

**Florida West Coast Section (FWCS).**  
 Serving 2,300 members in the following Counties:  
 Charlotte, Citrus, DeSoto, Hardee, Hernando, Hillsborough, Lee, Manatee, Pasco, Pinellas, Polk and Sarasota



*Advancing Technology  
 for Humanity*

**Florida West Coast Section**  
<http://www.ieee.org/fwcs>

# The SunCoast Signal

The Institute of Electrical and Electronics Engineers, Inc.

Vol. 67, No., 1, January 2021

## Inside the SunCoast Signal

Pages 1 - 2

◆ IEEE FWCS - PE Corner  
 Tracking Your Continuing Education

Page 3

◆ IEEE 1547.8 - Draft 8  
 --Friday, Jan. 22, 2021, 10:00 am - 2:00 pm

Page 4

◆ Updates and Training on NFPA 70E-2021  
 Electrical Safety in the Workplace  
 --Friday, Feb. 12, 2021, 8:00 am - 4:30 pm

Page 5

◆ Suncoast Signal - Advertising Rates  
 ◆ Electrical Engineering Design Services

Page 6

◆ IEEE FWCS Contact & Addressee Space  
 ◆ IEEE FWCS Calendar of Events

## PE Corner

### Art Nordlinger, PE, Senior Member Tracking Your Continuing Education

Many Professional Engineers are licensed in multiple states, each of which has its own continuing education requirements. Additionally, each state has its own rules regarding what qualifies as acceptable continuing education courses. A number of services are available to PEs to help keep track of the continuing education requirements for each state in which they are registered, and how those match up with courses taken to assist the engineer in assuring that they have the required hours for each state at renewal time. Here are two examples of available services for tracking continuing education, one of which has other features beyond tracking continuing education. I am not endorsing either.

### NCEES CPC Tracking

The National Council of Examiners for Engineering and Surveying (the folks that provide all of the engineering licensure exams) offer a free service to track your continuing education. More information may be found at <https://ncees.org/cpc/>, The service allows an engineer to:

Select the appropriate state licensing boards and enter renewal period information for each.

Add the course information and corresponding continuing education hours (CEH). Supporting documentation can be uploaded to your account and the course and CEHs will be applied to the appropriate states.

Track your progress by viewing a side-by-side comparison of the state's requirements and your completed CPC courses.

Transmit your CPC transcript electronically to a state licensing board.

*Continued on Page 2*

### UPCOMING MEETINGS

EXCOM

Tuesday, January 5th, 2021

Google Meet

Register with vTools

<https://events.vtools.ieee.org/m/251301>

**IEEE FLORIDA WEST COAST SECTION  
EXECUTIVE COMMITTEE (ExCom)**

**CHAIR:** Paul Belussi – [paul.belussi.us@ieee.org](mailto:paul.belussi.us@ieee.org) (813) 230-8823  
**VICE CHAIR:** Andrew Seely – [andrew.seely@ieee.org](mailto:andrew.seely@ieee.org) (813) 368-6002  
**SECRETARY:** Sean Denny, [venner20@ieee.org](mailto:venner20@ieee.org), (727) 678-0183  
**PAST CHAIR:** Claude Pitts – [claud.pitts@ieee.org](mailto:claud.pitts@ieee.org) (727) 418-5272  
**TREASURER:** Serge Beauzile, [tre.fwcs.ieee@gmail.com](mailto:tre.fwcs.ieee@gmail.com), (516) 567-4888  
**SIGNAL EDITOR:** Michael Mayor, [michael.mayor@ieee.org](mailto:michael.mayor@ieee.org), (484) 524-3264  
**AWARDS & BYLAWS:** Richard Beatie, PE, [r.beatie@ieee.org](mailto:r.beatie@ieee.org)  
**MEMBERSHIP:** Andrew Lilly, [andrew.lilly@ieee.org](mailto:andrew.lilly@ieee.org), (813) 853-4049  
**TEACHER IN-SERVICE:** Sean Denny, [Venner20@ieee.org](mailto:Venner20@ieee.org), (727) 678-0183  
**CS/AESS Computer/Aerospace & Electronic Systems,**  
Joint Chapter: Jim Anderson, [jim.anderson@ieee.org](mailto:jim.anderson@ieee.org), (813) 425-2467  
**EMBS Engineering in Medicine & Biology Chapter:**  
Sylvia Thomas, [sylvia@usf.edu](mailto:sylvia@usf.edu)  
**MTT/AP/ED Microwave Theory & Techniques/Antennas & Propagation/  
Electron Devices Joint Chapter:** Jing Wang, [jingw@usf.edu](mailto:jingw@usf.edu)  
**PES/IAS Power & Energy/Industry Applications Joint Chapter:**  
Steve Antman, [steveantman@ieee.org](mailto:steveantman@ieee.org), (813) 460-5434  
**RAS Robotics & Automation Chapter:** Sean Denny, [venner20@aol.com](mailto:venner20@aol.com), (727) 678-0183  
**SP/COMM Signal Processing / Communications Joint Chapter:**  
Paul Belussi, [paul.belussi.us@ieee.org](mailto:paul.belussi.us@ieee.org), (813) 230-8723  
**WIE WOMEN IN ENGINEERING Affinity Group:** Diana Aristizabal, [dianaaristizabal08@gmail.com](mailto:dianaaristizabal08@gmail.com)  
**LIFE MEMBER Affinity Group:** Richard Beatie, PE, [r.beatie@ieee.org](mailto:r.beatie@ieee.org)  
**YOUNG PROFESSIONALS:** TJ Ross, [a.j.ross@ieee.org](mailto:a.j.ross@ieee.org), (505) 620-7734  
**PACE:** Jim Anderson, [jim.anderson@ieee.org](mailto:jim.anderson@ieee.org), (813) 425-2467  
**CONSULTANTS NETWORK:** Hermann Amaya, (727) 543-1308  
[hamaya@tampabay.rr.com](mailto:hamaya@tampabay.rr.com)  
**SENIOR MEMBER COMMITTEE:** Hermann Amaya, (727) 543-1308  
[hamaya@tampabay.rr.com](mailto:hamaya@tampabay.rr.com)  
**STUDENT BRANCH MENTOR:** Jacob Chacko, [jacobchacko@eaton.com](mailto:jacobchacko@eaton.com)  
**USF STUDENT BRANCH ADVISORS:**  
Dr. Andrew Hoff, Student Branch Co-Advisor, [hoff@usf.edu](mailto:hoff@usf.edu), (813) 974-4958  
Dr. Chung Seop Jeong, Student Branch Co-Advisor, [jeong@usf.edu](mailto:jeong@usf.edu), (813) 974-6415  
Dr. Srinivas Katkooori, CS Chapter Advisor, [katkooori@mail.usf.edu](mailto:katkooori@mail.usf.edu)  
Dr. Jing Wang, MTT Chapter Advisor, [jingw@usf.edu](mailto:jingw@usf.edu)  
**STUDENT BRANCH / CHAPTERS:**  
USF Student Branch, Chair: Noah Hamilton, [ieeusfchair@gmail.com](mailto:ieeusfchair@gmail.com)  
USF Computer Society Chapter: Vishalini Laguduva Ramnath, [vishalini@mail.usf.edu](mailto:vishalini@mail.usf.edu)  
USF Microwave Theory & Techniques Chapter:  
Enrique Gonzalez, [enriquegonza@mail.usf.edu](mailto:enriquegonza@mail.usf.edu)  
USF Power & Energy / Industry Applications Chapter:  
Joe Ghisu, [jghisu@mail.usf.edu](mailto:jghisu@mail.usf.edu)  
**CONFERENCES:** Dr. Jim Anderson, [jim.anderson@ieee.org](mailto:jim.anderson@ieee.org), (813) 425-2467  
**WEB MASTER:** TJ Ross, [a.j.ross@ieee.org](mailto:a.j.ross@ieee.org), (505) 620-7734  
**WEB PAGE:** <https://r3.ieee.org/fwc/>  
**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 Section. Annual subscription is included in the IEEE membership dues.  
The opinions expressed, as well as the technical accuracy of authors, advertisers or speakers published in this newsletter are those of the individual authors, advertisers, and speakers. Therefore, no endorsement by the IEEE, its officers, or its members is made or implied.  
All material for THE SUNCOAST SIGNAL is due in electronic form by 1st Friday after the 1st Tuesday of the month preceding the issue month.  
Address all correspondence to: Michael Mayor, 10006 Cross Creek Blvd., PMB 140, Tampa, FL 33647, [michael.mayor@ieee.org](mailto:michael.mayor@ieee.org), (484) 524-3264

**The SunCoast Signal, Copyright © 2021****Renew Central**

The Florida Board of Professional Engineers recently announced a partnership with Renew Central. Though Renew Central started providing their services in Florida, they have stated that they are expanding to other states. Different than the NCEES product, Renew Central also allows continuing education providers to list their courses, allowing engineers to use that as a source of information on available courses that satisfy a State's CE requirements. It also allows engineers to rate those courses. Renew Central offers several levels of service, the most basic of which is free, with more comprehensive services provided for a fee. There is no obligation for Florida PEs or continuing education providers to use Renew Central's services. Additional information may be found at <https://renewcentral.com/>.

Their services include:

- Self-Reporting & Transcripts
- Requirements Tracker
- Course Directory
- Premier Personal Renewal Advisor

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 is only 1 month away. Better finish earning those CEHs now!



**IEEE 1547.8, Draft 8;  
“Recommended Practice for Establishing Methods and Procedures that Provide  
Supplemental Support for Implementation Strategies for Expanded Use of IEEE  
Standard 1547”**

- Date:** Friday, January 22, 2021  
**Time:** 10:00 AM - 2:00 PM  
**Cost:** \$100 members, \$150 Non-Members, \$10 Students  
**Speakers:** Mr. Wayne Hartman, IEEE Senior Member  
**Presentations:** IEEE 1547.8, Draft 8, “Recommended Practice for Establishing Methods and Procedures that Provide Supplemental Support for Implementation Strategies for Expanded Use of IEEE Standard 1547.”  
**CEHs:** Four (4) CEH will be awarded. Be sure to enter your name and PE number on the sign-up website as it appears on your license. IEEE Florida Provider Number is 0003849.  
**Location:** This seminar will be presented virtually (online live) and the link sent the day prior.  
**Registration:** <https://events.vtools.ieee.org/m/242289>  
**Questions:** Robert DeMelo, (813) 963-0994, [Robert.demelo@ieee.org](mailto:Robert.demelo@ieee.org)  
Steve Antman, (813) 460-5434, [steveantman@ieee.org](mailto:steveantman@ieee.org)

**Abstract:** This technical session explores IEEE 1547.8, Draft 8, “Recommended Practice for Establishing Methods and Procedures that Provide Supplemental Support for Implementation Strategies for Expanded Use of IEEE Standard 1547.” This recommended practice applies to the requirements set forth in IEEE Std. 1547 and provides recommended methods that may expand the usefulness and uniqueness of IEEE Std 1547 through the identification of innovative designs, processes, and operational procedures. It considers the application of DER based on an overall system-wide, system integration basis. IEEE 1547 was established based on its requirements being satisfied at the point of common coupling (PCC), but 1547.8-D8 additionally addresses DER interconnection considerations beyond the PCC. We’ll address:

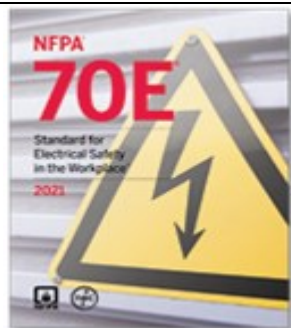
- DER interconnection system-level potential adverse effects
  - Opportunities for EPS improvement, considering DER technology capabilities
  - Operation of the Area EPS (distribution system) and operation of the Local Isolated EPS (microgrid)
  - Effects on power quality, including voltage and frequency concerns
  - DER interconnection response to abnormal Area EPS conditions of voltage, frequency, faults
  - Advanced capabilities of DER functions for supporting Area EPS operations
  - Potential for DER’s to increase reliability and efficiency of electricity delivery and grid operations
- A decision was made in 2014 to roll select information from IEEE 1547.8-D8 into the presently being revised 1547.2, “IEEE Application Guide for IEEE Std 1547, IEEE Standard for Interconnecting Distributed Resources with Electric Power Systems.” The selected rolling of key information from IEEE 1547.8-D8 into IEEE 1547.2 will leave out details. This exploration will review key sections in detail.

**Biography:** Wayne Hartmann is a Senior Member of IEEE, serving as a Main Committee Member of the Power System Relaying and Control Committee (PSRC) for over 30 years. His involvement includes being Chair Emeritus PSRCC’s Rotating Machinery Subcommittee (’07-’10), contributing to numerous Standards, Guides, Reports, Tutorials and Transactions and delivering Tutorials IEEE Conferences. He has authored and delivered dozens of conference papers and contributed to McGraw-Hill’s “Standard Handbook of Power Plant Engineering.” Wayne has trained over 25,000 engineers and technicians in his 30-year career span.



**Arc Flash - Updates and Training on NFPA 70E-2021  
Electrical Safety in the Workplace**

- Date:** Friday, February 12, 2021
- Time:** Google Meeting Seminar: 8:00AM – 4:30PM
- Speaker:** John Leedy, P.E., President, Engineered Electric Services, LLC (EES)
- Location:** Over-the-web. Google Meet
- Cost:** \$250 Members, \$300 Non-Members (Non-Members interested will receive a membership in IEEE) , \$100 Students. Includes seminar text: “NFPA 70E – 2021, Standard for Electrical Safety in the Workplace” (a \$50 value)
- CEH Credits:** Eight (8) professional development hours will be awarded. Be sure to enter your name and PE number on the signup website as it appears on your license. Florida exempt provider #00015.
- RSVP:** Online at: <https://events.vtools.ieee.org/m/247106>
- Questions:** Steve Antman at (813) 460-5434, or [steveantman@ieee.org](mailto:steveantman@ieee.org)



**A \$79 Value**

**Your local IEEE PES/IAS Chapter is offering this 8-hour training on Electrical Safety in the Workplace by John Leedy, president of Engineered Electric Services.**

This training session will be devoted to the subject of Electrical Safety in the workplace. Topics such as “how does electrical safety and the NFPA-70E apply to the workplace” and “what is required to be compliant with the standards” will be covered. A copy of the standard, NFPA-70E-2021 Standard for Electrical Safety in the Workplace is included in the training costs.

John Leedy graduated from University of Florida in 1982 with a Bachelor of Science in Electrical Engineering with an emphasis in Power Delivery. John worked for Dillard Smith Construction as a protective relay technician. He joined General Electric as a Field Engineer, specializing in Power Substations and DC Electronic Drive Systems in Paper Mills as well as Project Management of Paper Machine Drive System retrofits and substation construction. John left GE to join the family business, Leedy Electric Corp, in 1987. He earned his Professional Registered Electrical Engineering certification for the State of Florida, Georgia and Texas and his Masters in Engineering Management from the University of South Florida in 2002

Along with several other career related certifications earned since being with Engineered Electric Services, (formerly Leedy Electric Corp), he earned his Certified Power Quality Professional certification and has been working with NFPA 70E regulation since 2002, performing site Arc Flash Hazard Analysis and training management and employees on the standard. EES is located in Mulberry Florida, and has been in business since 1975, specializing in Engineering and Electrical Service for the commercial, manufacturing and industrial industries.

## Suncoast Signal Advertising Rates

| Size                  | 1 Month |            | 6 Months |            | 12 Months |            |
|-----------------------|---------|------------|----------|------------|-----------|------------|
|                       | 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    | \$38       | \$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    |



**ELECTRICAL ENGINEERING SERVICE**  
**DESIGN/BUILD**  
**INDUSTRIAL & COMMERCIAL**  
**MAINTENANCE & CONSTRUCTION**  
**INSTRUMENTATION & CONTROLS**  
**ARC FLASH ASSESSMENTS & TRAINING**  
**INFRARED TESTING**  
**ELECTRICAL TESTING SERVICES**

**863-425-2698**

[www.eesllcfl.com](http://www.eesllcfl.com)



Formerly Leedy Electric East, LLC



IEEE FWCS  
P. O. Box 2610



*Florida West Coast Section Tampa*

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

**DATE SENSITIVE MATERIAL DO NOT DELAY**

Change of address? IEEE Web Contact Update: <http://www.ieee.org/membership/coa.html>  
Or send address changes including your name, IEEE Member number and all pertinent information to:  
IEEE, 445 Hoes Lane, P. O. Box 1331, Piscataway, NJ 08855-1331 or call (800) 678-4333  
Or Fax your address changes to (732) 562-5445

| January 2021 Calendar of Events <i>(For more information see Page 1 in this Signal)</i> |     |                       |     |     |                       |     |
|---|-----|-----------------------|-----|-----|-----------------------|-----|
| Sun   | Mon | Tue                   | Wed | Thu | Fri                   | Sat |
|   |     |                       |     |     | 1                     | 2   |
|   |     |                       |     |     |                       |     |
| 3   | 4   | 5                     | 6   | 7   | 8                     | 9   |
|   |     | *EXCOM<br>Google Meet |     |     | *Signal Inputs<br>Due |     |
| 10  | 11  | 12                    | 13  | 14  | 15                    | 16  |
|   |     |                       |     |     |                       |     |
| 17  | 18  | 19                    | 20  | 21  | 22                    | 23  |
|   |     |                       |     |     | *IEEE 1547.8          |     |
| 24 / 31   | 25  | 26                    | 27  | 28  | 29                    | 30  |
|   |     |                       |     |     |                       |     |