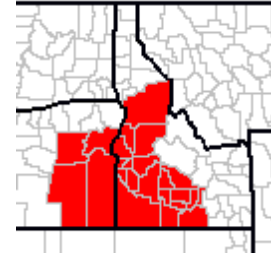




IEEE Boise Section
ieeoboise.org
Newsletter
April 2014



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Section News

IEEE Boise STEM Activity Fund

Promoting Novel Ideas to Introduce Engineering to Pre-college Students

Funding is available for STEM Activities at your K-12 school. The IEEE-Boise Section STEM Activity Fund helps section members to sponsor STEM projects that benefit K-12 students within the Section. These funds provide small amounts of money for novel ideas that introduce engineering to students. Our program is modeled on the [IEEE-USA K-12 STEM Activity Fund](#). The Section is seeking proposals from section members.

STEM Activity Fund Requirements

- Program/project must be a new and/or unique idea.
- Program/project must consist of STEM content directly benefiting K-12 students in the geographic area covered by the IEEE-Boise section.
- Program/project must take place in 2014.
- Program/project team must include an IEEE-Boise section member. The member can be a partner, mentor, or a resource member.

- Program/project team must commit to provide a report of their results to the IEEE-Boise section. This may be a presentation or demo given to IEEE members during or at the conclusion of the program/project.

Applications are currently being accepted and will be considered on a rolling case-by-case basis while funds are available. Funds awarded are typically up to \$500. Please contact Chris Gunning, cgunning@ieee.org to request the proposal submission form. Include "IEEE-Boise STEM Activity Fund Proposal" and the name of your proposal in the subject line.

IEEE Awards

IEEE has many awards available to recognize the talents and efforts of its members and people sharing our goals. The Boise section annually solicits nominations for some of these awards for our members. These Section winners are then forwarded to compete at the Area level. Winners from our NE Area then compete for awards in our Region 6. The following winners were recognized at the 2014 IEEE Annual Banquet in February.

2014 Region 6 Awards

Dr. Prof. Elisa Barney Smith—Outstanding Leadership and Professional Service

2013 NE Area Awards

Shyam Surthi—Outstanding Leadership and Professional Service

Jeb Anderson—Outstanding Educator

IEEE Senior Members

IEEE members must apply for Senior membership, be in practice for at least ten years and show significant performance over a period of at least five of those years. Senior membership is professional recognition of your peers for technical and professional excellence. The Section had the following members elevated to Senior Member in 2013.

Dean Gans
Jaydeb Goswami
Md Zahid Hossain
Arvind Kumar

Maria Mitkova
Bruce W Schober
Thy N Tran

Events

Performance Evaluation in Image Interpretation ... an Undecidable Problem

Speaker: Dr. Bart LAMIROY

Date: 30 April 2014

Location: Boise State University Micron Engineering Center MEC 201

Website: https://meetings.vtools.ieee.org/meeting_view/list_meeting/25851

A significant amount of research in Document Image Analysis, and Machine Perception in general, relies on the extraction and analysis of signal cues with the goal of interpreting them into higher level information. This talk will give a high-level overview on how this interpretation process is usually considered, and how the research communities proceed in evaluating existing approaches and methods developed for realizing these processes. Evaluation being an essential part to measuring the quality of research and assessing the progress of the state-of-the art, our work aims

at showing that classical evaluation methods are not necessarily well suited for interpretation problems, or, at least, that they introduce a strong bias, not necessarily visible at first sight, and that new ways of comparing methods and measuring performance are necessary. It also shows that the infamous Semantic Gap seems to be an inherent and unavoidable part of the general interpretation process, especially when considered within the framework of traditional evaluation.

Software Defined Storage

Speaker: Doug VOIGT

Date: 30 April 2014

Location: Boise State University Engineering Building ENGR 103

A lot of industry mindshare has recently been focused on various “software defined” architectures including software defined storage. The industry has not agreed on a clear definition of software defined storage although there seem to be two rallying points, neither of which is actually new. In this presentation we will briefly review two product examples that illustrate the camps. We will expand on those examples in a discussion of the controversy, core value and long term industry trends surrounding software defined storage and datacenters.

Boise State K-12 Summer Camps

e-Camp – Grades 8-9 (June 8-10, 2014)

Students who are currently in 8th or 9th grade can use hands-on activities and projects involving problem solving and teamwork to explore careers in engineering, and computer science while living on campus in a college dormitory. All food, housing and recreational activities are provided.

Cost - \$200 (scholarships available), \$250 after May 1. Enrollment is limited to 50. Application deadline is May 1st.

<http://coen.boisestate.edu/k-12/summer-programs/> ([flyer](#))

e-Girls - Grades 9-11 (June 13-14, 2014)

e-Girls is a free overnight program for girls currently in 9th, 10th, and 11th grade. Enrollment is limited to 50 girls. Workshops led by Society of Women Engineers professionals and college students may include: Computer Programming, Microbiology, Tie Dye Chromatography, Virtual Worlds with Alice, The Science of Anthropology, Physics of Rock Climbing, A World of Career Choices, and more!

Cost – FREE

Application deadline is May 1st.

<http://coen.boisestate.edu/k-12/summer-programs/> ([flyer](#))

IEEE SIGHT Treasure Valley 23-27 June 2014

Our local Special Interest Group on Humanitarian Technology (SIGHT) has two activities currently underway. We will be conducting a STEM summer camp for first through fifth graders at the Lillian Vallely School near the Fort Hall Reservation in eastern Idaho the week of 23-27 June. Camp activities will run each morning, finishing with lunch with the students. We are having weekly planning meetings so we can review (actually play with) each activity. You are invited to attend these meetings and participate in the summer camp for one or more days. For more information please contact Dr. Elisa Barney Smith (EBarneySmith@boisestate.edu) or Kip Sikes (kip.sikes.us@ieee.org). We are also working with a local refugee training coordinator to provide resume and job-seeking support for individuals with technical backgrounds. If you would be

interested in participating occasional workshops or supporting this effort, please contact Phil Anderson (philanderson@idahopower.com) or Kip Sikes (kip.sikes.us@ieee.org).

Membership Referral

During the period 31 March-August 15, 2014, refer a friend or colleague and they will receive 50% off their membership dues. The merchandise and member-get-a-member incentive are the same. For every referral that joins, you will get to receive an item of IEEE-USA merchandise as well as \$15 towards your next year's membership fee for every higher grade member that joins. (If you get just 6 referrals to join, you would have almost HALF of your membership dues paid for next year.) It's simple, either direct your referral to the email message that they received when you submitted their information for referral or simply direct them to the IEEE join page at:

http://www.ieee.org/membership_services/membership/join/join_USA.html

Provide them with your member number if they are asked to provide it, so you can get credit.

IEEE Region 6 Conferences Announcement

Region 6 supports two leading IEEE Conferences, the IEEE Global Humanitarian Technologies Conference, now in its fourth year; and the IEEE Conference on Technologies for Sustainability. See details below.

IEEE Conference on Technologies for Sustainability (SUSTECH)

Dates: 24-26 July 2014

Venue: Portland, Oregon

Website: <http://ieee.org/sustech>

The 2nd IEEE Conference on Technologies for Sustainability (SusTech) is being held July 24-26, 2014 in Portland, Oregon. Contributed papers and invited papers are being solicited in the following six areas:

1. Alternative Energy
2. Energy Efficiency
3. Transportation Electrification
4. Smart Grid
5. Sustainable Electronics
6. Societal Implications / Quality of Life

IEEE Global Humanitarian Technology Conference (GHTC)

Dates: 10-13 October 2014

Venue: SAN JOSE, CALIFORNIA

Website: <http://www.ieeeghtc.org>

The Global Humanitarian Technology Conference (GHTC) is the flagship IEEE conference for presenting, discussing, and developing technological solutions to global humanitarian challenges. GHTC attracts presenters and attendees who work to meet the needs of populations affected by poverty, disaster, conflict, environmental change, and other impacts resulting in their needs being unmet or underserved.

The technical focus of the Conference is complemented by an integrated understanding of broader

contexts-economics, policy, culture, environment-to create and promote sustainable holistic solutions. GHTC welcomes participation by individuals and organizations from technical and non-technical backgrounds, including engineers, scientists, academics, small-businesses, corporations, philanthropists, foundations, and government and non-government organizations. The Conference theme of 'Technology for the Benefit of Humanity' is presented in five tracks:

1. Energy: infrastructure and off-grid power, renewable, transportation, lighting, cooking & heating
2. Health: medical technology, telemedicine, mobile care, primary care
3. Disaster, connectivity, and communication: disaster warning & avoidance, disaster response, disaster management, networks, remote communication, communication technologies
4. Humanitarian challenges and opportunities: education, housing, supply chain & distribution, business development
5. Water and agriculture: clean water, sanitation, irrigation, farming practices & agricultural technologies

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 Operations Committee 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 email 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 2014 Officers

IEEE Boise Section		
Chair	Kristen Hopper	kmmcnair@ieee.org
Vice Chair	Sean Collison	scollison@gmail.com
Secretary	Hao Chen	haochen@boisestate.edu
Treasurer	Stephen Schwarz	stephen.schwarz@hp.com
PACE Chair	Chris Gunning	cgunning@ieee.org
Membership Development	Randy Wolff	r.r.wolff@ieee.org
Webpage Editor	Ross Butler	rossbutler@ieee.org
Young Professionals/GoLD Chair	Sourabh Dhir	sourabh.dhir@gmail.com
Newsletter Editor	Adrian Sitterle	adrian.sitterle@gmail.com
Boise EDS Chapter Chair	Tony Liu	zengtao.liu@gmail.com
Boise PE&IA Chapter Chair	Said Ahmed-Zaid	sahmedzaid@boisestate.edu
Boise Computer Society Chapter Chair	Visvanathan Shekar	visvanathan.shekar@hp.com
Boise SPS Chapter Chair	Jun Guo	junguo@u.boisestate.edu
Boise SSCS Chapter Chair	Vishal Saxena	vishalsaxena@boisestate.edu
Student Branch at Boise State University		
President	Tyler Nichol	ieee.bsu.officers@gmail.com
Vice President	Brian Dambi	

Secretary	Janos Cserna	
Treasurer	Ali Ibrahim	
Region 6 Northeast Area Chair	Dan Christenson	Dan.Christenson@us.af.mil



You make a difference when you join the IEEE.