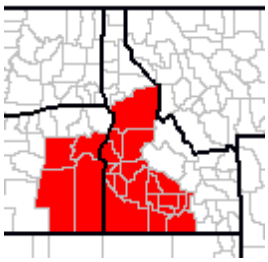
IEEE Boise Section
ieeeboise.org
Newsletter
April 2015



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Upcoming Events

PACE "Engineers Taking Political Action"

Date: 28 April 2015
Time: 17:00-18:00
Location: Idaho State Capitol Building, Lincoln Auditorium

Join other Treasure Valley technical professionals for an interesting discussion about how engineers can become more involved in their community and help solve some of its challenges by participating in politics. After the speaker's presentation, we will promptly reconvene at 10 Barrel Brewing on 830 W. Bannock for appetizers and no-host drinks. Don't forget to bring your business cards!

About the Speaker: Dan Donahoe's career began with senior project and master's degree topics related to energy conservation which included running early building modeling programs NBSLD and BLAST. Dan's first professional task at Lockheed was HVAC for space. Over time, Dan focused on the growing electronics industry. Dan has worked for Lockheed, Motorola, Ford Aerospace, Teledyne, Compaq Computer, Iomega and Exponent Failure Analysis Associates. His consulting practice is 1000 kilometers®. He has served as Associate Editor for IEEE Transactions since 1998; as 2007–2008 chair of IEEE (CPMT/SCV) Santa Clara Valley Chapter (a.k.a. SiliconValley) and on the Board of Governors for IEEE CPMT Society. The CPMT/SCV chapter was granted the international 2008 CPMT Chapter of the Year Award. Dan was the ASME nominee for 2013 Utah Engineer of the Year. Dan has a number of publications and granted patents. He holds a PhD from the University of Maryland at College Park, MBA from Santa Clara University, BS and MS from the University of Illinois at Champaign-Urbana. He is a registered professional engineer (PE) in Arizona, California and Utah and is a certified reliability engineer (CRE). Dan is a candidate for IEEE-USA Member at Large.

IEEE Virtual Career and Talent Expo

Date: 10-12 June 2015
Time:
Location:

Be a part of the first ever IEEE Virtual Career and Talent Expo hosted by Region 6 June 2015 with LIVE recruiting days June 10, 11 and 12. The online event opens June 1-9 for preparation and will be available through June 30. Registration is FREE to all IEEE members; non-members pay $125.00. This Expo is highly recommended to those who desire to plan that next career move and get ahead in life. This event provides the opportunity for your talents to be recognized and aligned to the perfect job!

Conveniently attend the Virtual Career and Talent Expo from anywhere. Join us online to connect to thousands of job opportunities, grow your professional network and access world-class resources for career development. Hear keynotes from industry experts, attend live webinars, and join in the fun for prizes and give-aways. To create an event for the brightest and biggest professional organization in the world, we knew it had to be innovative and different and so we partnered with the best in both the virtual and assessment technologies.

> "We are excited to have our members attend to learn and grow in their profession. We think we are onto something big by incorporating assessment driven data for real job matching: we are changing the way people look for jobs and the way businesses recruit, hire, onboard and develop. It's important for all our members to participate in the event as an excellent IEEE benefit" - Thomas Coughlin, Director of IEEE Region 6.

All participants are encouraged to complete a FREE online personal skills and talent assessment. Your personal results can be shared at the event to market your unique abilities as well as potentially be matched to that dream job and get referred to industry-leading companies through data-driven searches. The FREE personal skills and talent assessment measures skills, passions and interests. Participants will receive a 23-page talent report that provides 7 distinct advantages in career development and in your job search. Those advantages include: self-awareness, personal branding, 30-second commercial, resume writing, cover letter, interview skills and the potential to be matched to jobs. The assessment partner, Target Training International's (TTI), patented assessment process is validated by research and utilized by over 100,000 companies in 90 countries. They have assisted more than 22 million people in the area of personal development and self-discovery!

IEEE SusTech Conference

The third annual IEEE Conference on Technologies for Sustainability (SusTech) will be held on July 30-Aug 1, 2015 at Weber State University in Ogden, Utah. The goal of the conference is to explore the development and application of science, engineering and technology to promote sustainability in agriculture, alternative energy, transportation, smart grid, and several other areas.

For more information about this conference, visit http://sites.ieee.org/sustech/.

Section News

IEEE Boise Section Annual Banquet

Coinciding with National Engineers Week, the IEEE Boise Section annual banquet was held on the BSU campus on February 24th. The guest speaker was Dr. Forrest Bao, an assistant professor from University of Akron. Dr. Bao gave a presentation on his research work, including diagnosis and treatment of neuropsychiatric disorders using image and signal processing, and epilepsy diagnosis by short-term interictal scalp EEG. He also briefly mentioned other research areas he explored such as natural language processing, human action tracking and robotics. HP, Micron engineers, BSU and high school students attended the banquet. We would like to thank the IEEE volunteers who prepared the event.

WMED 2015: A Successful IEEE Workshop

The 13th annual **IEEE Workshop on Microelectronics and Electron Devices (WMED)** was held at Boise State University Student Union Building on March 20, 2015. This year saw 390 registered attendees at the workshop organized by the IEEE Electron Device Society Boise Chapter and led by the workshop chair, Sourabh Dhir. This successful workshop is the biggest of its kind in the area and includes international technical contributions. Eight invited speakers from Intel, IBM, Applied Materials, Micron, Georgia Tech and UC Berkeley presented on a multitude of topics covering device technology, future and current challenges in IC processing and advanced design techniques. Paper and poster presentation rounded out the workshop. High school students were also invited to attend the workshop and found great value in attending the keynote address followed by a special program giving them exposure to engineering.

The workshop was highly ranked in feedback surveys from attendees. Best paper and poster awards will be announced soon. For more information including pictures of the event, visit the WMED website at http://www.ewh.ieee.org/r6/boise/wmed2015/WMED2015.html . If you have not attended this workshop before, consider attending in 2016.

Boise Section Hosts Region 6 Northeast Area Spring Meeting

The Region 6 Northeast Area (NEA) Spring OpComm meeting was held at the Boise Grove on Saturday, March 21st. The NEA consists of the Boise section, the Eastern Idaho section, the Utah section, and the three Montana sections. The all-day meeting included officer training, overviews of IEEE membership and geographic activities at the region, area, and section levels, and discussions on how to improve section vitality and engagement with students and new members. Kathleen Kramer, the Region 6 Director-Elect, gave an overview of the IEEE in 2030 Initiative as well as Region 6 initiatives and upcoming conferences. Slides and recordings from the meeting are available here.

NEA Spring Meeting attendees (L to R): Jim Hadley (Western MT Chair), Chris Gunning (NEA Vice Chair), Sean Collison (Boise Section Chair, R6 Young Professional Chair), Dan Christenson (NEA Chair), Rae Nims (Eastern Idaho Section Chair), Peijung Tsai (Utah Section Chair), Kathleen Kramer (Region 6 Director-Elect), Jennifer Hershman (R6, NEA, and Utah Awards Chair), Nader Rafla (Boise section BSU Liaison). Not pictured: Randy Wolff (Boise section membership dev. chair)

IEEE Region 6 Northeast Area Outstanding Engineering Manager Award

During the March 2015 Northeast Area meeting, Jeffrey Bursik was recognized for his IEEE Region 6 Northeast Area Outstanding Engineering Manager Award. Dan Christenson, IEEE Region 6 Northeast Area Chair, presented the plaque. The awards luncheon, held at the Grove Hotel, was well attended by those in Mr. Bursik's organization, some of whom spoke in support of his having received this nomination and award. These attendees demonstrated the respect and admiration from his team that he has established as an effective leader. IEEE Boise OpComm is gratified to see managers valuing and developing their engineers and very pleased to have this opportunity to recognize Mr. Bursik for his uniquely positive contribution to the electrical engineering profession.

We are excited to see you at this inaugural event! Be sure to connect with us through social media to stay current on latest news and announcements. To connect and register please go to http://sites.ieee.org/r6careerexpo.

IEEE Boise Section Sponsors Boise Code Camp

IEEE was a silver sponsor for this software development technical event on March 21st at Boise State University. Boise Code Camp, now in its tenth year, consisted of a full day's worth of sessions on topics including mobile technologies, web development, Open Source, database technologies, DIY, and professional development. Over 1500 signed up for this year's code camp, including 300 for the youth STEM track.

Thomas Sterling, Father of "Beowulf Clusters", Gives High-Performance Computing Talk

On April 9th, Dr. Thomas Sterling, Professor of Informatics and Computing and Chief Scientist of the Center for Research in Extreme Scale Technologies (CREST) at Indiana University, gave a talk on the challenges and opportunities affecting high-end computing. His talk was sponsored by the Boise chapter of the IEEE Computer Society.

Dr. Sterling is well known as the father of "Beowulf Clusters", an architecture for creating high-performance computing clusters from commodity computer hardware. In his talk, "Foundations

and Future Directions for Exascale Computing", he discussed underlying assumptions which are used to design machines which are inefficient. He reviewed some alternative ways of looking at computing and their implications on computer architecture, and gave an overview of what a resulting core architecture could look like.
Dr. Sterling's slides and a recording of his talk are available via the Boise Computer Society web site at http://sites.ieee.org/boise-cs/

SWE/ASME Annual Networking Event

On Sunday, March 1, 2015 IEEE Boise Section members joined local members of the American Society of Mechanical Engineers and the Society of Women Engineers for their annual networking event. Roughly 30 people met at the new Sockeye Brewing location in the early evening and enjoyed heavy hors d'oeuvres and a no host bar before experiencing one of two tours of their facility. It was a great opportunity to catch up with friends and make new contacts in engineering.

Special Interest Group on Humanitarian Technology (SIGHT) Update

Several Special Interest Group on Humanitarian Technology (SIGHT) members have been volunteering with Global Talent Idaho, enabling highly-skilled refugees in our community to reclaim their technical careers by assisting in resume writing and interview skills. There is also an internship program which can place participants in your company for a period, with their salary funded through a state program. Find our more at: http://globaltalentidaho.org/ .
Also Kip Sikes recently returned from a visit with a private school serving students from the Fort Hall Indian Reservation in eastern Idaho. We are coordinating with the school, professionals at the Idaho National Lab, and Idaho State University to enhance the STEM education experience for these students, thereby developing a reproducible and sustainable program enabling IEEE members to participate in the education and lives of young students. If you are interested in participating, please contact Kip Sikes at kip.sikes.us@ieee.org.

Jobs!

MotivePower

MotivePower in Boise has a great opportunity for Electrical Engineers. They are looking for individuals who enjoy working in a fast-paced production environment, have a strong safety focus and who align with the company's values of Safety, Customer Focus, Continuous Improvement, Teamwork, and Leadership. This position is responsible for the design, development, testing and implementation of Electrical Engineering projects from concept to final assembly. This role includes leading teams in design of plans, schematics and wire running lists while ensuring compliance with safety regulations and requirements. To apply, go to: https://careers-wabtec.icims.com and search for jobs located in Boise, ID.

Call for Nominations

2015 IEEE Region 6 Special Achievement Awards

Region 6 has a variety of awards to recognize IEEE members, Sections, Chapters, Student Branches, Educators and Companies. Nominations are made through the Section to the Region Area Awards Chairs. All nominations are submitted through the Sections. Nominees and nominators must be active IEEE members and a member of the Section making the nomination. kmmcnair@ieee.org if you would like to submit a nomination for one of the following awards:

- Outstanding Engineer Award
- Outstanding Leadership and Professional Service Award
- Outstanding Large and Small Section Awards
- Outstanding Large and Small Student Branch Award
- Outstanding Educator Award
- Outstanding Chapter Award
- Outstanding Engineering Manager Award
- Outstanding Pre-University School Award

Refer to this IEEE awards link for more details about this and other IEEE awards, http://ieee-region6.org/awards/awards-desc/

Membership Referral

Do you know any colleagues that might be interested in IEEE membership? Check out the programs below, where they can get discounts on membership, and you can earn incentives for helping them sign up.

- The Member-Get-A-Member (MGM) program is back. Referring members earn incentives that can be used towards IEEE products, services and membership fees.
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Company Liaisons

Do you work at a company that employs engineers within our section? We invite each company to have one 'Company Liaison' to join our section's operational committee. These Liaisons provide a point of contact to send information from the Section OpComm to members working at these companies and to return information as to how the needs of their engineers can be met by the

section. Company Liaisons are included in e-mail discussions from the OpComm, and are encouraged to help advertise section events to members and non-members at their place of employment beyond the Section newsletters. They are invited along with all the section members to attend OPCOMM meetings and give us input. If you are interested in being a company liaison, please contact ieee.boise.chair@gmail.com.

Your 2015 Officers

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Secretary	Suraj Deuja	
Treasurer	Rachana Acharya	
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Vice Chair	Chris Gunning	cgunning@ieee.org

You make a difference when you join the IEEE.