems (**COMP/AESS**) Joint Chapter:
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vassellr@mail.usf.edu**CONFERENCES:** Richard Beatie, PE - r.beatie@ieee.org**WEB PAGE:** <http://sites.ieee.org/fwcs/>**WEB MASTER:** Herman Amaya - hamaya@tampabay.rr.com

THE SUNCOAST SIGNAL is published monthly by the Florida West Coast Section (FWCS) of the Institute of Electrical and Electronics Engineers, Inc. (IEEE). THE SUNCOAST SIGNAL is sent each month to members of the IEEE on Florida's West Coast. Annual subscription is included in the IEEE membership dues.

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All material for THE SUNCOAST SIGNAL is due in electronic form by 1st Sunday after the 1st Tuesday of the month preceding the issue month.

Address all correspondence to:

Donna Howard

3133 W Paris Street Tampa, FL 33614-5964

Home Phone: (813) 876-1748 E-mail: amberdon3133@gmail.com**The Signal, Copyright © 2018****Useful links:**<http://www.ieee.org/benefits> Global Benefits Finder<http://www.ieee.org/discounts> Discounts Page**PE Corner**

Art Nordlinger, PE, Senior Member

License Renewal

We're almost there; license renewal time. This rite of passage occurs every two years, and every cycle is a little different. You must renew your license on or before February 28, 2019. The renewal process officially opens Monday, November 5, 2018.

License renewal is accomplished on the Florida Department of Business and Professional Regulation's website, www.myfloridalicense.com. Though you can't renew your license yet, you can go to this website at any time to verify and update the information that the Department has on file for you. You can also confirm that your login is working as expected. Most folks, I would guess, haven't logged on or looked at their information in nearly two years. Now might be a good time to check that everything is as expected to avoid any surprises when you are trying to renew, especially if it's coming down to the wire!

The renewal fee for the next biennium is \$98.75. But the Board has a deal for you! If you renew by January 15 you will get a \$10 discount! The Board decided to offer this discount to ease the burden on staff, as most renewals came in in the last week before the deadline.

More challenging may be the continuing education requirement. For the next renewal, you will need to have completed eighteen (18) Continuing Education Hours (CEHs), which includes one (1) hour related to Florida engineering practice laws and rules, one (1) hour related to professional ethics, four (4) hours related to the engineer's area of practice, and the remaining twelve (12) hours related to any topic pertinent to the practice of engineering. Note that if you received your license by examination during the April 2017, October 2017, or April 2018 exam administrations, you are not required to complete continuing education during this renewal. However, you must set up or update your account on myfloridalicense and pay the renewal fee.

If you haven't taken your Rules and Laws and Ethics hours, your Florida West Coast section has an opportunity for you. We will be offering the "highly acclaimed"* one-hour *Rules and Laws That Govern the Practice of Engineering in Florida* and one-hour *Ethics and the Practice of Engineering in Florida* on November 9th in Tampa. See the section's website for details.

Last, one more change is that the Board will no longer mail you a paper certificate when you renew your license. They will be emailing the certificate (which you can print out), saving many hours of stuffing envelopes, postage and a number of trees. You also might want to preserve your last paper license received from the Board as they become relics of past history.

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. And for the PEs, don't forget that the next renewal deadline is only 4 months away. Better start earning those CEHs now!

*The author is also the instructor for these classes.

Leader's Center

Organizational Change—Seven Challenging Situations (Part 4)*

Paul Schnitzler, Ph.D—Life Senior Member

This month I will show how even one of the toughest situations, a very urgent project, can benefit from effective change methods—the Hurried Leader's story.

In this example, you are the president of our company and you just learned that a major competitor will be exhibiting a new competing product at an upcoming EXPO. Your engineers have an excellent new product coming along but the timing is all wrong; it won't be ready in time for the show! Now you decide we simply must have it for the show.

You have been reading the Leader's Center articles and believe that they make sense. However, you are sure that to follow those methods will take time and delay the project. And you just don't have that time.

So you dive in and tell them what each person is to do and tell them how important it is to get it done on time. There! All set; things will now get done and we will make the EXPO date.

Well...maybe.

If all issues have been included; if there are no surprises; and if everyone digs in and works hard, then, okay.

I think that those are big "ifs" but suppose that:

Anthony injured his foot and will be out for a month.

Marianna got a new job and is leaving in two weeks.

Your memory chip supplier hit a snag in production and parts will be late.

And...?

Time is running out. The EXPO won't wait. Talk about sleepless nights.

Look at what can happen if you used the YESIAM. Granted you satisfy the Y and E, let's look at the rest:

Seek their ideas. There may be ways that you did realize which could make the project better and get done faster.

Include everyone. Keep them informed about how things are going; continually see their ideas. Show them how important *they* are to the company?

Ask for their help. Offer them opportunities to run a part of the project and help it move more quickly?

Manage your concerns by jointly planning how they can keep you informed...without you micromanaging the project.

Here is how it could work with YES I AM:

When Anthony is injured, he might say, "Look, this is important. Here are some things I can do from home. Will that help?"

When Marianna gets a new job, she might think "You care about us. I don't want to leave you in the lurch." She might offer to stay on for a few more weeks to see the project through.

When the memory chips become unavailable, your team might pitch in. Some immediately begin to seek alternative suppliers while others work on possible circuit changes to accommodate chips which *are* available.

Everyone wants this to succeed and that means on time!

You have shown that you value them and they want to prove that your trust is justified!

Do you think you might want to use the YES I AM model? Go for it!

So much for the Hurried Leader. Next month I will look at other ways to be a more successful leader.

* * *

Don't want to wait? Then go to <http://leadchangewithoutfear.com/> and check the tab "Successful Real Change." Also look for the Young Professionals meeting described elsewhere in this Signal, on Page 7.

* Excerpted from *Lead Change without Fear* by Paul Schnitzler

IEEE-USA's August free e-book for members, *Developing Your Path—A Guide to Landing Your Dream Career*, is a cornucopia of solid, practical information. Topics range from choosing a college or university, and the value of internships; to writing an effective resume; the interview process; and the importance of LinkedIn, the online business professionals' network.

When author John Collins says that working on cool technologies may be the best thing about being an electrical engineer, he's speaking from personal experience. Collins is currently a People Manager at FlixBus in Berlin, one of the largest travel startups in Europe.

The book's information is organized into 15 chapters. In "Choosing a College," high school students can learn what Collins believes are the benefits of attending a top-tier institution. For example, the school has a world-class faculty, and you're a known entity upon graduation. "Certain employers may also heavily recruit from certain schools," writes Collins, "so no matter the university you choose—become a member of the alumni association." He advises that alumni memberships offer a vast array of people you can network with for future jobs. Fellow alumni can also become mentors, or even help you find things to do, when you move to a new city.

High School students, or recent graduates; engineering students, or working professionals—this career guide is worth owning and reading—and reading again.

From 1 August thru 15 September, IEEE members can get their free August E-Book by going to: <https://ieeusa.org/shop/careers/new-ebook-developing-your-path-a-guide-to-lakding-your-dream-career/> . Log into your IEEE Web Account and use promo code **AUGFREE18**.

 IASSE IEEE INDUSTRY APPLICATIONS SOCIETY		 IEEE PES Power & Energy Society™
<u>Cyber Security Fundamentals & Case Studies</u>		

Date: Friday, September 7, 2018
Time: Registration & Light Breakfast: 8:30AM - 9:00AM
Seminar: 9:00AM - 2:00PM
Speaker: John McDonald, PE - Director, Technical Strategy and Policy Development
GE Digital Energy
Location: FRCC 3000 Bayport Drive., #600, Tampa, FL 33607
Parking: Use parking lot for Hyatt (North side only).
Cost: \$100 Members, \$200 Non-Members, \$20 Students. Includes Light Breakfast, Lunch.
CEH Credits: 4 Continuing Educations Hours will be awarded. Be sure to enter your name and PE number on the signup website as it appears on your license.
RSVP: Online at <http://time2meet.com/fwcs-pes2/index.html> (Select Reservations)
Make checks payable to: IEEE FWCS
Send checks to: Jim Howard, IEEE FWCS Treasurer
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Grid Modernization: Technological Advancements Beyond Smart Grid

The seminar will begin with familiarizing participants with a vision for Grid Modernization, focusing on technological advancements beyond Smart Grid. The technological advancements include discussions of key industry/societal trends, Smart Grid concepts, holistic solutions, integration of microgrids and distributed generation, and Advanced Distribution Management System (ADMS) software applications. The seminar will also cover feeder automation business models, managing different types of data, big data, analytics, enterprise data management, Smart Grid standards and interoperability, and Smart Grid deployments and lessons learned.

Cyber Security and Privacy of Information – Principles and Case Studies

Once the foundation is laid, the seminar will discuss the NERC CIP security standards, including the current standards and looking into the future. An introduction to cyber security will include understanding the threats, consequences and risks, and factors of authentication. The first case study will review hacking of a GE industrial Ethernet switch – lessons learned and the flowchart for the secure development lifecycle of developing a product. The second case study details the anatomy of the Ukraine power outage, including the actions the hackers took to gather information, prepare for the attack, and conduct the attack. The seminar will focus on the lessons learned. Privacy of information will then be discussed, and the seven foundational principals of the Privacy by Design model will be reviewed. The Privacy by Design model was incorporated into GE's Smart Grid technology deployed at Hydro One for their Advanced Distribution System project. The seminar will conclude with how GE operationalized Privacy by Design with the Ontario Smart Grid case study.

		
<h2 style="color: red; margin: 0;"><i>Speaker Bio</i></h2>		



John D. McDonald, P.E., is Smart Grid Business Development Leader for GE Power’s Grid Solutions business. John has 44 years of experience in the electric utility industry. John joined GE on December 3, 2007 as General Manager, Marketing for GE Energy’s Transmission and Distribution business. In 2010 John accepted the new role of Director, Technical Strategy and Policy Development for GE Digital Energy. In January 2016 John assumed his present role with the integration of Alstom Grid and GE Digital Energy to form GE Grid Solutions.

He is a sought-after industry leader, technical expert, educator, and speaker. John was elected to the Board of Governors of the IEEE-SA (Standards Association), focusing on long term IEEE Smart Grid standards strategy. John was the Chair of the Smart Grid Interoperability Panel (SGIP) Governing Board for 2010-2015 (end of 1Q) coordinating Smart Grid standards development in the US and global harmonization of the standards. John is a member of the NIST Smart Grid Advisory Committee.

John is Past President of the IEEE Power & Energy Society (PES), Past Chair of the Smart Energy Consumer Collaborative (SECC) Board, the VP for Technical Activities for the US National Committee (USNC) of CIGRE, and the Past Chair of the IEEE PES Substations Committee. He was on the IEEE Board of Directors as the IEEE Division VII Director. John is a member of the Advisory Committee for the annual Distrib-uTECH Conference, on the Board of Directors of the GridWise Alliance and Chair of its Technical Committee, Vice Chair of the Texas A&M University Smart Grid Center Advisory Board, and member of the Purdue University Strategic Research Advisory Council. John received the 2009 Outstanding Electrical and Computer Engineer Award from Purdue University.

John teaches a Smart Grid course at the Georgia Institute of Technology, a Smart Grid course for GE, and substation automation, distribution SCADA and communications courses for various IEEE PES local chapters as an IEEE PES Distinguished Lecturer. John has published 80 papers and articles in the areas of SCADA, SCADA/EMS, SCADA/DMS and communications, and is a registered Professional Engineer (Electrical) in California, Pennsylvania and Georgia.

John received his B.S.E.E. and M.S.E.E. (Power Engineering) degrees from Purdue University, and an M.B.A. (Finance) degree from the University of California-Berkeley. John is a member of Eta Kappa Nu (Electrical Engineering Honorary) and Tau Beta Pi (Engineering Honorary), a Life Fellow of IEEE (member for 47 years), and was awarded the IEEE Millennium Medal in 2000, the IEEE PES Excellence in Power Distribution Engineering Award in 2002, the IEEE PES Substations Committee Distinguished Service Award in 2003, the IEEE PES Meritorious Service Award in 2015, the 2015 CIGRE Distinguished Member Award and the 2015 CIGRE USNC Attwood Associate Award.

John has co-authored five books: Automating a Distribution Cooperative from A to Z: A Primer on Employing Technology (National Rural Electric Cooperative Association – 1999); Electric Power Substations Engineering (Third Edition) (CRC Press – 2012); Power System SCADA and Smart Grids (CRC Press – 2015); Big Data Application in Power Systems (Elsevier - 2017); and Smart Grids: Advanced Technologies and Solutions (Second Edition) (CRC Press – 2018).



INVITATION TO A CONSULTANTS NETWORK WORKSHOP

The IEEE FWCS Consultants Network Affinity group is pleased to support and invite all Consultants and anyone interested in Consulting to the following event being presented by the Melbourne & Canaveral IEEE Sections in conjunction with IEEE-USA Alliance of IEEE Consultants Networks Coordinating Committee (AICNCC) to a Full-Day Consulting Workshop

VTOOLS LINK: <https://events.vtools.ieee.org/m/175457>

DATE: OCTOBER 27, 2018

TIME: 8:30 am - 5:30 pm

LOCATION: FLORIDA SOLAR ENERGY CENTER
1679 Clearlake Road, Cocoa, FL 32922

This Consultants Workshop event is designed for those who are considering consulting as a professional option, either now or in the future and practicing consultants who want to improve their networking and marketing skills.

The slate of expert speakers will include nationally recognized leaders from the IEEE who are successful consultants themselves as well as local professionals especially relevant to Brevard County. Among the speaker will be Dr. Gary Blank, 2014 President of IEEE-USA.

Topics will include; HOW TO DETERMINE IF CONSULTING IS RIGHT FOR YOU, SETTING UP YOUR CONSULTING BUSINESS, IMPROVING YOUR NETWORKING SKILLS, ACHIEVING PROFESSIONAL SUCCESS THROUGH PERSONAL GROWTH, and special information about consulting in BREVARD COUNTY.

We've worked to keep the registration fees low, after all the IEEE is non-profit. Included with your registration we'll be serving continental breakfast, Florida BBQ lunch buffet, and afternoon refreshments.

We welcome non-IEEE members and students to come participate.

IEEE Annual Election 2018

Leadership is not about the next election, it's about the next generation. Voting is super important. In each and every election, it is your right, it is your freedom and it is your interest, that is on the ballot.

Let's come together and be the architects of a better IEEE.

Kindly cast your vote now by clicking on the following link.

<https://www.ieee.org/about/corporate/election/index.html>

PACE	 IEEE	USF STUDENTS And YOUNG PROFESSIONALS
<p style="text-align: center;"><i>A New Technology is Going to Rock Your World—Are you Ready?</i></p>		

Blockchain: What It Is, How It Works, And What It Means For All Of Us

Did you know that your world is about to be completely changed? How you buy things online, how you pay for things in the real world, and everything from birth certificates to driver's licenses are about to be turned upside down. What's going to cause this change you ask? The answer is Blockchain.

Blockchain is a revolutionary new software technology that is already being used as a part of all of those cryptocurrencies that you've read so much about. However, what blockchain can do is much, much bigger than just cryptocurrencies. This IEEE PACE presentation is going to provide you with what you need to fully understand where Blockchain came from, what it means to you, and how it's going to change the future for all of us. You are not going to want to miss this meeting!

All of your questions will be answered. It's going to be popular and so I expect it to fill up fast. Make sure that you register to attend NOW and I'll see you there!

When: Wednesday, September 26th, 6pm - 7:30pm Where: TECO Plaza, [702 N. Franklin](#) S, Tampa, Florida
Register online at: <https://events.vtools.ieee.org/m/175570>

Join us for



IEEE's USF Student Branch & FWCS Young Professionals Groups are hosting a PICNIC on **September 29, 2018** at USF's very own **Riverfront Park**. This picnic will last from **1:00pm to 5:00pm** and offer an opportunity for students, professionals, faculty and recruiters to engage in conversation and activities alike. *You can expect great experiences like...*

- Networking while enjoying a fun day at the park
- Team-building activities (sports, and boards games)
- Free Food

Make sure to mark your calendars and RSVP at <http://time2meet.com/fwcs-meetings/>
September 29, 2018 1:00pm – 5:00pm

 IASA IEEE INDUSTRY APPLICATIONS SOCIETY	 IEEE	 IEEE PES Power & Energy Society™
<u>Generator Protection and NERC Maintenance & Testing Requirements</u>		

Date: Friday, October 19, 2018

Time: Registration: 8:30AM – 9:00AM Time: 9:00AM – 3:00PM

Speaker: Dr. Murty V. V. S. Yalla, President, Beckwith Electric Co. Ltd., IEEE Fellow

Location: FRCC 3000 Bayport Dr. #600, Tampa, FL 33607

CEH Credits: 5 Continuing Education Hours (CEH) will be awarded. 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. Level Intermediate.

Cost: \$100 Members, \$200 Non-Members, \$20 Students. Includes Light Breakfast & Lunch.

RSVP: Online at: <http://time2meet.com/fwcs-pes1/index.html>

Make checks payable to: IEEE FWCS & Send checks to: Jim Howard, IEEE FWCS Treasurer 3133 W. Paris Street, Tampa FL 33614-5964

Questions: Tom Blair at 813-228-1111, ext 48179 or tom_blair@ieee.org

Your IEEE PES West Coast Chapter Utility Users Group is meeting in October and we are honored to have Dr. Murty V.V.S. Yalla, President of Beckwith Electric Company as our guest speaker. Dr. Yalla will cover generator protection systems as described in IEEE C37.102, IEEE Guide for AC Generator Protection. Additionally, Dr. Yalla will cover the mandatory requirements of the North American Electric Reliability Corporation (NERC), specifically addressing the maintenance & testing requirements of:

NERC Standard PRC-005-6— Protection System Maintenance




NERC Standard PRC-024-2 — Generator Frequency and Voltage Protective Relay Settings

NERC Standard PRC-019-2 — Coordination of Generating Unit or Plant Capabilities, Voltage Regulating Controls, and Protection

Who Should attend this course? Power plant and substation protection engineers and protection generalists who desire a deeper background about generator protection and NERC required maintenance and testing.

SPEAKER BIO

Dr. Murty V.V.S. Yalla has been with Beckwith Electric since 1989 and presently holds the position of President & is an IEEE Fellow. He was a member (subject matter expert) of the North American Electric Reliability Corporation (NERC) System Protection and Control Subcommittee (SPCS). Dr. Yalla was also the chairman of the working group which developed IEEE Standard C37.102-2006 "Guide for AC Generator Protection." Dr. Yalla's is uniquely qualified to instruct this course on IEEE C37.102 and NERC maintenance & testing requirements and your local IEEE PES/IAS chapter is honored to have him as speaker.

 IASA IEEE INDUSTRY APPLICATIONS SOCIETY	 IEEE	 IEEE PES Power & Energy Society™
<p><u>Rules and Laws that Govern the Practice of Engineering in Florida</u></p> <p><u>Ethics and the Practice of Engineering in Florida</u></p>		

Date: Friday, November 9, 2018

Time: Registration and light breakfast at 8:30AM

Presentation: 9:30AM—11:30AM

Speaker: Mr. Art Nordlinger, PE, IEEE Representative to the Florida Board of Professional Engineers Presentations:

Location: FRCC Headquarters, 3000 Bayport Dr #600, Tampa, FL 33607 Parking: Use parking lot for Hyatt (North side only).

Cost: \$30 for Members, \$50 for Non-Members, \$20 for Students. Make checks payable to: IEEE FWCS Send checks to: Treasurer—IEEE PE/IA Chapter 3133 W. Paris Street Tampa, FL 33614-5964

CEH Credits: One Rules & Laws CEH will be awarded, One Ethics CEH will be awarded, which will meet the current requirements for PE Renewals.

RSVP: Online at: <http://time2meet.com/fwcs-pes4/index.html>

Questions: Art Nordlinger at a.nordlinger@ieee.org or (813) 630-6203

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. Cancellation must be submitted online 24 Hrs prior to the seminar at: <http://time2meet.com/fwcs-pesx/index.html> No shows will be invoiced for the total cost of the seminar.

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

SPEAKER: Art Nordlinger is the Manager, 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 Senior Member of IEEE and a registered PE in Florida.

Rules and Laws that Govern the Practice of Engineering in Florida

Ethics and the Practice of Engineering in Florida

Art Nordlinger, at the June 29th seminar, provided an excellent understanding of the Florida Board of Professional Engineers' Rules and Laws, and Ethics associate with the practice of engineering in Florida. Art stressed the importance for engineers to get their necessary hours prior to the February 2019 renewal. If audited, your license could be suspended and fines assessed until all hours are taken and proof of completion provided to the Board.

This course will be offered again on November 9th at the FRCC. This will be the last time the FWCS PES/IAS Chapter plans to offer this course prior to the deadline for PE Renewals. Please see page 9 for registration details.

Get the Most from your IEEE Membership

JOIN A SOCIETY

The Florida West Coast Section has 6 active technical societies:

- Computer / Aerospace & Electronic Systems (**COMP/AESS**) Joint Chapter
- Engineering in Medicine & Biology (**EMBS**) Chapter
- Microwave Theory & Techniques/Antennas & Propagation/Electron Devices (**MTT/AP/ED**) Joint Chapter
- Power & Energy / Industry Applications (**PES/IAS**) Joint Chapter
- Robotics & Automation (**RAS**) Chapter
- Signal Processing / Communications (**SP/COMM**) Joint Chapter

Three student society chapters are active at the University of South Florida:

- USF Computer Society Chapter
- USF Microwave Theory & Techniques Chapter
- USF Power & Energy/Industry Applications Chapter

If one of these technical societies interests you, get involved by contacting a chapter representative, listed on Page 2 of this Signal.

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September 2018 Calendar of Events (For more information see P. 1) *in this Signal...*

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
						1
2	3	4 IEEE FWCS Excom Meeting 5:30, TECO Plaza	5	6	7 Cyber Security Fundamentals & Case Studies— FRCC—see Pg 4	8
9	10	11	12	13	14	15
16	17	18	19	20	21	22
23	24	25	26 Blockchain PACE meeting See Page 7	27	28	29 IEEE’s USF & YP Divisions Picnic See page 7
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