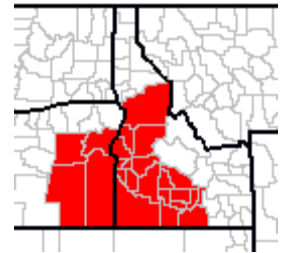




IEEE Boise Section Newsletter January 2009



Upcoming Events:

Monday, February 2nd – IEEE Computer Society Technical Session

Date/Time: February 2nd, 7:00 pm-8:00pm

Location: Boise State University Engineering Class Room MEC106.

Speaker: Dr. Edison Oliveira de Jesus, from the Universidade Federal de Itajubá in Itajubá Brazil.

Topic: Intelligent Vehicle: Visual Control

Cost: Free!

Tuesday, February 17th – Boise Section Banquet

Date/Time: February 17th, 7:00pm-9:00pm

Location: The Jordan Ball Room, Boise State Student Union
1910 University Drive, Boise, ID

Speaker: Dr. John Gardner, Associate VP for Energy Research, Policy and Campus Sustainability, Boise State University

Topic: Energy Options for Idaho

Cost: \$20 IEEE members + guests, \$25 non-members, \$5 students

RSVP: http://www.surveymonkey.com/s.aspx?sm=Ayr2rBS0ZSkHIzC_2fKYgUHQ_3d_3d
(or IEEE Boise Section Website <http://www.ewh.ieee.org/r6/boise>)

Friday, April 3rd – 2009 IEEE Workshop on Microelectronics and Electron Devices (WMED-2009)

Date/Time: April 3rd, 8:00am-6:00pm

Location: Boise Centre on The Grove, The Glens Conference Room, Boise, ID

URL: <http://www.ewh.ieee.org/r6/boise/wmed2009/WMED2009.html>

Additional Event Details:

IEEE Boise Computer Society Chapter Technical Session on Intelligent Vehicle: Visual Control

On February 2nd, Dr. Oliveira presents an overview of some techniques and methods used for visual control in autonomous ground vehicles. The main objective is to present methods which could control a vehicle without human interference. The process is designed to permit the vehicle to decide its target while avoiding damage to others or itself. These ideas could be used in a project developed by automotive companies or in university research groups.

IEEE Boise Section Annual Banquet

On February 17th, the Boise Section IEEE (Institute of Electrical and Electronics Engineers) will again be hosting the Engineering Week Banquet. The banquet will be fully catered, and offer a diverse menu for your dining pleasure.

RSVP link http://www.surveymonkey.com/s.aspx?sm=Ayr2rBS0ZSkHIzC_2fKYgUHQ_3d_3d

Topic: Energy Options for Idaho

As the winds of change sweep Washington, is Idaho immune? Alternative energy, particularly wind energy, has been an economic opportunity for Washington, Oregon and Colorado. Travelers on I 84 see the daily shipment of wind turbine parts, manufactured in facilities in the Midwest on their way to wind farms in Oregon. In this talk, we'll look at Idaho's past and future, particularly in terms of electrical generation.

About the Speaker:

Dr. John F. Gardner joined the faculty at Boise State in the summer of 2000, after 13 years of teaching at Penn State. He received his bachelor's degree in Mechanical Engineering from Cleveland State University in 1981 and his M.S. and Ph.D. degrees from Ohio State in 1983 and 1987, respectively. He taught a short course in mechatronics at the University of Cairo, Egypt and worked for two years on the staff at the University of Delaware.

At Boise State he teaches courses and conducts research in dynamics, mechatronics, and robotics. He is currently working on a new textbook on computer simulation techniques and research projects dealing with rapid response robotic telescopes and biomimetic robotic propulsion. (Read the story about Dr. Gardner's study of dolphin propulsion.)

2009 IEEE Workshop on Microelectronics and Electron Devices (WMED-2009)**WORKSHOP HIGHLIGHTS**

- Awards for overall Best Paper and Best Poster in the workshop.
- Limited number of Student Travel Awards for Best Student Papers.
- Confirmed Invited Speakers:
 - Dr. Vijay Kapur, Founder and CEO, International Solar Electric Technology, Inc.
 - Dr. Jeffrey Welsch, Director, SRC Nanoelectronics Research Initiative
 - Dr. Daniel Edelstein, IBM Fellow
 - Professor Mark Lundstrom, Purdue University
 - Professor Veena Misra, North Carolina State University

WMED-2009 WORKSHOP DESCRIPTION

The Seventh Annual Workshop on Microelectronics and Electron Devices will provide a forum for reviewing and discussing all aspects of microelectronics including processing, electrical characterization, design, and new device technologies.

This workshop will consist of invited talks, contributed papers, tutorials, as well as a poster session throughout the afternoon. Faculty, students, and researchers in industry are encouraged to contribute presentations on either completed research or "work-in-progress" research.

IMPORTANT WORKSHOP DATES

January 26, 2009-Manuscript Submission Deadline
February 13, 2009-Acceptance Notification
February 20, 2009-Final Manuscript Submission
March 16, 2009-Deadline for Advance Registration
March 20, 2009-Presentation Submission Deadline
April 03, 2009-Workshop

PAST INVITED SPEAKERS

Hans Stork, Applied Materials, Al Fazio, Intel Corporation, Steve Hillenius, VP, Semiconductor Research Corporation, Ilesanmi Adesida, University of Illinois, Urbana-Champaign, Jamal Deen, McMaster University, Juin J. Liou, University of Central Florida, Prashant Majhi, SEMATECH/Intel, Nety Krishna, Applied Materials, Gurtej Sandhu, Director, Advanced Technology R&D, Micron Technology, Ken MacWilliams, VP & GM Maydan Tech Center, Applied Materials, Vivek Subramanian, University of California, Berkeley, Krishna Parat, Intel Corporation, and many more.

For questions and/or comments contact Steve Groothuis skgroothuis@ieee.org.

Chapter & Branch News:**IEEE Boise Section Announces New Officers for 2009**

Chairperson, Mark Bussert: Mark Bussert is the new Chair of IEEE Boise Section. He is employed at Idaho Power, as a communications engineer with an emphasis on system design and support of critical communication networks. He obtained his B.S. from Boise State University in 2004 and is the former Boise Section PACE chair.

Vice Chairperson, Open: Interested candidates contact Mark Bussert, mbussert@ieee.org.

Treasurer, Randy Wolff: Randy Wolff is continuing in the Treasurer position. He has previously been the GOLD affinity group chair and Chair of the Montana State University Student Section. He currently leads a Signal Integrity component modeling team within the Signal Integrity R&D group at Micron Technology. He graduated cum laude from Montana State University with a BSEE in 1999.

Secretary, Chris Gunning: Chris Gunning is the new Secretary of the IEEE Boise Section. He is also the new Chairperson of the IEEE Boise Computer Society. Chris joined IEEE in 1986. He has a B.S. in Computer Science and Engineering from MIT and an M.S. in Electrical Engineering from Stanford University. He is currently employed at Hewlett Packard as a firmware architect helping to develop exciting new printer and MFP products.

Membership Chair, Dr. Nadar Rafla: Dr. Rafla is the new Membership Chair of the IEEE Boise Section. He is an associate professor and associate chair in the College of Engineering at Boise State University. His expertise is in systems on a programmable chip and embedded and microprocessor-based system design; and implementation and hardware architectures of digital image and signal processing algorithms applied to recognition, identification, inspection, automation and control. He is a senior member of the IEEE and the arrangements chair for the IEEE Boise Computer Society.

GOLD Activities Chair, Open: Interested candidates contact Mark Bussert, mbussert@ieee.org.

PACE Chair, Dorian Kiri: Dorian is the new PACE (Professional Activities Committees for Engineers) Chair. He holds a B.S. in Electrical Engineering from Boise State University. His area of expertise is in Electrical and Physical Failure Analysis of Semiconductor Devices. His current position is Shift Lead Engineer in Fab 1 Yield Enhancement at Micron Technology, Inc.

Newsletter, Joe Rekiere: Joe is the new newsletter editor. He is the past Chair of the IEEE Boise Computer Society. He works for Hewlett Packard as a software engineer developing MFP products. He has a B.S. in Electrical Engineering and a Master of Computer Science from Arizona State University. He also holds a CSDP.

Web Page, Kevin Turner: Kevin Turner is the new Webmaster of the IEEE Boise Section. He has a B.S. in Electrical Engineering from Boise State University. He is currently employed at Hewlett Packard as a firmware qualification engineer helping to develop exciting new printer and MFP products.

Elisa Barney Smith from Boise Appointed to Regional IEEE Position

By Dr. Elisa H. Barney Smith

The IEEE is divided both by technical activity and by regional/geographic locations. Most IEEE members are first aware of the technical societies they can join. Many Boise members are members of the Electron Device Society or the Computer Society or the Power Applications Society (or several others). The technical and geographic activities merge through the society chapters and in Boise we have society chapters for those three societies that hold local events. Everyone receiving this newsletter is a member (or friend) of the Boise Section of IEEE. That is part of the second structure within IEEE, the geographic structure. There are 10 Regions in IEEE. The USA is divided into regions 1-6 and for the 'I' in IEEE, the rest of the world gets 7-10 (7 is Canada, 8 is Europe, Middle East and Africa, 9 is Latin America, and 10 is Asia and the Pacific). Boise is in Region 6 which covers 12 states in the western US, including Hawaii and Alaska. The region is so large that it is divided into 'areas'. Boise and 5 other sections (Eastern Idaho, 3 in Montana and one in Utah) comprise the Northeast area of Region 6. Most of you probably didn't realize you lived in the northeast :-). In December I received a request to take on the position of chair of the Northeast Area of Region 6.

This is the first time in many years that a Boise member has been chair of the area. My main duties are to organize two meetings a year for all the section officers in the NE-R6 area. I also need to attend Region 6 meetings twice a year and get to participate in lots of administrative email discussions :-). The area meetings provide officer training and an opportunity for the leadership of the sections to meet each other and exchange information, with the goal of making their sections stronger and more beneficial to their members - YOU. Often student officer training is held at the fall meeting for the student branches. The spring meeting usually contains a student paper contest (we need volunteer judges!!) and a robotics competition called Micro Mouse. The spring meeting in 2009 will be held in Boise probably in April (date still TBD). Just as all of you are welcome to come to section OPCOM meetings, you are also invited to come to the area meeting. We'd love to have more people involved, either sharing ideas, or taking on small tasks. Just like we always say for the section - what do you want for the portion of your membership fee that goes to the section, area and region? Let us know. IEEE is more than the SPECTRUM magazine and the transactions you subscribe to as individuals. Take advantage of it. We look forward to serving you and hearing from you.

Dr. Elisa H. Barney Smith can be reached at EBarneySmith@boisestate.edu or visit her web page <http://coen.boisestate.edu/EBarneySmith>

News & Notes:**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. The main responsibility of these people is to 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 OPCOM, 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 OPCOM meetings and give us input. If you are interested in being a company liaison, please contact Mark Busset.

Do We Have Your Correct E-mail?

If you haven't been receiving the newsletter or event notices electronically, please notify both the IEEE (address-changes@ieee.org) or <http://services1.ieee.org/membersvc/coa/intro.htm> and the Boise Section Chair (mbussert@ieee.org) so we can add you to our electronic mailing list (we get address corrections only once a month from the IEEE). Plans often come about for events between newsletters. To assure that you get timely information about IEEE Boise events, please make sure we have your correct email address in our address database.

E-mail only Newsletter

Help the IEEE Boise Section save costs on postage, paper and printing! If you would like to receive the newsletter through email only, please send an email including your name, mailing address, and IEEE membership number (if you know it) to jrekiere@ieee.org .

How can the Boise Section better meet your needs?

The Boise Section officers would like to make the best use of our dues to meet the needs of the engineers in the Boise section. The section currently provides for or partly subsidizes speakers, banquets and picnics through the use of your annual dues. If you have ideas on how to best meet the needs of the sections engineers, contact one of the officers for our section.

Volunteering – IEEE Members Get Involved

Getting Started:

- Contact your local IEEE section and chapters
- Learn about the IEEE Educational Activities Board
- Get Involved with the IEEE Standards Association
- Participate in a technical society or technical council
- Get involved with the IEEE Technical Activities Board
- Shape and promote USA technology policy and professional activities through IEEE-USA
- Organize an IEEE Conference

See *How to Volunteer* at www.ieee.org/web/volunteers/home/index.html

Your 2009 Officers:**IEEE Boise Section:**

Chair: Mark Bussert – mbussert@ieee.org
 Vice-Chair: Open
 Secretary: Chris Gunning - cgunning@ieee.org
 Treasurer: Rand Wolff - rrwolff@micron.com
 Membership: Dr. Nader Rafla – nrafla@boisestate.edu
 Speakers Chair: Open
 GOLD Chair: Randy Wolff - rrwolff@micron.com
 PACE: Dorian Kiri – dkiri@micron.com
 Web Page: Kevin Turner – kevin@kmtturner.com
 Newsletter: Joe Rekiere - jrekiere@ieee.org

Boise EDS Chapter:

Chair: Steve Groothuis - skgroothuis@ieee.org

Boise PE&IA Chapter:

Acting Chair: Jared Ellsworth
 -JaredEllsworth@idahopower.com

Boise Computer Society Chapter:

Chair: Chris Gunning – cgunning@ieee.org

Student Branch at Boise State University:

Chair: Cameron Stewart - ieee@boisestate.edu

<http://www.ewh.ieee.org/r6/boise>



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