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Region News & Events

Two important milestone events were held on Wednesday, August 15th. The first was held at the Shockley Lab site in Mountain View, California and included an unveiling of an IEEE Milestone plaque for The Birthplace of Silicon Valley and a short presentation by Stanford's Jim Gibbons. IEEE President James Jefferies helped officiate the afternoon event, which also introduced an amazing outdoor area that showcases the importance of this historical location, the Shockley Lab site where silicon devices were first fabricated.

The second IEEE Milestone Dedication held at the Computer History Museum

discussion titled "Tomorrow's Computers: More Moore?".



Leaders from Santa Clara Valley Section with President Jim Jefferies and other IEEE leaders at the 391 marking the address of the birthplace of Silicon Valley.
(Photo by Gloria Jefferies)



IEEE REACH is a STEM program with online educational resources that help our history reach the next generation. High school students know how to use the latest gadgets, but most are unaware of who invented the technologies, and how they impact not just their lives, but all of society. To fill the gap, the IEEE History Center developed REACH (Raising Engineering Awareness through the Conduit of History). [Read More »](#)

Region Meetings

Mike Briggs, Chair of Coastal Los Angeles Section, with UCLA students accepting an



IEEE Region Meetings are held throughout the year, kicking off with the region-wide meeting in late January/early February. Each spring and fall, our five areas meet with section leadership and student branch leadership to gather and discuss issues that relate to member and student member activities, officer training, networking, sharing ideas, and providing a venue to collect needs and ideas from across the area to make the IEEE experience better than ever. Save the date for your own area meeting coming this fall:

- October 6 in R6 NW Area Spokane, WA ([View](#))
- October 13 in R6 NE Area Salt Lake City, UT ([View](#))
- October 20 in R6 CE Area Santa Cruz, CA ([View](#))
- October 27 in R6 SW Area Albuquerque, NM ([View](#))
- November 3 in San Diego - R6 ExCom Meeting ([View](#))
- November 10 in R6 SO Area Long Beach, CA ([View](#))

Save the Date: The 2019 OpCom meeting will take place on January 25-27, 2019 in Tempe, Arizona. More information can be found [here](#).



Call for Volunteers

Region 6 is looking for one or more volunteers to serve as Webmaster, Social

and the general public. If you have skills in one or more of these areas and are interested in working closely with region officers to revitalize our web presence, please send an email with your intent to serve and pertinent experience to keith.moore@ieee.org by December 15th in order to be considered!

Student Activity Highlights



Maker Faire Bay Area 2018

Maker Faire started in San Mateo, California in 2006, attracting DIY fans. Maker Faire exhibitors come from all over the world to share their handiwork and spark excitement in visitors – a great incubator for Engineers-To-Be! The IEEE Santa Clara Valley (SCV) Section has been engaging Future Engineers at Maker Faire since 2011, to encouraging interest in STEM fields.

A special event kicked off the Faire. Joseph Wei, SCV Section Chair, invited by Maker Founder Dale Dougherty, hosted a table at the “Industry, Career, and College Day”, for students and young people to explore career paths, education, and industry possibilities. The Section booth was staffed by our IEEE students and members. Students came from Stanford, UCSC, and Ohlone College, to showcase their projects to booth visitors. Hands-on activities challenged visitors to make electrical connections. Everyone had fun making fans spin, LEDs light up, and experiencing the motion of an ERM motor.

[Visit Website »](#)



OSU Branch STEM Road Show



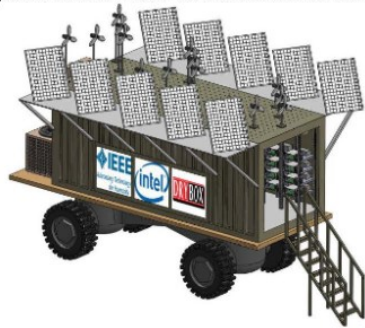
The Oregon State University (OSU) student group received support from Region 6 for their project entitled “Data Center of the Future Road Show” that embodies part of IEEE’s core values of Growth and Nurturing, Global Community Building, and Partnership. Their Electronic Packaging Society (EPS) student group is pioneering efforts to bring more young talent into electronics packaging and thermal management. In addition to the outreach, education, and research regularly documented on their [Facebook](#) and [Twitter](#) feeds, they have built the first and only computer collegiate computer overclocking team in the United States.

This initiative has produced a talented group of mostly freshmen and sophomores. These students already have an interest in high-performance computing, gaming, and Virtual Reality (VR), which their Chair Matthew Harrison and Faculty Advisor Dr. Gess have been able to turn into teaching and engagement on state-of-the-art techniques in the electronics packaging world. We believe that it is time that these students get a chance to show their skills in a modular and transportable format that takes them out to engage diverse sections of society face-to-face. A balanced portfolio of renewable energy and fossil fuels is important for any application, but it will be impactful to those visited by the roadshow exhibit to see how this can improve services that they use every day. Incorporating hands-on VR for the visitors to the exhibit will engage people of all ages and experience levels. Dynamic updates to data center performance, as well as showing a time log for educational purposes, is an excellent way to show how, where, and when renewables can best fit into one’s energy portfolio.

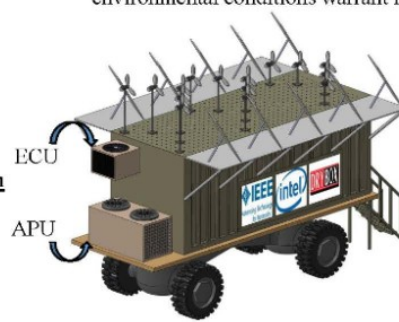
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Modular renewable energy allows students to optimally adjust locations based on environmental conditions

Auxiliary Power and Cooling available should environmental conditions warrant it



Deployed Configuration



Sponsor's Logos on display for each road trip the EPS group takes

Area reserved for fun and educational Virtual Reality gaming

Real time operating temperature, Power Usage Effectiveness (PUE) and renewable energy contribution are dynamically on display



Transport Configuration

Load cells installed away from activity and out of sight.



Cutaway View

OSU Overclockers custom built systems are on display for educating the public and industry visitors

Young Professional Highlights



*2nd Annual IEEE
PNW YP
Leadership
Summit*

High doses of value were delivered to IEEE Young Professional Members in Region 6 & 7 on August 4th, 2018 as Vancouver BC section hosted the 2nd annual IEEE PNW YP Leadership Summit.

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Northwest Leadership Summit aims to provide a 1-Day event where young professionals assemble to expand borders and foster growth with relevant activities and discussions to: Inspire, Enable, Empower, and Engage. This event was sponsored & supported by IEEE Canada (IEEE R7) as well as Seattle & Oregon sections.

The IEEE PNW Young Professional Summit is slated to rotate annually across Seattle, Vancouver BC, and Portland to continue the mission of organizing events that encourage active networking and engagement among its IEEE PNW YP members. The 2019 PNW YP conference is scheduled to take place in Seattle, WA in July 2019. Coming soon: [IEEE Rising Stars](#) is the premier event for both Young Professionals and Students will be held in Las Vegas January 4-6 ahead of CES. Register by November 15.

WIE Activity Highlights

*Empower Female
Entrepreneurs at
the 2018 WIE ILC
Startup Pitch
Competition*



Women-in-Engineering International Leadership Conference (WIE ILC) is IEEE's premier conference dedicated to help female professionals to succeed in STEM. It caters to a broad audience of professionals in academia, industry, and government. One of the highlight's of this year's Conference is the WIE ILC Startup Pitch Competition, with the goal to inspire, assist and engage female entrepreneurs and help them succeed in the startup environment. [Read More »](#)

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WIE Tech Summit for Women in the National Laboratories

The one-day meeting occurred at Fuller Lodge in Los Alamos, NM, USA on August 7, 2018. It was on the topic of women in government service. We had participation from Los Alamos National Laboratory (LANL), Sandia National Laboratory, Pacific Northwest National Laboratory, Lawrence Berkeley Laboratory, the Air Force Research Laboratory, and the state of NM. The Los Alamos Northern New Mexico section also provided scholarships for Santa Fe Community College students to attend the tech summit.

The morning focused on mentorship and sponsorship, and the afternoon was a potpourri of technical talks. The day started off with a keynote from John Sarrao, who is the Principal Associate Director for science, technology, and engineering at LANL, on the topic of "a diversity of thought" that showed the importance of engineering to the national security mission. A panel of female executive leaders at LANL, including NJ Nicholas currently the only female Principal Associate Director at LANL, answered questions on the topic of sponsorship and mentorship over their careers. They covered a wide range of topics, including having to restart your career, making decisions about work/life balance, and advancing as a technical leader in national laboratories.

The Center for Creative Leadership finished the morning with a workshop on mentorship and sponsorship. The afternoon's topics were wide-ranging from radiation effects in nano-scale electronics to simulating the design of the entire universe, from smart cities to unconventional computing paradigms, and most importantly the role of IEEE in helping advance technical women. All of these afternoon talks highlighted the rich variety of work done in the national laboratory system. At the end of the day, it was decided to hold another summit next year at the Pacific Northwest National Laboratory in Washington state.

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2018 IEEE Global Humanitarian Technology Conference

October 18-21, 2018

San Jose, CA

Now in its 8th year, the IEEE GHTC is an international flagship conference on the application of technology to meet the needs of underserved populations around the world and in support of United Nations Sustainable Development Goals (UNSDG). More information can be found on their website. Save now with early bird registration until August 31.

[Visit the Website »](#)

2018 IEEE Infrastructure Conference

September 20, 2018

San Francisco, CA



Attend the 2018 IEEE Infrastructure Conference on September 20 in San Francisco! Join industry experts from top tech companies including Twitter, HP Labs, Facebook, Microsoft, Pinterest, and more to identify trends, challenges, and solutions to shape the future of software infrastructure.

[Visit the Website »](#)



2018 IEEE Technology Time Machine

October 31 - November 1, 2018

San Diego, CA

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Tomorrow.” Participants will not only get a glimpse into tomorrow but also see its relevance to today.

[Visit the Website »](#)

*2018 IEEE Conference on
Technologies for
Sustainability*

November 11-13, 2018

Long Beach, CA

SusTech 2018

SusTech 2018 invites undergraduate and graduate students to submit abstracts for the Student Poster Contest. Students are invited to send in ideas or designs for developing projects/products supporting the sustainability topics areas of the Conference. The selected posters will be displayed during the SusTech 2018 Student Poster Session, on Sunday, November 11, being held in Long Beach, California, USA. Submissions are due **September 15th**. View the full call for posters [here](#). Save now with early bird registration until September 10.

[Visit the Website »](#)



2019 IEEE Rising Stars Conference

January 4-6, 2019

Las Vegas, NV

IEEE Rising Stars Conference is designed to inform, excite, enthuse, and enlighten the top engineering young professionals and students from around the world. The program includes interactive events, competitions, technical innovation talks from industry experts, networking opportunities and professional development. Registration is now open! Register by November 15 for the best rate.

[Visit the Website »](#)

News for Volunteers

*IEEE Day is October 2 -
Plan Your Way onto the
Map Today!*



While the world benefits from what's new, IEEE focuses on what's next. IEEE Day celebrates the first time in history when engineers worldwide and IEEE members gathered to share their technical ideas in 1884 and is themed: "Leveraging Technology for a Better Tomorrow". IEEE Day 2018 will be celebrated on **October 2, 2018**. IEEE members in local communities join together to collaborate on ideas for this celebration.

IEEE Region 6 Ambassador Karan Kantharia of ASU reports his branch is going to be celebrating with talks and workshops for all the students given by companies in the Phoenix region in a project supported by the Phoenix section. What is happening near you? Let us know by adding it to the map and please enter the photo and video contests. Go to www.ieeeday.org today.



*IEEE Xtreme is coming -
spread the word!*

IEEE Xtreme is the global competition in which teams of IEEE student members compete in a 24-hour time span to solve a set of programming problems. IEEE Xtreme 12.0 will be held October 19-20.* Teams of up to three collegiate students who are IEEE student members can compete. A local college or university may form multiple teams.

Region 6 will sponsor the top-scoring team in the region to attend the IEEE Rising Stars Conference in Las Vegas in January. Help spread the word and encourage Region 6 students to compete.

offer incentives for students in your sections to compete. Some sections have lined up great awards including sending their top local team to Rising Stars.

Student branch volunteers and advisers: Promote IEEEExtreme on your campus. Come up with your own awards and incentives. It's a great way for student branches to recruit new members.

Students: Get with a friend or two to form a team and join the fun! Teams can register now.

More information about IEEEExtreme can be found [here](#) or please contact [Chris Gunning](#).

*Region 6 time zones. Specifically, IEEEExtreme starts Oct. 20 at 00:00:00 UTC.

OU Analytics User Group

The OU Analytics tool provides IEEE volunteer access to member data. It replaces SAMIEEE which was sunset in May. The OU Analytics User Group was recently formed to facilitate discussions among users, identify the top issues affecting user productivity, and provide a communication path between users and IEEE staff working to improve OU Analytics. If you are interested in participating, contact [Chris Gunning](#) or [Larry Hamerman](#).

[More Information »](#)

Awards Announcements

Call for MGA Awards

If you know someone who has made substantial regional IEEE volunteer contributions through innovative projects, exemplary leadership, service, or by fulfilling the goals as related to transnational activities, consider nominating them for one of the following prestigious MGA Awards. Nominations are due

MGA Awards:

- MGA Larry K. Wilson Transnational Award
- MGA Innovation Award
- MGA Leadership Award
- MGA Achievement Award
- MGA Young Professionals Achievement Award



Call for Nominations: IEEE-USA Awards
Recognizing excellence, outstanding service, and contributions to professional activities

Deadline: September 30, 2018

You can help recognize the efforts of outstanding volunteers by nominating individuals for one of the prestigious IEEE-USA Awards and Recognition. IEEE-USA Awards are given to recognize professionalism, technical achievement, and literary contributions to public awareness and understanding of the engineering profession in the United States. If you know someone who is deserving of an IEEE-USA technical, professional or literary award consider nominating them for one of the following awards:

- Robert S. Walleigh Distinguished Contributions to Engineering Professionalism Award
- Award for Distinguished Public Service
- George F. McClure Citation of Honor
- Jim Watson Student Professional Awareness Achievement Award
- Harry Diamond Memorial Award
- K-12 STEM Literacy Educator-Engineer Partnership Award
- IEEE-USA Entrepreneur Achievement Award for Leadership in Entrepreneurial Spirit
- Award for Distinguished Literary Contributions Furthering Public Understanding and Advancement of the Engineering Profession

Please email [IEEE-USA Awards](#) or call David Iams (202-530-8374) with any questions about the IEEE-USA Awards and Recognition Program.

Nominate a Colleague Today!

San Diego Chapter wins IEEE Computational Intelligence Society Outstanding Chapter Award

August 2018 -- IEEE Region 6 congratulations the San Diego Chapter of the IEEE Computational Intelligence Society (CIS). They have been honored as an outstanding chapter. This award recognizes the chapter that provided the greatest overall contribution and service to its members; the local scientific, professional, governmental, and educational communities; and the IEEE CIS. The San Diego Chapter is organized or co-organized 15 different events in 2017, including two student hackathons and popular joint meetings. Over 130 attended their "AI and Deep Learning in the Enterprise" meeting with speaker Dr. Michael Zeller that was co-sponsored with the San Diego Chapters of the IEEE Computer Society, and the Women in Engineering and Young Professionals. Congratulations to Chapter Chair Douglass Evans and all of the IEEE San Diego Section.

Elizabeth Johnston honored with IEEE Power and Energy Society Robert Norberini Award

Elizabeth Johnston, PE, was honored by Power and Energy Society (PES) for her advancement of professional, technical and humanitarian initiatives in the society's fields of interest at the IEEE PES General Meeting held in Portland in

August 2018. In addition to her award-winning technical work in power and energy, Elizabeth Johnston is the Student Activities Coordinator



Executive Committee.

Region 6 2018 MGA Student Awards Announced

Exemplary Student Branches 2018: the purpose of this award is to provide public recognition of exemplary IEEE Student Branch operations

- Portland State University
- University of California Los Angeles
- USC
- Oregon State University

Larry K. Wilson Award: the purpose of this award is to recognize annually, in each Region of the IEEE, the student most responsible for an extraordinary accomplishment associated with student activities.

- Matthew Harrison of Oregon State University

2018 IEEE Region 6 Awards Announced

by Loretta Arellano, IEEE Region 6 Awards Chair

The IEEE Region 6 Awards Committee is pleased to announce 14 awardees of the 2018 IEEE Region 6 Awards. The honorees will be recognized at a variety of upcoming region events. Please congratulate all of them for their important contributions to the mission of IEEE in the region. The committee would like to acknowledge the important contributions of the many nominators and endorsers for their contributions with 27 nominations. We wish to particularly note the Phoenix Section, the Santa Clara Valley Section, the Metropolitan Los Angeles Section, Boise Section, Seattle Section, San Fernando Valley Section and the Coastal Los Angeles Section for their leadership on awards and work to provide recognition to the many fine nominees and honorees. Sincere thanks to IEEE Region 6 Awards Committee members Charlie Jackson, Peijung Tsai, Sevada Isayan and Kishore Erukulapati.

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- Outstanding Engineer – Dr. Goutam Chattopadhyay
- Outstanding Service and Leadership to the IEEE – Chris Gunning
- Outstanding Chapter of the Year – IEEE Phoenix Section Computer Society Chapter
- Outstanding IEEE member who promoted Women in Engineering – Dr. Lina Karam
- Outstanding Large Section – Phoenix Section
- Outstanding IEEE member who promoted Life Member Activities – Dr. Peter Shackle
- Outstanding IEEE member who promoted Membership Development or Senior Member Elevation – Ralph Ramond Hogan
- Outstanding Contributions to STEM and Education as a Mentor, Assistant, or Facilitator – Dr. Anna Prakash
- Outstanding Corporation – ON Semiconductor
- Outstanding Large Student Branch – Cal State Long Beach
- Outstanding Small Student Branch – Phoenix DeVry University
- Outstanding K-12 Educator – Dr. Michael Block and Dr. Olga Block

Humanitarians Activities

IEEE Region 6-based Humanitarians Activities Support AnnieCannons

AnnieCannons is an Oakland-based nonprofit with a mission to transform survivors of human trafficking into software professionals. With annual support from IEEE Humanitarian Activities in IEEE Region 6 since 2015, AnnieCannons has consistently increased the number of trafficking survivors they've trained and helped their students generate good incomes that allow them to live comfortably. AnnieCannons reports that IEEE funds have helped AnnieCannons scale year over year increasing from \$6,277 in 2015 to generating \$68,151 in client revenue in 2017, supporting students and graduate contractors.

In 2018, AnnieCannons anticipates that client revenue will triple. One of their graduates has already secured \$40,000 in development contracts in 2018, and continues to pursue advanced learning opportunities through their programs. In January, they signed a \$50,000 mobile app development project where their top

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a data entry project for Palantir Technologies while working entirely remotely. This year, they've also signed large clients such as Sequoia Capital, TCV Ventures and Claremont McKenna College that will help AnnieCannons and its students enhance their product portfolios. They are excited to build on this momentum in the months to come, and express gratitude to IEEE for helping them grow.

Looking to do more? Both the [IEEE Humanitarian Activities Committee](#) and the [IEEE SIGHT](#) have calls for proposals open now for larger and smaller projects – submit until September 1, 2018.

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