IEEE Boise Section
ieeeboise.org
Newsletter
October 2015
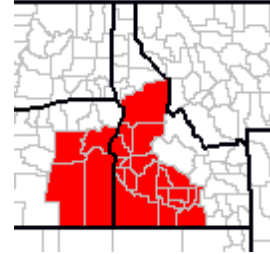
Upcoming Section Events

IEEE PES Talk: Cyber Physical Systems Security for the Power Grid
Date: October 26th, 2015
Time: Noon-1 pm
Location: BSU (room: MEC 307)

The Boise Power Engineering Chapter will host "Cyber Physical Systems Security for the Power Grid" presented by IEEE PES Distinguished Lecturer Dr. Chen-Ching Liu from Washington State University.

Combined NE/SE Area Meeting
Date: October 17th, 2015
Time: All day
Location: The Excalibur in Las Vegas, NV

IEEE Boise Section Chair Sean Collison, Vice Chair Hao Chen, NE Area Vice Chair Chris Gunning, along with seven Boise State University students and one student and faculty advisor from Northwest Nazarene University will be attending the combined NE / SE Area Region 6 Meeting at The Excalibur in Las Vegas, NV on 10/17. The meeting will help facilitate the exchange of ideas and projects that different sections have worked on over the past year. Also, with students and their faculty advisors attending there will be student officer / branch training at the meeting.

Signal Processing Society Annual Banquet
Date: Nov 4th, 2015
Time: 6:00PM-8:30PM
Location: Angell's Bar and Grill

The Boise IEEE SPS Chapter was founded in 2011. In 2013, we were certified by IEEE. The chapter is still growing. We have technical talks once or twice a month, usually on the BSU campus. For the past three years, we have also had small annual banquets. This year we are planning a slightly larger banquet on Nov 4th 6:00PM-8:30PM at Angell's Bar and Grill. We invited Dr. Barney Smith to be our speaker. Recently promoted to full professor, she will talk about her overall research career. Meanwhile, we would like to take this opportunity to introduce the SPS to a general audience as well further expand the chapter. The banquet is free for IEEE SPS members, $5 for IEEE student members, $10 for students who are not IEEE members and $15 for other audiences. We hope you will join us.

Boise Computer Society Annual Banquet

Date: November 3rd, 2015
Time: 6pm
Location: BSU Student Union Building

You are invited to join the Boise Computer Society for our annual banquet on November 3rd. Our guest speaker is Dr. Tim Andersen, the department chair of Computer Science at Boise State University. Dr. Andersen will address the role of computer science in fostering research, innovation, economic development, and job creation nationally and in Idaho.

To learn more about the banquet, our speaker and to register please visit our web page at https://meetings.vtools.ieee.org/m/36576. Registration deadline is 5pm, Oct. 26th. Bonus for early registration: Register by Oct. 20th and receive a $5 discount per person!

Volunteer proctors needed for IEEEXtreme Programming Competition

Date: October 23-24th, 2015
Time: 00:00:00 UTC (local Boise time October 23, 6pm – October 24, 6pm)
Location: BSU Campus

"IEEEXtreme" is a global challenge in which teams of IEEE Student members, supported by an IEEE Student Branch, advised and proctored by an IEEE member, compete in a 24-hour time span against each other to solve a set of programming problems.

We have four teams from BSU signed up for the IEEExtreme competition, which is great! The Boise section will pay for food, beverages, and snacks for the team and proctors.

We are looking for at least six proctors to sign up. The time blocks are 4-5 hours. The primary goal of the proctors is to make sure the students are having fun. As a proctor you also have the responsibility to make sure the teams are working on problems, that they are comfortable and getting adequate rest, and are eating, drinking and exercising during the 24 hour competition.

If you're able to work this event, thank you! Please sign up for a time slot by Monday, October 19th. The link is at http://doodle.com/poll/tgduaswrecxhua5q. If you have questions, please contact Chris Gunning, cgunning@ieee.org, for more information.

2016 Officer Elections

Your service is needed to support your profession and fill the slate of volunteer officer positions for 2016. Volunteering with the Section enables networking with engineers and technical professionals throughout the Treasure Valley. As an officer, you influence how the OpComm spends members' money to provide services to the engineering community and the community at large. Before we conduct officer elections in November, please consider nominating yourself for any of the following volunteer positions. Some of these positions require just a few hours of your time per year. If you are interested in any of these positions or in volunteering in other ways, please contact ieee.boise.chair@gmail.com.

Elected Positions

- **Chair**—set spending priorities, attend Area and Region training meetings, oversee Section and Society Chapter activities, organize and run OpComm meetings every two months
- **Vice-Chair**—assist the Chair with organizing and running meetings and keeping the Section and Chapters organized
- **Secretary**—take minutes at OpComm meetings, schedule meetings using vtools and file short reports after meetings
- **Treasurer**—write a few reimbursement checks, manage the checking account, lead the budget proposal discussion at the end of the year and file a financial report at the beginning of the year

Appointed Positions

- **Membership Development Chair**—keep the e-mail distribution list up-to-date with new members, lead efforts to upgrade eligible members to Senior Members, welcome new members to IEEE
- **PACE Chair**—organize activities of interest to professional engineers such as hosting IEEE Distinguished speakers and organizing donations to K-12 STEM programs
- **Webpage Editor**—maintain Section website including adding new content
- **Newsletter Editor**—collect articles for the newsletter, edit it and release it 3-4 times per year
- **Young Professionals**—organize activities of interest to recently graduated and younger engineers such as Discovery Center Adult Night events

Section News

IEEE Boise Section Annual BBQ / Picnic

The Annual Section BBQ on September 11, was well attended by members of the Boise Section. The BBQ was organized and catered by both the Boise State University Student Branch and the Northwest Nazarene University Student Branch.   A huge thanks go out to both branches for helping cater the event! A couple pictures from the BBQ can be seen below:

Image Tampering Research talk given at HP-Boise

In August, the Boise Computer Society and the Boise Signal Processing Society co-hosted a talk by Victoria Gunning. She presented an overview of current research in detecting tampered image regions including work currently being done at the MIT Computer Vision Lab.

Victoria completed her B.S. in Computer Science and Engineering at MIT in June and was an intern at HP this summer. She is now working on her M.Eng. degree and continuing her research work in the MIT Computer Vision Lab. She is a student member of IEEE.

The recording and slides from Victoria's talk are available on the IEEE Boise Computer Society web site: http://sites.ieee.org/boise-cs/.

EDS Banquet

On Oct. 1st, the 2nd Annual EDS Boise Chapter Banquet was held in the Skyline room of the BSU Stueckle Sky Center, with approximately 45 people in attendance. The 2015 WMED organizing committee members were recognized at the banquet with Appreciation Certificates and gifts. The banquet featured a lively talk on the Ig Nobel Prizes by Gary Dryfoos, one of the organizers of the hilarious awards, given out annually to honor researches that "first make you laugh, then make you think". In the attached picture the speaker and the 2015 WMED committee members were demonstrating one of the Ig Nobel honored inventions.

IEEE Power Engineering Society Talk – History of the LOLE Index

The Boise PE Chapter held a Technical Meeting in Boise at the Idaho Power building on October 7th. The topic "Early History on the Application of Probability Methods in the Evaluation of Generating Capacity Requirements" was presented by world expert in the area of Power System Reliability Dr. Roy Billinton from Saskatchewan University in Canada. Dr. Billinton focused his talk on the early application of probability methods in the evaluation of generating capacity adequacy and reserve requirements in an electric power system. One of the objectives was to illustrate the evolution of the loss of load expectation (LOLE) from a concept to a numerical system index 0.1 day/year that has been widely accepted as a system standard for over 50 years. The meeting was broadcasted via WebEx to IEEE members of several chapters in Region 6.

SIGHT Update

Kip Sikes represented our local SIGHT Treasure Valley (Special Interest Group on Humanitarian Technology) at the Global Humanitarian Technology Conference in Seattle held October 8-11. There were project updates from other SIGHT groups from around the world, in addition to the technical presentations in subject tracks including education, energy, agriculture, health, communication, disaster response, and others. The best news from the conference this year – conference proceedings will be made publicly available beginning in 2016. If you would like more information please contact Kip at kip.sikes.us@ieee.org.

K-12 STEM Grants

IEEE Region 6 is doing a big push on STEM activities this year. To support this, the Boise Section is offering STEM grants of $100 and higher to section members. Acceptable topics are flexible. Do you have a good idea? Something you would like to do with your kid's school, or the school district in which you live? Find a second IEEE member and let us know. We have budgeted to award several.
To apply please submit the following information:

    Member 1 Name:
    Member 1 IEEE number:
    Member 2 Name:
    Member 2 IEEE number:
    Proposed Topic Name:
    Proposed Topic Description (100-500 words).
    Proposed School or youth group:
    Budget:

Applications will be evaluated on a revolving basis for the remainder of the year. If it goes well, we'll continue it next year.
Submit your application to Elisa Barney Smith <EBarneySmith@BoiseState.edu>.

IEEE Region 6 Rising Stars Conference

As the premiere student event within IEEE Region 6, The Rising Stars conference brings together the most promising students and young professionals from within the region to network and be inspired by each other and the top tech companies from around the world. It will be taking place the first week in January, 2016 at the Excalibur in Las Vegas, Nevada. This conference is in conjunction with Storage Visions as well as the Consumer Electronics Showcase which both occur just after the conference. For more information on the conference and if you are interested in attending, visit: http://sites.ieee.org/risingstars/.

IEEE Senior Membership

Are you interested in becoming a senior member of the IEEE? Read on to find out the benefits, eligibility requirements and how to apply.

IEEE senior membership is recognition of your technical and professional excellence. As a newly elevated senior member, you will receive an engraved plaque, and a letter of commendation can be sent to your employer. You will be eligible to hold executive IEEE volunteer positions, and you will get a $25 coupon to use to join an IEEE society.

To be eligible, you must meet qualifications for IEEE membership including being an engineer, scientist, educator, technical executive or originator in any IEEE-designated field. You must have been in professional practice for at least ten years and have shown significant performance over a period of at least five years. Note that educational experience is credited towards time in professional practice (three years credit if you hold a bachelor's degree, four years for a bachelor's and master's degree, and five years for a doctorate).

Information on the application process is available on the IEEE senior member website. As part of the application process, you will need to identify three current senior members to serve as references. For help getting the process started and finding references, contact the Boise Section membership development chair, Randy Wolff <rrwolff@micron.com>.

Call for Section Treasury Auditors

The IEEE Boise Section is looking for volunteers to help audit our finances for the year. If you are interested, please contact Sean Collison <scollison@gmail.com> or Steve Schwarz <schwarz.steve@gmail.com>.

Refer a Colleague to IEEE, Get Monetary Awards Plus Great Merchandise

Have you considered referring a colleague to IEEE?

Refer a colleague to join IEEE today and they will receive US$25 off membership for 2016. They will start to enjoy the benefits of membership now, through the end of 2016 - that's 16 months for the price of 12, plus US$25 off!

As a gift from IEEE-USA, you have the option of receiving a piece of IEEE-USA merchandise when they successfully join. This is in addition to the monetary reward you earn from the traditional Member-Get-A-Member Program! For more information on the traditional Member-Get-A-Member program, visit this site. Plus, members who participate in the IEEE Member-Get-a-Member referral program earn **double rewards** during the month of October 2015, up to US$90 per year to use toward membership dues or product purchases.

The program is simple:

- Refer your colleague via the online form.
- Your referral automatically receives an email inviting them to join IEEE.
- Your referral provides your IEEE member number as they join.
- Within a few weeks after your referral joins, you will receive an email confirming your recruiting success, with a link to select your IEEE-USA merchandise item.
- You will receive a separate email for each new member you recruit.

Please help spread the word and share your IEEE experience - no one knows the benefits of IEEE membership better than you. Refer your friends and colleagues today!

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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Chair	Sean Collison	scollison@gmail.com
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PACE Chair	Kristen Hopper	kmmcnair@ieee.org
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Young Professionals/GoLD Chair	Vacant	e-mail scollison@gmail.com if interested
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Boise Life Member Group	Robert Hay	roberthay@boisestate.edu
Boise SIGHT Group	Kip Sikes	kip.sikes.us@ieee.org
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Vice President	Seth Townsend	
Secretary	Haseeb Nain	
Treasurer	Nodira Turaeva	
Region 6 Northeast Area		
Chair	Dan Christenson	Dan.Christenson@us.af.mil
Vice Chair	Chris Gunning	cgunning@ieee.org

You make a difference when you join the IEEE.