





IEEE Foothill

FEBRUARY MONTHLY NEWSLETTER

WHAT'S INSIDE:

- 
IEEE Foothill ExCom/OpCom Monthly Hybrid Meeting
 pages 1-2
- 
Student Branch Updates: CPP Fall Activity - Part 3 & CSUSB
 pages 2-3
- 
PES: Combined Zonal and Local Control Using Grid-Forming Inverters in a Complex Medium and Low Voltage Island Grid
 page 4
- 
Upcoming Events
 page 5

IEEE Foothill ExCom/OpCom Monthly Hybrid Monthly Meeting

Prepared by: [Max Cherubin](#) | Proofread by: [Prof. Gerald Herder](#)

The IEEE Foothill Section held its February Executive/Operating Committee Monthly Hybrid Meeting at DeVry University. At exactly 7:12 pm the meeting started. The secretary provided an overview of the section election, noting that the results mirrored those of the previous year.

During his address, the chairman highlighted upcoming IEEE events like SusTech 2024, FISTS (UCR), and Mathcounts. He also attended the R6 Section Chair Meeting last January and shared insights on it and also the IEEE Cruise 2024.

Membership Development

Kim Mosley was unavailable to report at present and may not be able to do so until April due to her work commitments. The secretary subsequently indicated that there was an increase of 14 new members.

Social Media and Website

Osman Ceylan missed the meeting as he was in India meeting with a work customer. Our social media presence is strong on both LinkedIn and Facebook. Let's aim for consistent posting at all events and activities. We've urged all chapters to share their events on our social platforms.

Technical Committees

During the IEEE Radio and Wireless Symposium from January 21-24 in San Antonio, Texas, Osman Ceylan, the MTT/APS chapter vice-chair, attended the event. However, he could not discuss it at the meeting. Dr. Scott Wedge was at the Design Conference in Silicon Valley from January 30 to Feb. 1. This conference focused on high-speed signaling, chip-to-chip communication on circuit boards, and related technologies. Approximately 5000 attendees participated this year, including major companies like Keysight, Siemens, and Cadence Design Systems.



This letter is brought to you by:

The International Solid-State Circuit Symposium (ISSCS) is scheduled for February 18 to 22 at the prestigious San Francisco Marriott Marquis. This conference, a highlight in the IEEE calendar, promises a glamorous experience for attendees. If you've yet to partake in this event, it's an opportunity not to be missed.

Nanotechnology, Dr. Jenny Yu was absent, so Addie Hasson stepped in to cover their Hyperloop Workshop update. The workshop series is in full swing, with upcoming sessions on Python, Circuit Analysis, Circuit Construction, Graphic Design Principles, CAD, and more. The calendar of events is available on the following pages for details.

ComSoc & CS, Dr. Tamer Omar from ComSoc & CS recently issued a Call for Nominations for Officer positions in his chapters. Regrettably, he received no responses, facing a challenge in recruiting volunteers, a prevalent issue in IEEE. To address this, he contemplates hosting a recruitment event featuring a meal and a guest speaker discussing IEEE. He also highlighted his involvement in joint events with other sections for both chapters.

PES, Koji Yamashita, presented his report on PES and its recent events. On January 16, the event held addressed "Modeling and Analysis of Renewable-Rich Power Grids: Navigating IBR Challenges," while on February 14, the discussion was on "Combined Zonal and Local Control using Grid-Forming Inverters in a Complex Medium and Low-Voltage Island Grid: A Study Case in a Realistic German Network." Further details about these events can be found on the following pages.

Affinity Group

YP, Pankaj Bhowmik shared insights from his Rising Stars 2024 experience. Regarding chapter activities, the chapter chair aims to organize and compile key takeaways from Rising Stars. Additionally, he intends to engage members proactively and expressed interest in collaborating with Dr. Omar on an event to inspire volunteer participation.

CN, Cash was absent during the meeting to discuss the last CN meeting. The consultants' gathering took place on Feb. 1st. The chair, Max Cherubin, noted interest from individuals looking to join the network. He highlighted the opportunity for students to attend, gaining insight into consulting and opening doors for future prospects. The upcoming meeting is scheduled for March 6, 2024.

Student Branch Updates:

CPP Fall Semester Activity Update (Part 3) by Sameer Sharma and CSUSB by Melissa Castro

October 27, 2023: Arduino Workshop - Part 1

Prof. Chi Chiu and our project team taught Arduino programming to our members. The basics of the Arduino Uno, how to interact with the software and hardware used for Arduino Uno, and opportunities for robotics projects were shown and explained.



October 31, 2023: Fifth General Meeting

Roughly twenty members joined us for another social to celebrate Halloween. We hosted a costume contest with prizes, food, and snacks to relax members at a stressful time where many midterms were occurring on a near date.

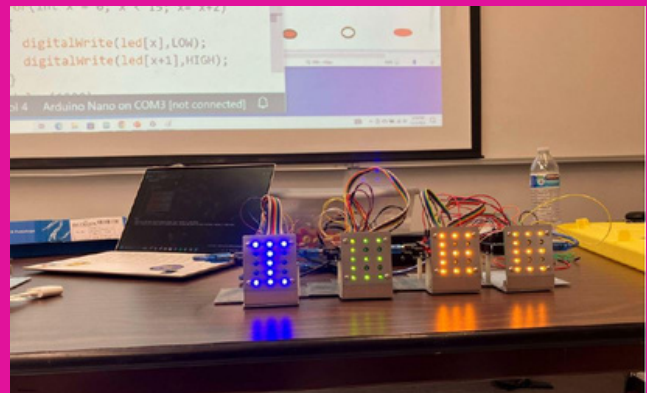
November 2, 2023: Resume Workshop



This workshop guided members on making their resumes and cover letters effective for applying to internships and jobs. It was led by a worker from Cal Poly Pomona's career center who has a lot of experience building appropriate building appropriate and strong resumes and cover letters.

November 3, 2023: Arduino Workshop

This workshop was a continuation of learning the basics of Arduino programming.



November 14, 2023: Sixth General Meeting



For our last general meeting of the Fall 2023 semester, about fifteen attendees heard us speak about the last few events we will be hosting for the rest of the semester as well as the finalized list for free lodging for the Consumers Electronics Show (CES) trip we are having in early January. We also gave our input and advice to our members by sharing tips and tricks for doing well on finals and the assignments that are due to our members by sharing tips and tricks for doing well on finals and last assignments that are due for the semester.

November 14, 2023: CSUSB - Soldering Workshop



In a multiple-session series, WICSE and the CSE club hosted a soldering workshop in which students were given a presentation about safety procedures regarding soldering. Following this, the students were given a live demonstration and walkthrough of an LED project. In the next workshop, students were each allowed to gain hands-on experience and build their own LED circuit by using the soldering equipment and their knowledge acquired in the previous workshop.

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

Planning

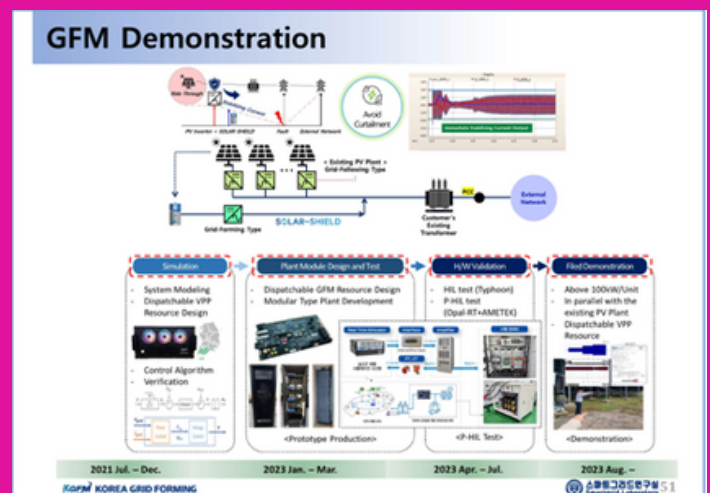
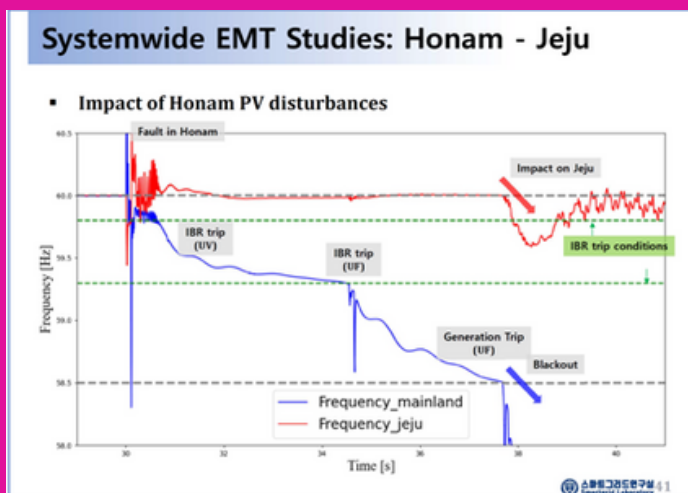
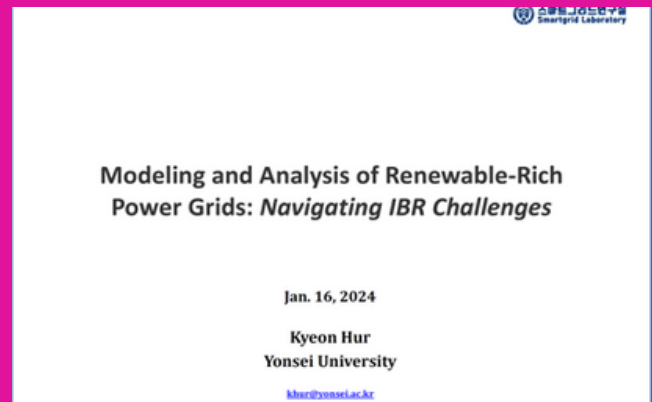
Reported by: Koji Yamashita

The IEEE PES Foothill Seminar, titled 'Embedding Consideration of Weather and Climate into Power System Planning,' took place online on Jan. 16, 2024; Prof. Kyeon Hur from Yonsei University in South Korea presented an ongoing demonstration project on Jeju Island forming converter technologies.

A lot of 49 online participants joined the webinar. Participants learned about technical challenges stemming from the increasing integration of inverter-based resources into a small grid. Prof. Hur highlighted the potential grid collapse with a less stiff voltage source. He also emphasized that grid-forming converters have great potential to cope with his technical challenge, citing EMT simulation results.

The seminar was recorded and is available in MP4 format upon request. Those interested can contact Dr. Koji Yamashita at kyamashita@ucr.edu for access to the recording. Following the webinar, we received five requests to watch the recorded session, indicating the growing interest among power engineers in the grid-forming converter technology.

The IEEE PES Foothill Section seminars consistently cover relevant topics related to grid-forming converter technologies. The upcoming webinar will showcase the distribution grid at stabilization analysis during islanding mode with grid-forming converters using a realistic German distribution network model on Feb. 14, 2024. Furthermore, the 100% renewable energy demonstration project in Japan will be introduced on April 4, 2024, at 2:30 pm. Stay tuned for further updates.





UPCOMING EVENTS:

IEEE Foothill March ExCom/OpCom Monthly Hybrid Meeting

March 12, 2024

IEEE Foothill Consultants Network Meeting

March 6, 2024

IEEE Region 6 OpCom Meeting

Embassy Suites, Washington, DC

March 6, 2024

CPP Hyperloop Workshop Schedule

Spring 2024, Fridays | www.cpphyperloop.tech

February 16 **Python Applications Workshop**
Lecture
2/16/2024 | 6:00pm - 8:00pm
Cal Poly Pomona, Building 9, Room 9-425
RSVP by: 2/16/2024
Host: Alex Ov

February 23 **Circuit Analysis Workshop**
Lecture
2/23/2024 | 6:00pm - 8:00pm
Cal Poly Pomona, Building 9, Room 9-425
RSVP by: 2/23/2024
Host: Maggie Hoang & Yash Karwal

March 01 **Circuit Construction Workshop**
Lab
3/1/2024 | 5:00pm - 8:00pm
Cal Poly Pomona, Building 9, Room 9-425
RSVP by: 2/28/2024 | Price: \$16
Host: Maggie Hoang & Yash Karwal

March 08 **Graphic Design Principles**
Lecture
3/8/2024 | 6:00pm - 8:00pm
Cal Poly Pomona, Building 9, Room 9-425
RSVP by: 3/8/2024
Host: Bethany Chang

March 15 **CAD Workshop I**
Lab
3/15/2024 | 5:00pm - 8:00pm
Cal Poly Pomona, Building 9, Room 9-425
RSVP by: 3/15/2024
Host: Addie Hasson & Yash Karwal

March 22 **CAD Workshop II**
Lab
3/22/2024 | 5:00pm - 8:00pm
Cal Poly Pomona, Building 9, Room 9-425
RSVP by: 3/22/2024
Host: Addie Hasson & Yash Karwal

March 29 **3D Printing Workshop**
Lab
3/29/2024 | 5:00pm - 8:00pm
Cal Poly Pomona, Building 9, Room 9-425
RSVP by: 3/27/2024
Host: Yash Karwal

April 05 **ESP-8266 IoT Workshop**
Lecture
4/5/2024 | 6:00pm - 8:00pm
Virtual, Zoom
RSVP by: 4/5/2024
Host: Yash Karwal

April 12 **PCB Design Workshop**
Lecture
4/12/2024 | 6:00pm - 8:00pm
Cal Poly Pomona, Building 9, Room 9-425
RSVP by: 4/12/2024
Host: Victoria Nguyen & Christopher Lai

April 19 **Soldering Workshop**
Lab
4/19/2024 | 5:00pm - 8:00pm
Cal Poly Pomona, Building 9, Room 9-425
RSVP by: 4/17/2024 | Price: \$16
Host: Maggie Hoang

April 26 **Arduino Workshop I**
Lab
4/26/2024 | 5:00pm - 8:00pm
Cal Poly Pomona, Building 9, Room 9-425
RSVP by: 4/24/2024
Host: Yash Karwal

May 03 **Arduino Workshop II**
Lab
5/3/2024 | 5:00pm - 8:00pm
Cal Poly Pomona, Building 9, Room 9-425
RSVP by: 5/1/2024
Host: Yash Karwal



IEEE★USA ALASKA CRUISE

★ 9-16 September 2024 ★

SEATTLE | SITKA | SKAGWAY
JUNEAU | VICTORIA, BC

Join us on a bucket-list, 7-night cruise to the breath-taking scenery of Alaska, aboard Royal Caribbean's Quantum of the Seas, featuring entertainment, exploration, networking, learning and so much more.

BOOK NOW for best rates and availability!

cruise.ieeeusa.org



SOCIAL MEDIA



[Facebook Page](#)



[LinkedIn Page](#)

