



ORLANDO PES/PEL/IAS JOINT CHAPTER

MONTHLY NEWSLETTER

March 2022



Upcoming Events

Orlando IEEE PES Volunteer Event - Central Florida Miracle League – March 19th

The Orlando PES chapter is excited to kick off the year with a volunteer community outreach event. The chapter's Executive committee has set up a group volunteer event with the Central Florida Miracle League, a special needs baseball league in Orlando. We are scheduled to help out with a game on Saturday, March 19th at Trotters Park in Orlando. The approximate timeframe is 9:00 AM – Noon. We are not required to bring anything, but everyone should bring water to stay hydrated! This is a great way to “give-back” to our community. Please RSVP as soon as possible so we can give the league director an approximate number of volunteers. If you plan to bring additional people, please include that number as well. Hope to see you all there!

Mission Statement – *“To help individuals with disabilities build self-worth, overcome boundaries, and achieve their dreams by participating in America’s past-time: Baseball.”*

<https://cflmiracleleague.com/>

RSVPs and/or questions should be directed to kyle.wydner@tepa.com

IEEE PES UCF Student Chapter and Orlando Professional Chapter Topgolf Outing – March 25th

The Orlando PES chapter is hosting another joint Topgolf event with the UCF PES student chapter. This event will help form connections between rising students and industry professionals. The chapter values such events as they work towards bridging the gap between the academic and professional worlds.

RSVPs and/or questions should be directed to imriveracolon@burnsmcd.com.



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TOUR OF FPL 400 MW MANATEE ENERGY STORAGE CENTER – April 22nd

The IEEE Florida West Coast Section PES/IAS, in collaboration with Florida Power & Light (FPL), is bringing to the IEEE community this awesome tour of the world's largest solar-powered battery storage facility – FPL's Manatee Energy Storage Center in Parrish Florida. The facility was commissioned and made commercial in 2021 and is large enough to power 329,000 homes for more than 2 hours. The batteries are charged via FPL's Manatee Solar Energy Center, adjacent to the energy storage center. The size of the facility equates to 30 professional size football fields and the power output equals 100 million iPhone batteries!

This tour event will consist of 1 to 1.5 hours of classroom instruction going over the site by engineers intimate with the project, covering various engineering and construction topics related to the site. The second part of the event will be a walkdown of the energy storage facility where FPL engineers will be going through the yard, opening an isolated container to go over the battery modules, answer questions, etc. This should be a really great event and the first in-person tour for the IEEE FWCS PES/IAS since the start of the pandemic in early 2020. Mark your calendars and register for this exciting event.

Due to the limited attendance but large interest, we have broken the tour group into two (2) sessions in order to accommodate a total of 30 attendees. You do not need to register for both sessions. The morning/AM session is from 8:30am to 11:30ish (no lunch will be provided) and is limited to a total of 15 attendees. The second afternoon/PM session is from 1:30pm - 4pm and is also limited to a total of 15 attendees.

Please be mindful of required personal protective equipment (PPE). The PPE requirements for the site is long pants, boots, cotton long-sleeve shirt, and hardhat (hardhats will be provided by FPL). Please also be cognizant of the start time when you register as we will be starting promptly on time. If you are not a morning person or are driving a distance, please consider registering for the afternoon/PM session.

<https://events.vtools.ieee.org/m/300997> - AM Session

<https://events.vtools.ieee.org/m/301429> - PM Session



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Orlando IEEE PES/IAS/PEL Spring 2022 Technical Conference:

The SPRING TECH CONFERENCE is an annual four-day event hosted by the joint Orlando chapter of IEEE PES/IAS/PEL. The conference is held one day each week over four consecutive weeks. Each day offers amazing speakers covering different themes and presentations. It is typical for CUEs to be offered for each night of the conference for those that request them.

This year the conference will be ONLINE using Webex. Hopefully by Spring 2023 we can return to a hybrid model that includes in person participation and great food! A Webex link will be sent to registered attendees the day before the meeting. This year's spring technical conference will be held April 5th, 12th, 19th, and 26th. Each night will be hosted by two speakers.

Detailed abstracts for each presentation can be found following the respectful night's registration link provided below.

Day 1 (April 5th): AI and ML

Speaker 1: Hossein Panamtash - Copula-Based Bayesian Method for Coherent Probabilistic Solar Power Forecasting

Speaker 2: Dr. Inalvis Alvarez Fernandez - Data-driven Analysis for Integrated Transmission and Distribution Systems with High Penetration of Distributed Energy Resources

Night 1 Registration: <https://events.vtools.ieee.org/m/306310>

Day 2 (April 12th): Advanced Control and Protection

Speaker 1: Kwasi Opoku - Application of Superimposed Sequence Quantities for Fault Detection

Speaker 2: Subash Pokharel - Magnetic Amplifier Technology for Power Flow Control: Modeling and Applications

Night 2 Registration: <https://events.vtools.ieee.org/m/306312>



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Day 3 (April 19th): Operation and Control of High Penetration of PV

Speaker 1: Shahrzad Mahdavi - Voltage Control in Distribution Systems with High PV Penetration

Speaker 2: Dr. Soumyadeep Nag - Non-linear Control of Grid Forming and Grid Following Inverter

Night 3 Registration: <https://events.vtools.ieee.org/m/306311>

Day 4 (April 26th): Energy storage

Speaker 1: Hamed Haggi - Optimal Hydrogen Systems Scheduling for Improved Utility Operations: Towards Deep Energy Decarbonization

Speaker 2: Ren Hu - Data-driven Optimization of Power System Operation under Uncertainty

Night 4 Registration: <https://events.vtools.ieee.org/m/306314>



Miscellaneous

Find the Chapter online:

Orlando PES Chapter: [Website](#)

IEEE Events system: [Chapter & Section Events](#)

LinkedIn at: [Chapter LinkedIn Page](#)

** As always, if you would like to be removed from this email list, please reply back and we will remove you.*