



# IEEE FOOTHILL

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## Monthly Newsletter

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### IEEE Foothill ExCom/Opcom January Monthly Hybrid Meeting

*Prepared by: Max Cherubin | Proofread by: Gerald Herder*

The IEEE Foothill Section had their January ExCom/OpCom Monthly Hybrid Meeting last January 09, 2024, at around 7:15 pm. It was held at DeVry University in Ontario and Bluejeans. The chair read the minutes on behalf of Gerald Herder, our secretary, who's out of the country and also reminded the section about the section election. We were also glad that Daniel Donahoe joined us and shared to us the IEEE Milestone.

### Membership Development

Our membership has 1008. We increased four over last month but the count of new members between Dec. 01 and Jan. 01 is 11, 2 member grade and 9 students/graduates. No senior elevation.

### Social Media and Websites

Osman Ceylan reported that we didn't have as many visitors on our social media pages compared to last month. We had an additional 2 members on our LinkedIn. He also reminded the section to always be active in sharing their activities or events because in that way we can promote our section and we can encourage volunteers to be part of our section.

### Technical Committees

Scott Wedge wasn't able to attend the meeting and Osman Ceylan the chapter vice-chair just shared about the upcoming IMS (International Microwave Symposium) on June 16-21, 2024 which will be in Washington D.C.

Dr. Tamer Omar was present but didn't have much to report about the Communication Society and Computer Society. He is just preparing the section for the coming chapter election for both chapters. For this year, he plans to have more joint events for the chapters.

Dr. Koji Yamashita representing the PES had a report about the part of their webinar last October which was done last Dec. 13. There were a total of 32 online participants and 15 on-campus attendees joined the webinar. A separate report is on the next pages.



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## Affinity Group

Pankaj Bhowmik, our YP chair wasn't able to attend due to personal reasons, however, he was able to inform the chair that he attended the Rising Stars 2024 conference. He was glad to learn more about exciting leads about YP and he was able to meet Alberto Tam Yong. He will have a report about his experience at our next meeting.

Consultants Network doesn't have a meeting for the month of January and the next meeting will be on February.

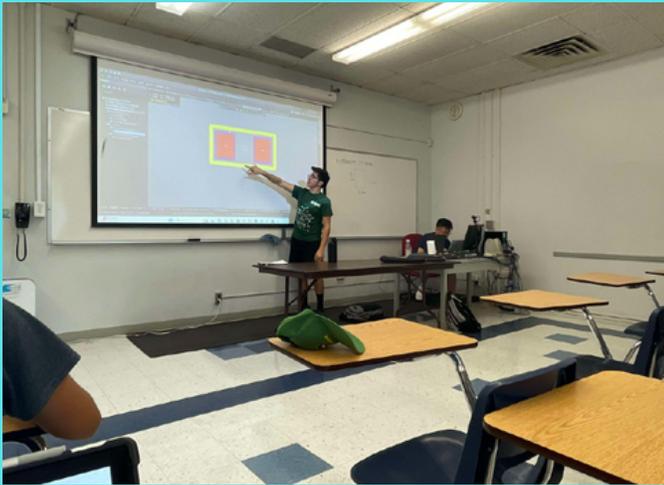
## Student Chapter Updates

### CPP (Cal-Poly Pomona): Semester Activity Report - Part 3

*Reported by: Sameer Sharma*

#### October 20, 2023: Printed Circuit Board Design Workshop

This workshop was a continuation of learning the basics of printed circuit board design using Altium software.



#### October 24, 2023: Pumpkin Carving Contest with AIChE CPP

With the Cal Poly Pomona chapter of the American Institute of Chemical Engineers (AIChE CPP), we hosted a collaborative social to celebrate Halloween. The social mainly consisted of a pumpkin carving contest with prizes, music, and snacks.



#### October 26, 2023: MATLAB Seminar

An employee from MathWorks, the company that founded the heavily used in the engineering field programming software, MATLAB, spoke about and showed demos for MATLAB to about forty of our members. The newest MATLAB features were covered alongside ways to show how to simplify work, save time, and increase productivity. Food and MathWorks merchandise was provided for attendees.

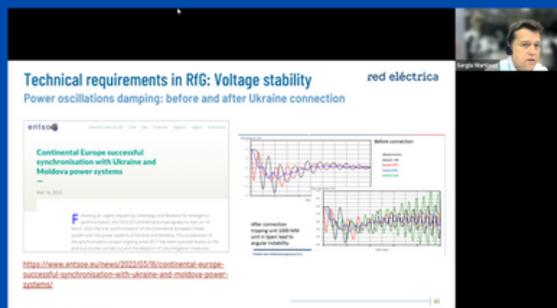
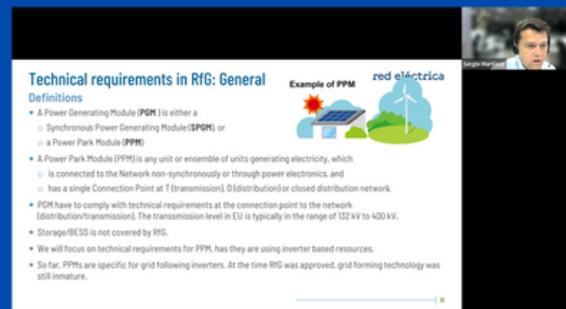


## PES: European Network Code with Focus on Inverter-based Resources Part 1 - Requirements for Grid following Converter with Compliance Process

Submitted by: Dr. Koji Yamashita

The IEEE PES Foothill Seminar titled 'European Network Code with a Focus on Inverter-based Resources' was held online on October 19, 2023. Mr. Sergio Martinez Villanueva, an Engineer for Power System Reliability Department at Red Electrica, Spain presented a comprehensive overview of the Major European Network Code Update 2016, with a specific emphasis on inverter-based resources.

Despite the relatively small audience (10+ participants), attendees expressed satisfaction with the informative presentation on the European Network Code Update. The seminar highlighted the latest bulk power grid stability study, specifically focusing on oscillatory features before and after the Ukraine connection, which significantly piqued the audience's interest. However, due to time constraints, the segment on the compliance process and the discussion session had to be skipped. Nevertheless, the speaker graciously agreed to share all slides, including the topics that were not uncovered during the webinar with the audience. The seminar was recorded and is available in MP4 format upon request. Those interested can contact Dr. Koji Yamashita at [kyamashi@ucr.edu](mailto:kyamashi@ucr.edu) for access to the recording.

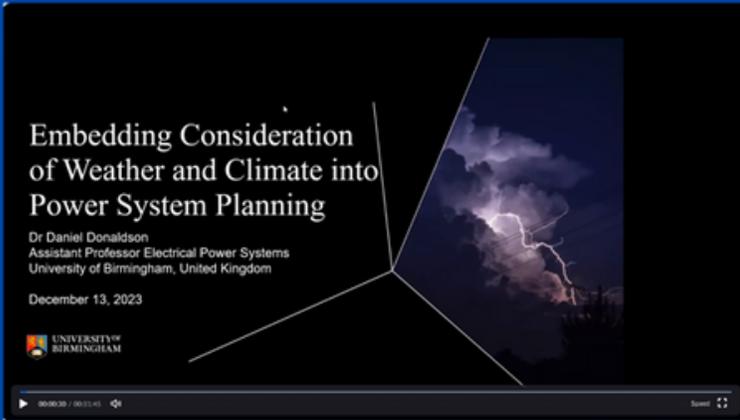


The IEEE Foothill Section seminars consistently feature relevant topics concerning grid-forming converter technologies. The upcoming webinar in 2024 will focus on a grid-forming converter demonstration project in South Korea. Additionally, a simulation-based feasibility study involving grid-forming converters is scheduled for presentation as well. A countermeasure for the high penetration of renewable energies will be presented in the IEEE PES Foothill Section seminars in 2024.

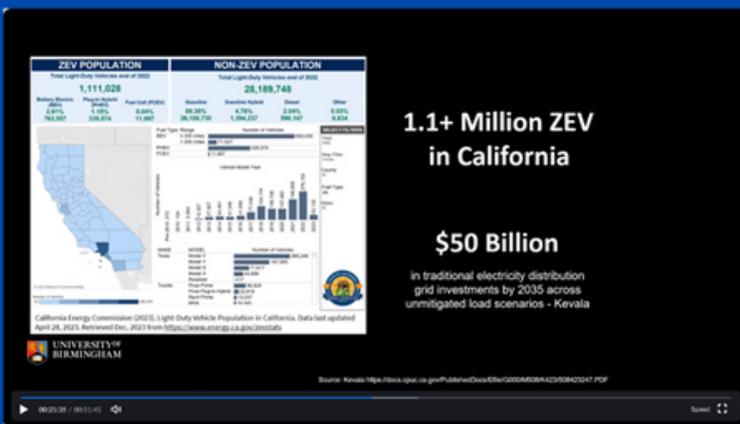
# PES: Embedding Consideration of Weather and Climate into Power System Planning

Submitted by: Dr. Koji Yamashita

The IEEE Foothill Section, titled 'Embedding Consideration of Weather and Climate into Power System Planning,' took place both online and in person at the University of California, Riverside on December 13, 2023. Prof. Daniel Donaldson, from the University of Birmingham in the UK, presented ongoing activities related to new grid planning challenges primarily caused by climate change.



A total of 32 online participants and 15 on-campus attendees joined the webinar, engaging with the speaker periodically. Participants became aware of grid planning challenges due to drastic climate change, including the emergence of new types of demand, such as electric vehicles. Prof. Donaldson highlighted an actual demand surge event caused by concentrated electric kettle usage during the sports break, surprising the audience.



Despite minor technical issues before the webinar, it concluded successfully, thanks to the effort of the UC Riverside IT staff and the moderator. Dr. Nanpeng Yu, who chairs the IEEE PES Foothill Section. The seminar was recorded and is available in MP4 format upon request. The seminars consistently cover relevant topics related to grid-forming converter technologies. Additionally, a simulation-based feasibility study with grid-forming converters is scheduled for February 14, 2024.

# IEEE Milestone



IEEE Milestone plaque mounted outside Pixar's entrance SF Bay. It was by Daniel Donahoe, one of IEEE's dedicated volunteers and a Utah Section Chair.



The IEEE Foothill Section would like to acknowledge and thank DeVry University for allowing us to do our hybrid monthly meetings.

## Upcoming Events:

### IEEE Foothill Section February Consultants Network Meeting

February 07, 2024

### IEEE Foothill Section February ExCom/OpCom Monthly Hybrid Meeting

February 13, 2024

## MATHCOUNTS<sup>®</sup> OF CALIFORNIA

East San Gabriel Valley Chapter

### Date and Location

Saturday, February 24, 2024  
Southern California Edison Energy Education Center  
6090 Irwindale Ave.  
Irwindale, CA 91702



## FISTS2024

IEEE Forum for Innovative Sustainable Transportation Systems

### FISTS 2024: 4th IEEE Forum for Innovative Sustainable Transportation Systems

Riverside, California, USA | February 26th - 28th, 2024

## IEEE SusTech2024



TECHNOLOGIES THAT IMPROVE AIR, WATER, ENERGY, FOOD AND HUMAN LIFE

Welcome to the 11th IEEE Conference on Technologies for Sustainability (SusTech 2024)

Portland, Oregon, April 14-17, 2024

## Social Media:



[Foothill Facebook Page](#)



[Foothill LinkedIn Page](#)

## We need Volunteers!

The IEEE Foothill Section welcomes volunteers and if you are interested in being part of our growing community, don't hesitate to email us at [sec.foothill@ieee.org](mailto:sec.foothill@ieee.org).

