IEEE-Boise Section Newsletter

February 2021

From the Chair (Randy Rannow)

Thank you for your membership in IEEE. You are receiving this newsletter because you are a member of the IEEE-Boise section.

In this issue, we have articles about upcoming virtual events, networking and volunteering opportunities, and pointers to free resources available from IEEE for K-12 STEM education.

Please feel free to forward this newsletter to any of your friends and colleagues who may be interested in what IEEE has to offer. Let them know one benefit of joining IEEE is the opportunity to network with other professionals in your local area or within a specific technical interest. There's much more information about the benefits of IEEE membership at https://ieee.org/join .

If you have any questions or feedback about the IEEE-Boise section and our activities, please feel free to contact me at pi-boson@ieee.org .

Renewal Reminder

If you've renewed already for 2021, thank you! If not, don't let your membership lapse. It's easy to renew online at https://ieee.org/renew .

Upcoming Events

Find out more about these upcoming events in this newsletter and on our section web site at https://site.ieee.org/boise . You can also follow us on Facebook at https://www.facebook.com/IEEEBoise .

- Feb. 17 – IEEE WIE Event - An Engineer's Exploration of Voting Technology
- Feb. 17 – Dark, Deep, and Political on the Internet
- Feb. 22-23 – Engineering Week – Volunteers needed to interview top engineering students
- Feb. 23 – IEEE SUSTECH – Green Economy and Cybersecurity
- Feb. 25 – A conversation with Marty Cooper, the Father of the Cell Phone
- Mar. 1 – Engineering Applications During COVID-19 Online Conference
- Apr. 23 – IEEE Workshop on Microelectronics and Electron Devices

IEEE WIE Event- An Engineer's Exploration of Voting Technology (Feb 17)

IEEE Boise Section is excited to host Professor Elisa Barney Smith, Professor and Associate Chair of Electrical and Computer Engineering Department at Boise State University who will be presenting a virtual Seminar on "An Engineer's Exploration of Voting Technology" on Wed 2/17-10:30 am-11:30. For more details see https://ieee-region6.org/boise-wie/boise-wie-events.

Dark, Deep, and Political on the Internet (Feb 17)

The IEEE Computer Society Phoenix Chapter is hosting a talk by Bill Curd of SYNESYS GROUP on Wednesday, Feb. 17th (rescheduled from Feb. 10th), at 7pm-9pm MST. He will discuss the Surface Web, Dark Web, and Darknet as well as cybersecurity certifications. For more details and to register, visit https://www.eventbrite.com/e/dark-deep-and-political-on-the-internet-tickets-138016508091.

Engineers Week -- Opportunity to interview top engineering students (Feb. 22-23)

Engineers Week, or EWeek, is coming up February 21-27. As part of EWeek, the Southwest Chapter of the Idaho Society of Professional Engineers again plans to recognize the top Boise State College of Engineering junior students.

With the help of Zoom, you can make a difference as a volunteer interviewer to select the top junior student from one or more fields of engineering. Each Zoom interview will last approximately 15 minutes with 45 minute time blocks allotted for each major. Interviews will be held Feb. 22-23. Volunteers are welcome to sign up for 1 or more sessions.

Please email Lynn Olson @ lynnolson1@boisestate.edu if you are interested in volunteering to interview or forward to others that would like this opportunity to meet with the top engineering students in the Class of 2022.

For additional details, please see https://site.ieee.org/boise/2021/02/16/engineering-week-volunteers.

SUSTECH - Green Economy and Cybersecurity (Feb. 23)

SusTech 2021 is hosting talks on Sustainability leading up to the conference in April 2021.

"Green Economy and Why Cyber Security is so Important – An overview of NIST 800.53 and NIST 800.171" with David E. González, DoD Cybersecurity WorkForce (CSWF)

Date: February 23, 2021
Time: 6:00 PM to 8:00 PM PST

Registration info: https://events.vtools.ieee.org/m/259748

Conversation with Marty Cooper, the Father of the Cell Phone (Feb. 25)

Martin Cooper is an engineer, inventor, entrepreneur, and futurist. He is known as the "father of the cell phone." He led the creation of the world's first cell phone at Motorola—and made the first public call on it. Over nearly three decades at Motorola, Cooper contributed to the development of pagers, two-way radio dispatch systems, quartz crystal manufacture, and more.

When: Thursday, Feb. 25, 2pm Mountain Standard Time (4pm Eastern Standard Time)

Sponsored by IEEE-Eta Kappa Nu.

More information and registration at https://tinyurl.com/yt8w18qv .

Engineering Applications During COVID-19 Online Conference (Mar. 1)

The conference studies the impacts of COVID 19 on Energy, Water and Transportation and also presents new relate engineering applications. For more details, see https://www.eventbrite.com/e/engineering-applications-during-covid-19-online-conference-tickets-140276357361.

IEEE Workshop on Microelectronics and Electron Devices (WMED-2021) (Apr. 23)

WMED 2021 will be held Friday, April 23rd. It will be held virtually due to the pandemic. For more information, see https://www.eventbrite.com/e/2021-ieee-workshop-on-microelectronics-and-electron-devices-wmed-2021-tickets-91341096679 .

Volunteer!

We know your free time is limited and it may be difficult to volunteer on a continuous or regular basis. IEEE has many volunteer opportunities available, short-term as well as long-term. We'll publicize local opportunities in this newsletter. You can find out about more opportunities through the IEEE Volunteering platform, https://volunteer.ieee.org/ .

Student Virtual Speakers Bureau

Sign up to support students worldwide by volunteering to be a speaker about anything professional or technical at a very general level. You don't need to be a PhD to give a talk that will make a big influence on a group of students. Students prefer practical entry level talks. For more information and to sign up to be a virtual speaker, visit https://students.ieee.org/virtual-speakers/ .

Section Volunteers Needed

The Boise section is currently seeking volunteers for the following positions:

- Education Activities Chair (K-12 STEM outreach activities)
- Student Activities Chair - Your principal responsibility is to promote student activities in all student branches within our section. You will be working with student officers and branch counselors as well as your Regional leadership team to ensure that our section has a strong and vital student activities program.
- Signal Processing Society Chapter Chair

If you are interested in any of these positions or volunteering for another role within the section, please contact Randy Rannow at pi-boson@ieee.org .

Free K-12 STEM resources available from IEEE

Check out https://tryengineering.org, an IEEE website that provides free pre-university-level engineering resources for educators, parents, and students. The site offers a catalog of engineering lesson plans with hands-on design challenges, resources for teaching in a virtual environment, career profiles, games, and much more.

There's also information about additional IEEE pre-university resources here: https://www.ieee.org/education/preuniversity/index.html .

Future City

In last month's newsletter, we announced that the Boise section and the Boise Power and Energy Society are proud to be sponsors again for this year's Idaho regional Future City Competition. The Idaho regional competition was held on Friday, January 22nd. The winner of the IEEE special award was the "Oasis of the Stars" team from Garden Valley. They also took 4th place overall in the competition. Congratulations team! For more details please see https://site.ieee.org/boise/2021/01/23/idaho-regional-future-city-competition.

IEEE Standards Study Group on Additional Floating-Point Formats to Support Machine Learning

The IEEE Microprocessor Standards Committee MSC just formed a new study group (IEEE Standards Study Group on Additional Floating-Point Formats to Support Machine Learning). It is inviting the

stakeholders from industry and academia to join and participate in this study group. See http://www.bit.ly/ieee_ml_fp on information about this newly formed group and the instructions on how to join this study group.

Future Newsletters

If you have a topic you'd like to suggest or an article you'd like to contribute to a future newsletter, please send it to Chris Gunning at cgunning@ieee.org . Thank you!