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IEEE Region 6 Newsletter - Winter 2018

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Message from the Director

Working to Not Be Boring

greatest jobs I've ever had. Our region has have had one major strategic goal started for each of the years: **Creating the Next Generation of IEEE and Transforming Our Organization for the Next Century.**

To create the Next Generation: we took on this Star Trek theme and have transformed our organization with and for Students, Young Professionals, and Women in Engineering. By changing who is included at the table, even changing bylaws to make sure we did this, we redesigned region activities to serve the needs of working and learning professionals and those of our future professionals. We've been able to change ourselves to better provide a professional home base that inspires and enables each of us to be our best and brightest. I am also very proud of the large number of our region's leaders who have become world leaders, allowing us to help create the next generation across IEEE.

For the last two years we have come together across the region to produce and support members, to make the world a better place, and to support the next generation of IEEE through major efforts like Rising Stars, Women in Engineering International Leadership Conference, SPARKing global collaborations, leadership in Student Activities, and organizing flagship conferences in Global Humanitarian Technology and Technologies for Substantiality.

I am truly grateful to 2019 IEEE-USA President **Tom Coughlin** who's been serving with me as my "Past Director," but I am also enormously thankful to a list of extraordinary leaders who are Past-to-the-nth Power Directors: **Mike Andrews, Ed Perkins, Loretta Arellano, Larry Hamerman, and Dick Doyle.** All of them have taken on multiple key roles where their expertise was needed, again and again. They warned me that I was taking on a 6-year commitment – counting the campaign, it is actually a 7-year commitment and I have two more years as Past Director, but I can see this has continued far longer than that for some of these Stars.

My sincere best wishes and congratulations to our incoming 2019 Director, Keith Moore and to our recently elected 2021 Director, Tim Lee. Looking forward to 2019? **Please make sure you have renewed your membership today** so that you are ready for 2019 and will stay a part of our region efforts and will be there to help keep us advancing technology for humanity.

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Douglas Adams, as quoted by my favorite past Director]...

So long and thanks for all the fish,

Kathleen Kramer

Director, IEEE Region 6, 2017-18

Region News

Recently Approved Region 6 IEEE Milestones

Two new IEEE Historic Milestones were approved recently by the IEEE History Committee: DIALOG Search Engine and the Apollo 11 Lunar Laser Ranging Experiment. Sincere congratulations to proposer and IEEE Region 6 Milestone Coordinator Brian Berg. More milestones? If you have an idea for a Milestone (and particularly one related to Apollo 11 as its 50th anniversary will be next summer), contact Brian at b.berg@ieee.org.

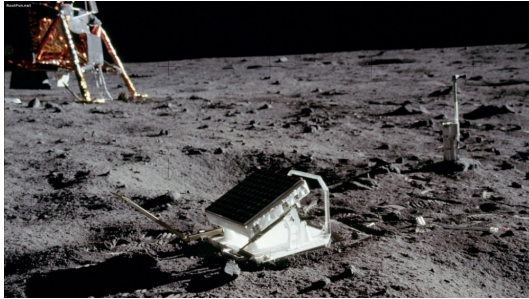
DIALOG Online Search System, 1966

While working at Lockheed in Palo Alto, Dr. Roger Summit established a laboratory in 1964 to study the creation of a computerized search system.

Using data from NASA Ames Research Center, an online system using a dial-up line was operational in 1966. DIALOG is actually still in use today under the name ProQuest Dialog. One of its licensees is the US Patent and Trademark Office, and patent examiners use DIALOG to find prior art while considering the merits of patent applications.

Apollo 11 Lunar Laser Ranging Experiment (LURE), 1969

One of the experiments that was part of the first mission to the lunar surface had the Apollo 11 astronauts leave behind a retro-reflector, a device that uses precisely placed mirrors to reflect a light beam back along a vector parallel to but opposite in direction from its source. This allowed a powerful earth-based laser to be used to determine the distance from the earth to the moon. Lasers located in four locations were used to attempt to be the first to accomplish this - including an unexpected one from the Soviet Union! The first success was

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astronauts are leaving the lunar surface as shown near the end of the recent movie *First Man*, you will see the outline of the retro-reflector that the Apollo 11 astronauts left in the Sea of Tranquility, and which is still operational today.

Celebrating IEEE Spokane's 105th Anniversary

IEEE officers, students, and Region 6 guests from San Diego to Alaska joined IEEE Spokane on October 5-6, 2018 to celebrate the section's 105th Anniversary, in conjunction with the IEEE Region 6 NW Area Meeting at the Red Lion River Inn. Highlights included Friday's 105th Anniversary Dinner – a lavish Italian Buffet held at Luigi's downtown, a tour of the Avista Upper Falls Power Plant, led by PES Chair Glen Farmer, and a fall color and art walk in Riverfront Park, led by Industry Co-Chair, Janelle Lee. The two-day event was enjoyed by over 75 participants and friends of IEEE Spokane.

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UC-Irvine Team Wins IEEEExtreme Region 6 Top Honors

On October 19-20, 41 teams in Region 6 and over 4000 teams worldwide competed in IEEEExtreme 12.0. IEEEExtreme 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. Three students from UC-Irvine were this year's top-scoring team in Region 6.

The members of the winning team, "Sheep", are Rachel Weber, Wyte Krongapiradee, and Frank Shi. They placed 6th out of 188 US teams and 48th worldwide. Region 6 will sponsor them to attend the [IEEE Rising Stars Conference](#) in Las Vegas in January.

- Rachel is a senior studying software engineering. She enjoys learning programming languages and studying cybersecurity. This was her first time participating in a programming competition.
- Wyte is a 4th-year computer science major. Last year he was a member of the team "UCIrvine76ers", which was the top-scoring team in Region 6 for 2017. He was also part of the UC-Irvine team in the regional rounds and the world finals of the ACM International Collegiate Programming Contest.
- Frank is a first year Master of Computer Science student. He participated in the ACM programming contest as an undergraduate. This was his first time competing in IEEEExtreme.

[here](#). Congratulations to all for their outstanding performance!

Region Meetings & Events

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 spring:

- March 23, 2019 | R6 SO Area - Los Angeles, CA ([View](#))
- March 30, 2019 | R6 NW Area - Portland, OR ([View](#))
- April 6, 2019 | R6 NE Area - Idaho ([View](#))
- April 13, 2019 | R6 SW Area - San Diego, CA ([View](#))
- April 13, 2019 | R6 CE Area - Sacramento, 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](#).

[Register](#) for the OpCom meeting today!

Call for Volunteers

IEEE sections, chapters, student branches, and even IEEE Region 6 relies on volunteers to make membership great and advance technology for humanity. There are 1400 volunteers contributing in IEEE Region 6.

be most welcome. These volunteer positions are critical to the success of the region in communicating with our members 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 20th!

Conference Highlights



2019 IEEE Rising Stars Conference

January 4-6, 2019 | Tropicana Las Vegas

Kick off 2019 with next generation IEEE in Las Vegas. As an IEEE-USA event within IEEE Region 6, IEEE Rising Stars Conference is designed to inform, excite, enthuse, and enlighten the top engineering young professionals and students. The conference brings together the most promising students and young professionals around the world to network and is inspired by each other. **In 2019, IEEE Rising Stars will be the first IEEE-USA co-sponsored conference of the year.** The event will include speakers from Intel, Nvidia, BitCasas, DARPA, The Aerospace Corporation, NASA, and more. **Special thanks to IEEE-USA support and involvement.** In addition: IEEE Young Professionals, Student Activities, EPICS, IEEE AESS, IEEE MTT-S, and more, the 2018 IEEE Rising Stars increased participation by 80% year over year.

2019 Conference chair Ramesh Nair, IEEE-USA Young Professional Representative for 2019, has an international committee that is developing the program that includes interactive events, competitions, technical innovation talks from industry experts, networking opportunities and professional development. Registration for 2019 Rising Stars is open now. For up-to-date information, please visit ieee-risingstars.org.

IEEE GHTC 2018 is a world-class flagship conference focused on discussing sustainable development and humanitarian technology-related policy, insight and experiences showcasing activities aligned with the United Nations Sustainable Development Goals (UN SDGs). The 8th GHTC was held October 18-21, 2018 in San Jose, CA, USA. See 2018.ieeeghtc.org for full details.

GHTC 2018 drew 185 attendees from 25 countries and featured plenary presentations, paper, and poster presentations, workshops, panel discussions, and unconference sessions. Researchers and practitioners exchanged experiences related to Disaster Mitigation, Affordable & Clean Energy, Agriculture & Food Security, Clean Water & Sanitation, Community engagement and capacity-building, Connectivity & Communication, Healthcare, Applications for Poverty Alleviation, Humanitarian Challenges & Opportunities, Education and Entrepreneurship. [Read More](#)



IEEE SusTech 2018

The 2018 6th IEEE Conference on Technologies for Sustainability ([SusTech 2018](http://SusTech2018)) was held on November 11-13, 2018 in Long Beach, CA. SusTech 2018 drew 100 attendees from 21 countries. The program featured a tour of the nearby Haynes Power Plant, workshops on IEEE Smart Grid standards and IOT for sustainability, a student poster contest, five keynotes and a plenary session on water policy, and over 60 technical papers and invited presentations. [Read More](#)

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*2019 Vision | Innovation
Challenges Summit and
Honors Ceremony*

May 17, 2019

Marriott Marquis, San Diego, CA



The **IEEE VIC Summit** brings together leading innovators, visionaries, and disruptors in technology to discuss, explore, and uncover what is imminent, what is possible – and what these emerging technologies mean for our future.

The summit culminates with an **Honors Ceremony Gala** which celebrates the contributions of some of the greatest minds of our time who have made a lasting impact on society for the benefit of humanity.

Also - join us for a **pre-event Evening of Innovation** on May 16th at Qualcomm, with panel discussions featuring Gala award winners – sponsored by Qualcomm, IEEE Region6 WIE/YP and IEEE San Diego Section.

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*IEEE Women in Engineering
International Leadership
Conference*

May 23-24, 2019

Austin, TX

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technology, whether in industry, academia, or government, the opportunity to create communities that fuel innovation, facilitate knowledge sharing, and provide support through highly interactive sessions designed to foster discussion and collaboration. IEEE WIE ILC focuses on providing leading-edge professional development for mid-level and senior women.

[Visit the Website »](#)

*2019 IEEE Global
Humanitarian Technology
Conference*

October 17-20, 2019
Seattle, WA



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).

Region 6: The Next Generation

Growing Our Student Membership and Activities

We're up 16%. In 2018 IEEE Region 6 Student membership increased from 5,539 total students to 6,438.

In addition to forming several new branches and some big gains from our very large student branches, we'd like to celebrate these recovered branches and the sections who shepherd them:

- California Baptist University – Foothill Section
- University of Arizona South – Fort Huachuca Section
- Montana Tech – Western Montana Section
- DigiPen Institute of Technology – Seattle Section
- Central Washington University – Central Washington Section
- WSU North Puget Sound at Everett – Seattle Section
- California State University Bakersfield – China Lake/Bakersfield
- Northwest Nazarene University – Boise Section

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Student activity award nominations are due **February 1**: [Nominate Here](#).

What can you do? Please help to get your local branch nominated.

Region 6 = Young Professionals Leadership

Coming in just a few weeks: IEEE Rising Stars in Las Vegas January 4-6, 2019. Young Professionals from across the region are called to participate in a **Young Professionals Leadership Workshop** that will occur immediately following the conference. The conference + workshop is incredibly valuable for Young Professionals (especially YP leaders) and I highly recommend that you attend.

IEEE Region 6 leader [Abdur Rehman](#) can provide a discount code to still get the early-bird pricing for Young Professionals in your local section – we want to support and invigorate YP activities across IEEE Region 6; there is still a chance to get good rates for hotel and airfare.

Kudos to IEEE Region 6 Young Professionals Leadership for its 7 new affinity groups, amazing strength in Seattle and the San Francisco Bay Area, and successful partnerships on major international events. Coming in July 2019: Young Professionals in the Pacific Northwest.

Women in Engineering – IEEE Region 6 Leading in 2019

IEEE Region 6 Women in Engineering (WIE) Coordinator Kathy Herring Hayashi has been leading successful efforts across the region. Check out her video on IEEE.TV: [WIE-ILC Video from Kathy Herring Hayashi](#).

Coming this May: On May 16 a WIE-sponsored event celebrating the IEEE Honors Ceremony at Qualcomm in San Diego and the [WIE International Leadership Conference](#) May 23-24 in Austin, Texas that Kathy is chairing. In 2018 WIE brought two successful WIE Tech Summits to San Jose, CA and Santa Fe, NM; look for the next one to be in southern California in summer 2019.



Region 6: Los Alamos WIE Tech Summit

Life Members: Driving Force for Good IEEE

IEEE Life Members are a driving force for IEEE through Life Member Initiatives, such as IEEE Milestones and other history center projects. The Life Member Fund provides significant support for communities across IEEE, particularly K-12 students and IEEE student members.

Sincere thanks for his three years of leadership for Life Member Activities across the region to John Kroon, IEEE Region 6 Life Member Coordinator 2016-18, and to Dick Ahrons for his longtime and continuing contributions on historic milestones. Congratulations to Tucson, Santa Barbara, and San Luis Obispo area life members for forming these new Life Member Affinity Groups (LMAGs):

- IEEE Tucson Section Life Member Affinity Group
- IEEE Central Coast Section Life Member Affinity Group



Membership News

Congratulations to our Membership Development leaders Ralph Hogan and Abdur Rehman, and to the 10 Sections recognized for outstanding recruitment and retention:

- Santa Clara Valley
- San Diego
- Coastal Los Angeles
- San Fernando Valley
- Boise
- Las Vegas
- Central Washington
- China Lake/Bakersfield
- Northern Nevada
- Alaska

Some Cool Beans from the Director



Thank you for volunteering. IEEE Region 6 has over 1400 volunteers across its over 300 different organizations. I would particularly like to mention these five for recognition this month, calling them out for notable contributions, well deserving of "Cool Beans".

- In 2017, Jeffrey Pawlan, worked tirelessly as 2017 Awards Chair, to transform the Region Awards Program and completely change its technology base.
- In 2018, major innovator Chris Gunning, as 2018 vTools Coordinator, not only inspired new heights of IEEE Xtreme but also transformed IEEE members' abilities with VTools by leading OU Analytics User Group. He was awarded the 2018 Region Award as Volunteer of the Year.
- In 2017 and 2018, Sheree Wen, as Region Government Relations Chair, made outstanding and innovative contributions to Government Relations

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- In 2018, Paulo Vasconcelos, as the Region SPAX Coordinator, has been supporting transformations of student activities in Oregon and in 2018 began an effort on behalf of student professional awareness region wide.
- In 2017 and 2018, Ed Aoki has, again and again, responded to our call for guidance and support in finance – whether for IEEE GHTC, for the dozens of local accounts, or for the needy-of-expertise sections all across our region.

Kathleen Kramer

IEEE Region 6 Director, 2017-2018



Power & Energy Society®

*Congratulations to all the
Region 6 PES Scholars!*

Congratulations to the Arizona State University for being the School with the most students selected as IEEE Power and Energy Society (PES) Scholars in 2018! Eight students from Arizona State University were selected and 37 scholarships have been provided to students at ASU since 2011. Honorable mentions to the University of Idaho and Washington State University for their awards of 6 scholars each. Special recognition to these scholars:

- **Kaleb Spencer** - Washington State University is a recipient of the PES John W. Estey Outstanding Scholar Award as the top PES Scholar from IEEE Region 6.
- **Jason Cornell**, **Brian Wu**, and **Bruce Yawn** of Arizona State University and **Ishaan Bhimani** of the University of Washington have been recognized as Schweitzer Meritorious Scholars.

The full listing of PES Scholars can be found [here](#).

Volunteers: News You Can Use

Reporting

In an effort to strengthen the relationship between Sections and Student Branches there are two main changes:

1. New relationship: Student branches will now be a part of their local section, with a similar status in the section as one of its chapters or affinities. As part of this, Sections are to have one student as a voting member of their Executive Committee (Section Student Representative=SSR).
2. New reporting: Between November 1st and February 1st, Student Branches need to **submit an annual plan through [vTools](#)**. They will also still need to submit their annual report and report their officers to get their rebate. Sections: Please reach out to students and help them with their planning and remind them to do this.

Congratulations to IEEE Region 6 leader Elisa Barney for her appointment as the 2019 IEEE Member & Geographic Activities–Student Activities Committee Chair – she will be leading Student Activities across all of IEEE: **Elisa Barney**, SACchair@ieee.org.

Questions or looking to support student activities in your area? Contact IEEE Region 6 Student Activities Chair, **Elizabeth Johnston**, lise.johnston@ieee.org.

IEEE WordPress Hosting Migration

In an effort to increase security and performance, WordPress sites hosted on <http://sites.ieee.org> are being migrated to a more robust server.

If your sites need to be publicly accessible, then you need to opt into the migration effort [here](#). The list of sites that have already opted into migration can be viewed [here](#). All other sites will be archived after December 31st, 2018 and they will not be accessible.

One of the changes will be new web addresses for these sites. A redirect from the current site will be set up to redirect traffic to your new site once it has been

For questions, contact ewh-webmaster@ieee.org.

vTools Updates

Several improvements have recently been made to several vTools:

- New “@Event” on-site registration feature added to vTools.Events
- New auto-load option for voter list in vTools.voting
- Added Express option in vTools.eNotice for student branches and HKN chapters, plus expanded usage of eNotice to support societies
- Checkbox is now available as the FluidSurveys replacement
- Much-expanded FAQ page for OU Analytics; several improvements to OU Analytics are in the works

For more information, see the blog on the [vtools portal](#). More details are also available [here](#).

Industry Engagement Resource Guidelines

New guidelines have been created that will help VoLT members improve the way they engage with industry. To view these guidelines, please visit the [IEEE website](#) or contact industry-engage-guide@ieee.org.

Energy and Enthusiasm Wanted: Measure Your Section's Vitality

Vital organizational units (Sections, Chapters, Affinity Groups, Branches) better serve members. 2018 IEEE RVC (Region Vitality Coordinator) Elisa Barney Smith has been leading efforts to measure and report vitality across the region. The 2018 Section Vitality Survey has been sent to section leaders – please make your section more vital by responding. It gives you a chance to reflect on this year and what your section did well, and what it should work a little harder on in the future. We want to provide you with the tools to make your IEEE a better one and the understanding of where you can be a role model or help

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