IEEE FOOTHILL

Monthly Newsletter
(https://ieee-foothill.org)

June ExCom/ OpCom Meeting
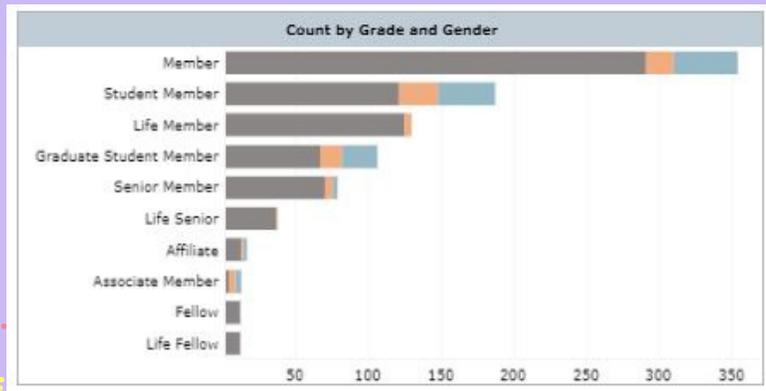By: Max Cherubin

The June ExCom/OpCom was held via BlueJeans Tuesday the 8th. The meeting started at 7 pm with the chairman's opening remarks. A face-to-face meeting may be possible sometime this October, location to be determined. The meeting from the previous month was reviewed followed by the treasurer's report. We appreciate the presence of our three visitors during the meeting, Thomas Choy, Tom Scottie, and Bob Dengler.

Sections and Committees
Kim Mosley reported that they have an increase last month of 22 new members. The total number of members right now 865 for the section, mostly students. We also had 3 senior members report that are showing up either because of the elevation or moving to section.

Count by Grade and Gender

What's Inside

Newsletter is brought to you by:

Panatron Inc

Osman Ceylan gave an update about the social media accounts. No major update in May, 340 views in total for the month of April, and most visitors are from the US. As per members, 29 members on LinkedIn and 47 members on Facebook. Reminding everyone if they do have an event to update Osman so that he will then update it on their social media accounts.

Technical Societies and Committees

The MTT/APS Society will have a Microwave Distinguished Lecture on June 30, 2021, with Dr. John Martens and they're hoping to get good attendance from the section.

The CAS/EDS had a chapter chairs meeting back on May 20, 2021, with a pretty good turn-out. It was done internationally and it took place during the International Symposium on Circuits and Systems which was held in Korea this year. A lot of resonance on some of the same issues we've talked about in our section which is getting the word out for speakers using various media platforms. So the technical societies are having comparable issues and complaints.

PES had a talk with Prof. Mikhail Bragin from the University of Connecticut about Combinatorial Optimization and its Applications in Power Systems. About 20 attendees showed up. Dr. Bragin first presented the challenges of solving the combinatorial problems. Then he presented a few state-of-the-art algorithms to solve combinatorial optimization for the unit commitment problem and the DER coordination problem microgrid.

The Communication Society talked about the 2022 Wireless Telecommunication Symposium. The 2022 WTS seeking support from the section and they talked about how much support they need, what are the categories of support that they have. The section decided to have a different set of meeting discussions about it.

The Computer Society had a technical talk last May 12, 2021, How to Build an 8-Core Hyper-Threaded Computer on a Budget. The meeting started late, primarily because of some technical difficulties associated with WebEx. The main problem was that our speaker could not log into WebEx. So the entire meeting was moved to a Zoom event. So, with a 40-minute delay, they started the meeting which was attended by a total of 16 people.

Affinity Groups

The WiE and Consultant's Network will have a joint meeting. They will have a speaker that's going to be speaking on the role of AI literacy, Masheika Allgood. The title of the event is The Role of AI Literacy and Ethical AI. That will be on June 30, 2021.

The YP postponed the informal game they're planning on June 25th and as of the moment, there are 5 people interested in the Rising Stars.

Computer Society: *"How to Build an 8-Core Hyper-Threaded Computer on a Budget"*

By: Ray Moreno

On May 12th, Computer Society had its technical talk about how to build an 8-core computer on a budget with Dr. Brad Morantz.

Our speaker has rather a lengthy resume too but definitely not a bookworm, as this man likes the hands-on approach. I say this because it quickly became clear that he built many computers in his home.

Product Specifications: Power Supply 750 Gold Plus

- Good brand reputation
  - Design by Antec in CA
  - Built by Seasonic
- Read reviews
- Add up watts needed
- Have enough current?
- Get a little bigger for when you add
  - Look at power output not input
- Get high efficiency (Gold Plus)
  - Less heat
  - Lower electric bills
  - 80 plus gold certified
- Modular cables

This one is 92% efficient

Product Specifications: Case

- The bigger cases are easier to work with, less cut hands, more room to grow
- Big cases take up more room at desk
- Big cases usually cost more
- Number of cooling fans
- What size motherboard
- How many drives and what kind(s)
- Sound deadening

He covered every aspect of building a computer. He started motivations, advantages, disadvantages, and designs. he finished with the case, drives, and installing an OS.

We learned about the challenges and rewards of building one's own computer. Afterward, we had a lively round of Q&A.
I want to thank all our participants for their patients with the technical difficulties we had, the meeting ran over but they held on.

Topic: *"The Role of AI Literacy in Ethical AI"*

Guest Speaker: _Masheika Allgood_

When: _June 30, 2021_

The term artificial intelligence is everywhere, in the news, social media, in explosive documentaries. It touches most aspects of our lives but most of us don't know what it is and how it works. In this talk with Masheika Allgood, we will discuss about Ai literacy, what it means, why it's important, and how how can you get involved in shaping technology that will determine our future.

Masheika Allgood is an AI Ethicist and the founder of ALLAI Consulting, LLC, a platform for providing AI Education across various industries to people with non-tech and non-AI backgrounds. The company's goal is to create an AI literate society, allowing citizens from all walks of life feel to comfortable engaging in discussions on the use of AI technology in their lives and communities. Before founding the AllAI Consulting, Masheika founded and led the AI Ethics Workshop at NVIDIA. She is passionate about purpose-driven design, the role of product management in driving AI ethics, and developing AI education that is accessible to all. Masheika holds an LL.M in Litigation and Dispute Resolution from the George Washington University of Law School, a Juris Doctorate from Florida State University, and Masters in International Buisness from Florida State University.

Upcoming Events:

- **IEEE Foothill Consultant's Network Meeting**

  June 30, 2021

- **WiE/Consultant's Network Meeting:**

  "The Role of AI Literacy in Ethical AI"

  June 30, 2021

- **July ExCom/OpCom Meeting**

  July 13, 2021

Rialto Unified School District And IEEE Foothill Section Event

RIALTO ◈IEEE

Making More Waves
Virtual Summer School
Modules on Wave Science
June 7ᵗʰ - 11ᵗʰ, 2021
Time – 9:00am – 12:00pm

◈**IEEE**
Advancing Technology for Humanity
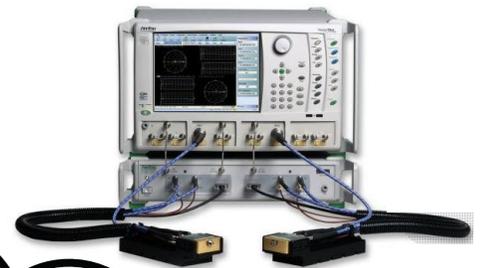
Bytes & Bots
https://bytesandbots

The Science Behind Waves & Applications
Hosted by the Rialto Unified School District with the Support of IEEE Southern California Council (ISCC) & IEEE-FH EA

Think about a Project using Arduino board and Electronics Stuff.
End of the Week We Will Announce Winning Project

Rialto School District https://kec.rialto.k12.ca.us/ | Contact Ms. Juanita Chan or DavidGonzalez@ieee.org

June 7-11, 2021

Educational Activities: "Making More Waves"

June 30, 2021:

MTT/APS: "Inside Microwave with Dr. Martens"