

JULY-AUG 2025

BI-MONTHLY NEWSLETTER

IEEE FOOTHILL

Prepared by: Max Cherubin | Proofread by: Prof. Gerald Herder

July ExCom/OpCom Monthly Hybrid Meeting

The IEEE Foothill Section ExCom/OpCom Monthly Hybrid Meeting was held on July 08, 2025. We were glad to have the presence of our



R-6 Chair Joseph Wei. Before the meeting started, Joseph shared insights into the opportunities and changes in the Region.



The chair then discussed the success of the TopGolf Event. A total of 17 attendees were present. Winners are Bassem Maurice, Scott Wedge, and Jessica. He also discussed the issue at DeVry University regarding student addresses and how students can receive email notifications from the section through IEEE notices. The section and student rebate have finally been received. The chair is grateful for all the volunteers (students and professionals) for all the time and effort they put into the section.



August ExCom/OpCom Monthly Hybrid Meeting

The IEEE Foothill Section August Monthly Hybrid Meeting was held on August 12, 2025. The meeting started at 07:07 PM. The chair reminded the section about the upcoming elections, while vTools got some new tools for nomination and voting. A representative from Region 6 Awards and Recognition emailed the chair, and they are looking for an award person in the ExCom. Art Sutton volunteered. SusTech 2026 is now underway, and there is no update yet on when and where it will be held. The chair proposed a Holiday Gathering in December—no approval from the members yet, since only a few attended the meeting.

HIGHLIGHTS
of this
NEWSLETTER

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July ExCom/OpCom Monthly Hybrid Meeting

Membership Development

In our last report, we had a total of 875, and we are now at 881, representing a slight increase from last month. We were not sure if we had a senior elevation for the month of May. The chair inquired about the welcome letter to be sent to the new members. But Kim had no time for it due to a family emergency.

Technical Committees

Ed/CASS. Richard Fung organized a talk focused on IP Technology. Their speaker was Alex Kuo, an engineer with 15 years of experience in IP Technology. They also tried to arrange a DL talk with Prof. Yu this month, but it was postponed due to a scheduling conflict. Richard will try to create an entrepreneurship presentation for the students. The Weekend Espresso on July 21st was a success, and the topic was an introduction to Intellectual Property. The next Weekend Espresso will be on August 23rd.

MTT/APS. Scott Wedge thanked R6 Chair Joseph Wei for attending the meeting. They had the IMS 2025 event in San Francisco last month. A lack of participation was the reason why IMS Transportation was cancelled. DAC (Design Automation) was one week after IMS. Scott presented a list of topics for both conferences that shared many commonalities. He wants to share his TopGolf prize with the two university groups from CSUSB and CPP. Wants to hear the CPP-ComSoc proposal about software-defined radios.

PES. Koji Yamashita reported. Webinars have focused on a similar topic about inverter-based oscillation. They had a total of 20 participants, most of whom were students at UCR. He invited an engineer from Red Electrica in Spain to talk about the April outage. Preliminary reports indicate overvoltage from Solar Systems tripped the synchronous generators. This month, he will invite four European engineers to present. All webinar recordings will be uploaded to the PES Foothill YouTube channel.

CS. Sean Hamilton reported they had three joint events for the month, all involving AI. They had meetings with other chapters to submit a proposal to the society for funding relating to increased participation. During the meeting, they discussed System Engineering Training, aiming to gather groups and bring them to PPI. He's also working on the website. They are exploring the use of different servers for the website. Gerald will reach out to Deron at BV about the website controls. Also working with the Hawaii section for joint events. Blockchain work continues. Joseph had input on the IEEE template, which he will pass on to the group.

August ExCom/OpCom Monthly Hybrid Meeting

Membership Development

Kim doesn't have much to report about membership. We have a total of 925. We had an increase of 44 members. We also had four Senior Elevations from June.

- *Boomchi Kumar*
- *Ramprakash Kalapala*
- *Arun Kumar Agunuru*
- *Sharat Priya*

Technical Committees

MTT. Scott Wedge reported. He asked the chair to give the student, William, the opportunity to elaborate on the collaboration with SDR. Their team just finished their demo and is now ready to present. They will use Aircraft Tracking SDR. They are still wrapping up the demonstration for RF. MTT had an event, but it was too late to put it on vTools. It is about the Role of Microwave Technologies and Quantum Computing. Dr. Abbas Omas presented it from the University of Magdeburg, Germany. The IEEE Radio & Wireless Week will be in January 21, 2026.

Ed/CASS. Bo thanked Frank for being the Foothill Section chair for the past years and contributed a lot. He mentioned that Richard Fung's Weekend Espresso event, scheduled for the 23rd, was changed due to the speaker's schedule. They will discuss different types of patents. A talk suitable for students seeking an internship. Richard shared something about himself and his work in the industry. He plans to share his work with the section.

PES. Koji Yamashita reported. They hosted a webinar on July 4th and invited four speakers from Europe, and the topic was Multi-Port Converters. They got over 20 participants. Found a more effective way to gain more attendees. To give registrants the link after registering for the event, and send the event link an hour prior to the event. He also presented their upcoming webinar a day after the ExCom/OpCom. He encouraged everyone to join. He invited a Brazilian speaker for the September webinar.

Affinity Group

WiE. Kim Mosley is still at work and communicating with a possible speaker for their October event, and will still be looking for a target date, but October is the ideal month for their event.

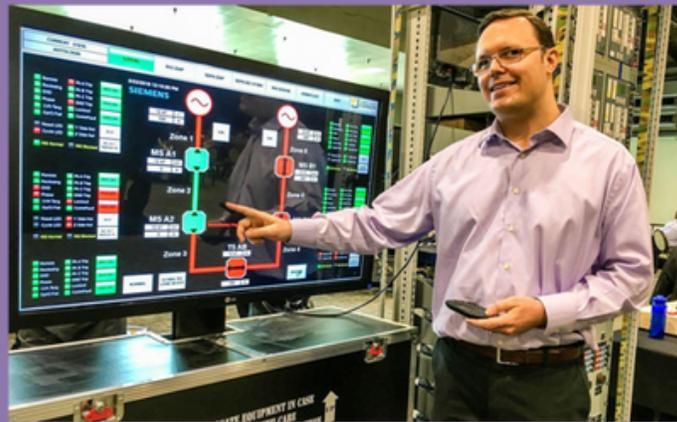
David Gonzalez attended the meeting, and one of his highlights was the AEMS 2025 (Anaheim Electronics and Manufacturing Show). The SoCal Council is one of the participants via IEEE BTC (*see page 5 for more details*). He also shared the SCE Tour they had last month, August 20, 2025 (*see next page*). He also mentioned that the IEEE Southern/Southwest Area Fall 2025 Joint Meeting will be on October 11, 2025.

SCE Grid Technology Development Lab-Pomona reported by: David Gonzalez

On a very hot day a group of 15 IEEE Members from Orange County and Inland Empire were invited to take a tour of Southern California Edison (SCE) Electric Vehicle Technical Center.



Southern California Edison's (SCE) Electric Vehicle Technical Center (EVTC) is a hub for electric vehicle (EV) research, development, and testing, particularly focusing on infrastructure and heavy-duty vehicles, such as the newly launched heavy-duty EV charging hub. The EVTC works in conjunction with programs like Charge Ready Transport to support the integration of electric vehicles into commercial, public, and home use by providing technical expertise and pilot programs.



Courtesy of SCE website
<https://energized.edison.com/stories/accelerating-vehicle-to-grid-research>

We toured the SCE "Garage of the Future" which was a past research and development initiative by Southern California Edison (SCE) to study the grid integration of electric and plug-in hybrid-electric vehicle (EV/PHEV) charging and discharging. It was very interesting.

We learned that SCE has been at the forefront of the research, development, and applications of emerging technologies for the state of California. They are involved in the early stages of Real-World applications in residential and commercial use of battery storage and the use of electric vehicles. They are also involved in the development of microgrids and mobile battery energy storage solutions, which are of relevance for "keeping the lights on" in areas impacted by disasters, like recent fires in Pacific Palisades.

Most of SCE's vehicle fleets of Ford F-150 trucks used in field activities are electric. They have also developed charging stations and the electrification of heavy-duty vehicles.

Southern California Edison (SCE) is a major proponent of heavy-duty electric vehicles (EVs), integrating them into its own fleet with vehicles like the Volvo VNR Electric truck and planning for widespread adoption by 2030 and 2045.

SCE has initiatives in Microgrid projects like Service Center of the Future Charging Stations across California, which aims to deploy thousands of electric vehicles (EV) charging stations at workplaces, public locations, and multi-family properties. They are also working on the SCE Smart City project in Porterville, California. They are pioneering the Charge Ready Transit Bus pilot, which provided charging and grid support for the city's electric buses, and the Plug-In Porterville Blueprint, a strategy for deploying EV charging infrastructure with a focus on microgrids for public transit and fleet vehicles.

...continue reading next page



The visit was quite educational, and despite the heat, it was an educational experience; the staff from SCE were very professional and polite. They were friendly and answered all our questions. There were so many other great things we learned that are too much to include in this article. I would recommend taking this tour; it is well worth it.

Tour Date: August 20, 2025

Location: 265 N East End Avenue, Pomona, California, United States, 91767

Photo courtesy of SCE website

<https://energized.edison.com/stories/accelerating-vehicle-to-grid-research>

Ed/CASS: Weekend Espresso - Understanding Types of Patents

Reported by: Richard Fung

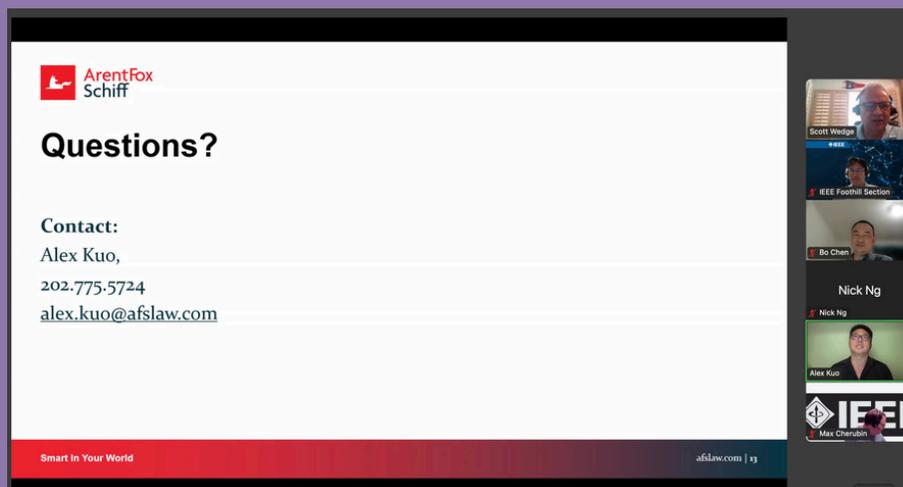
Thank you again for your support in promoting and participating in last week's Weekend Espresso event. It was a great success with a strong turnout – 14 participants in total (10 IEEE members and 4 guests).

Dr. Kuo gave an excellent overview of the different types of patents – utility, provisional, design, PCT, and foreign patents – and explained their purpose and when each is typically used. The Q&A session was especially engaging, covering topics such as:

- Using provisional applications to establish priority dates
- Special considerations for software-related patents
- Disclosure of patents and patent ownership when starting a new job
- The impact of AI on patent preparation

For your reference, I've attached Dr. Kuo's slides as well as a few photos from the event.

Looking forward to another successful Weekend Espresso session!



Students Update

CPP-ComSoc Club Fair reported by: William Burgess

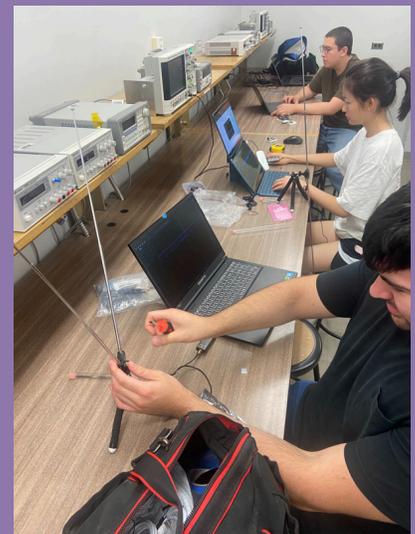
Photos by: William Burgess & Daniela E. Rodriguez



First off, we are officially registered and recognized by Bronco Leadership and have been granted access to several applications such as MyBAR, 25live and ASI funds(though limited). These Cal Poly Pomona applications give us more power to host events and participate in school activities such as the club fair.

Club Fair.

We attended both days and are happy to report 50+ new members on discord that are interested in the work we do and have expressed interest in the IEEE organization. Additionally, we have 26 sign-ups on MyBAR just in the first week alone. These numbers alone show there is a large interest in communications here at Cal Poly Pomona and I believe it will grow as we continue to push these workshops we have teased during the club fair. Although IEEE Power was not there, we tried to help promote them but have not heard from them.



IEEE USA Consultants FINDER

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SPOTLIGHT ON

Cash Sutton III, P.E., F.I.A.E.



photo and article is from IEEE-USA Insight

group; a licensed insurance agent in California; and an Adjunct Professor at Los Angeles Trade Tech College, where he teaches classes in Applied Science. Most of Sutton's experience has been associated with the design, construction, startup, and maintenance of electrical power systems. He has developed his management skills from meeting the demands of his job responsibilities and organizational affiliations.

You can read the full article here <https://insight.ieeeusa.org/articles/spotlight-on-cash-sutton-iii-p-e-f-i-a-e/>

IEEE-USA Insight Consultants Finder:

Each quarter, IEEE-USA InSight is profiling a consultant listed in the IEEE-USA Consultant Finder, so you can become familiar with some of the excellent technical experts our database has to offer. Our second Spotlight is on Cash Sutton III, P.E., F.I.A.E., president and CEO of Sutton Enterprises.

Cash Sutton is a licensed electrical engineer, in the state of California, who graduated from Drexel University in 1973. He is president and CEO of Sutton Enterprises, an electrical engineering consulting firm – as well as an affiliate marketing distribution

AEMS 2025

Anaheim Electronics & Manufacturing Show

Call to Action to All IEEE and Non-IEEE Students

Come Volunteer for the upcoming **IEEE @ AEMS**

September 24-25, 2025

Anaheim Convention Center

FREE Admission & FREE Parking

URL = <https://www.anaheimshow.com/>

In association with



Contact IEEE Site Coordinator

David E. González

DavidGonzalez@ieee.org

You can also attend the great panel discussions over the two days (when you're not volunteering)

Volunteer on either or both days!

Water and snacks will be provided to all volunteers.

Upcoming EVENTS

IEEE Foothill Consultants Network

Sept. 03, 2025

IEEE Foothill September ExCom/OpCom Hybrid Meeting

Sept. 09, 2025

Southern/Southwest Fall Joint Area Meeting

October 11, 2025

CLASTECH 2025

November 14, 2025



IEEE DAY 2025

IEEE DAY 2025

When: 7th October 2025

To get the latest updates of IEEE Day 2025, you can visit their website at <https://ieeeday.org/>