IEEE FOOTHILL
Monthly Newsletter

IEEE Foothill ExCom/OpCom March Meeting

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The IEEE Foothill March 2023 ExCom/OpCom Monthly Hybrid Meeting was held last March 14, 2023, and it started at precisely 07:10 pm with the chairman's remarks. He thanks the section for being updated in filing the event reports. The chair reminded the section always to keep updated with their chapter activities and expenses for transparency.

Student Chapter

Mia V. Diliberti-Brandenburg, the treasurer of CPP, reported that they had done two PCB Design workshops and Python Workshop. The upcoming workshop will be Soldering Workshop and Bread-boarding Workshop. They are also going on a tour to a substation of SDG&E. They also going to have a banquet in the last week of April, probably on the 28th or 29th.

Jennifer Nishimura, vice-chair of CBU. They had a game night and study night. For future planning, they are planning to have some workshop.

Technical Committees

MTT/APS Scott Wedge said that the officers for their chapter stay the same. IEEE Microwave Week (IMS) 2023 on June 11-16, 2023, in San Diego same date as the WIE International. The Design Automation Conference in July. DL Speaker from EDS is planned in June and two more planned for this year.

ComSoc Dr. Tamer Omar applied for ComSoc funding. He was thinking about a student-based event (remote cars) or end-of-year projects. He approached Charter Communications about possible help or sponsorship. Osman helped out with SDR (Software Defined Radio) project. Dr. Omar is busy with WTS 2023 coming up in April in Boston this year.

Nanotechnology Dr. Jenny Yu said two students have submitted for WTS student paper presentation and are asking for funding. The chair proposed funding for two students for $1700. They also join as ComSoc student members and help local ComSoc groups. SETC just received 30 applicants, and more updates about it are on next page.

WHAT'S INSIDE:

THIS NEWSLETTER IS BROUGHT TO YOU BY:

Panatron Inc

Computer Society, Ray Moreno had just resigned as chair, and Jeff Grayson has volunteered to help out as a new officer. Jerry asked Amal Altalhi if she would be willing to help out as a Computer Society volunteer, and she agreed to. Now she will be the acting chair for the chapter.

Students Design PCBs for the First Time from CPP Hyperloop Workshops
3x04: PCB Design Workshop
By: Christoper Lai

Introduction:
On September 23rd, 2022, 41 students gathered together in Building 9, Room 9-423 of Cal Poly Pomona to learn all about the utility application of PCB Design. Over two hours, Victoria Nguyen, and Christopher Lai led a workshop on PCB Design fundamentals, covering the core concepts of PCB Design, how to use EDA (Electronic Design Automation) tool, and the steps to design their own PCB for self-made project.

Of the 41 students that attended, 20 Students were IEEE members, and 3 students were high-schoolers. To accommodate all students, the workshop was held hybrid, with college students attending in person and high school students attending online. In addition, two EDAs were required to be used as well, since high schoolers did not have access to Altium Designer. Therefore, two instructors held parallel workshops on the CPP campus. Victoria Nguyen led the Altium Designer workshop, while Christopher Lai led the KICAD workshop. Workshop recordings, powerpoints, and other related curricula can be found on the website link here: https://www.cpphyperloop.tech/workshops/s3-fall-2022/3x04-pcb-design-workshop

On February 24th, 2022, CPP Hyperloop hosted the PCB Design workshop once more, with different topics and a very similar structure. 45 students gathered together in Building 9, Room 9-423, to learn about PCB Design. This semester, we saw a minor increase in participants. 12 students were IEEE members, and 3 students were high schoolers. The number of IEEE members decreased during this semester, but it was due to the amount of non-engineering students present during the workshop. We were able to discuss IEEE membership and introduce them to electronic engineering principles, which they had a great interest in.
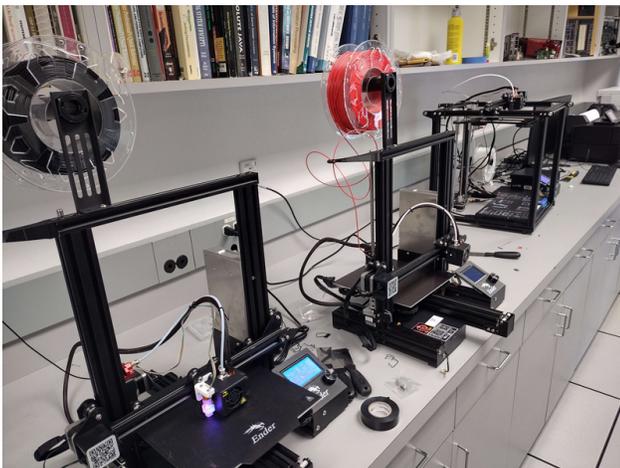
Student Chapter Updates:

CSUSB (Cal-State Univ. San Bernardino): *sent by Ivan Magana*

We have been printing out various parts for our Polyformer. This Polyformer will recycle plastic bottles into 3D filaments. As of now, we are about 25 percent done with getting all the pieces done, but we now have two more 3D printers which will hopefully help start speeding up the printing process.

Attached are some photos showing the various parts we have printed out so far.
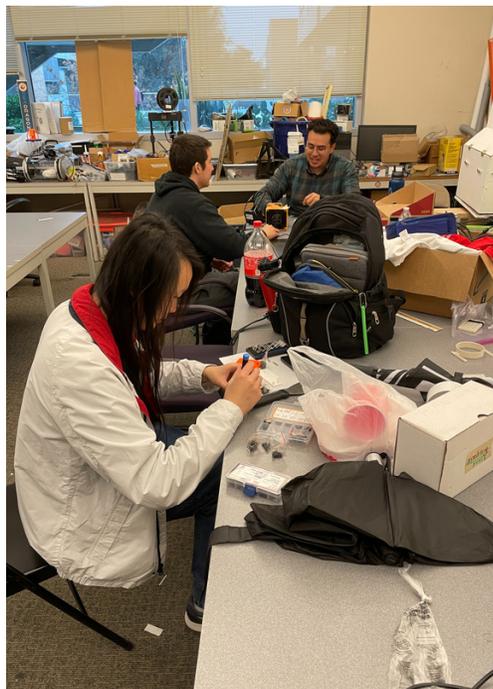
We also had our ESRI tour, and we had about 100 students attend. On this tour, they took us around their campus and showed us what they do at ESRI and what the work environment is like at ESRI. At the end of the tour, we had a networking section in which students could talk to employees of ESRI, ask the employees questions, and gain tips on what they should do if they would like to work at ESRI.

UCR (University of California-Riverside): *sent by Chloe Georgiou*

Their general meeting last Nov. 18th, 2022 where they had a guest speaker event Justin Bautista, a former UCR IEEE Chair and a NASA engineer.
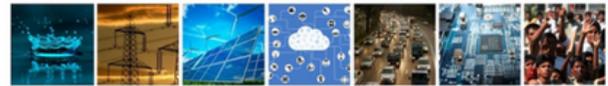
first photo from leftJustin Bautista presenting; electrical engineering students and officers of IEEE working on their senior design projects in their club room known as the Solarium; their IEEE ice skating social on 2/11 with some of their officers and members.

UPCOMING EVENTS:

- **IEEE Foothill May ExCom/OpCom Monthly Meeting**
  May 09, 2023

- **IEEE Foothill Consultants Network Meeting**
  May 03, 2023

- **IEEE SUSTECH 2023**
  April 19-23, 2023

- **IEEE Foothill Consultants Network: Consulting Workshop**
  May 13, 2023

IEEE SusTech 2023

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

Submission Site now OPEN; See Call for Papers

Welcome to the 10th IEEE Conference on Technologies for Sustainability (SusTech 2023)

Portland, Oregon, April 19-22, 2023

See flyer: https://ieee-sustech.org/
Register Here: https://events.vtools.ieee.org/m/350441

"Be part of our growing section. We welcome volunteers."

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