



# IEEE BUENAVENTURA SECTION

## April 2013 Newsletter

Wed. 10 Apr.	Section	<b>Ventura County Science Fair Judging</b> <i>Momin Quddus</i> Contact Momin to be part of the team Ventura County Fairgrounds
Wed. 10 Apr.	Computer	<b>Embedded Hacking – the World of Tiny Things</b> <i>Stuart McClure, Cylance Inc.</i> 6:30pm networking, refreshments, 7pm presentation Richter Lecture Hall, Ahmanson Science Center California Lutheran University
Mon. 22 Apr.	ComSoc	<b>** Distinguished Lecture Series **</b> <b>Distributed Mobility for the Future Mobile Internet</b> <i>Dr. Anthony Chan, Hauwei Technologies</i> 6:30-8:30pm Skyworks, 2440 W. Hillcrest Dr., Thousand Oaks <a href="#">Register at IEEE Meetings</a>
Thu. 25 Apr.	AESS LMAG ED/CAS MTTS	<b>Bird Design and Aircraft Evolution</b> <i>Dr. Geoffrey Spedding, USC</i> 6:30pm refreshments, 7pm talk Vitesse Semiconductor, Camarillo, CA
Mon. 27 Apr.	OpCom	<b>Operating Committee Meeting</b> 6:30 pm China Buffet, Thousand Oaks
Apr.	EMBS PES RAS	No local events planned this month. Check website for updates. Be sure to see the advertised positions on the web too.

<http://ieee-bv.org/>

## SECTION SPONSORS



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The IEEE

## Membership News

### *New Members*

Please join us in welcoming our new Section members:

- Jeremy G. Seiden
- Ronald Williams
- Bianca Esquivel
- Jennie Lopez



*New Members:* please be sure to update and share your information at the IEEE Member Portal and set up your IEEE email alias. Please also introduce yourselves at meetings; networking starts here in the IEEE.

--- Bridge Carney, Section Chair

### *Senior Member Elevation Clinic*

Planning for the 2013 Senior Elevation Event for the section has begun with third Saturday in June as a tentative planning date.

Last year's event resulted in 21 members rising to [IEEE Senior Member Grade](#).



We have nearly 300 members in the section who may qualify. You will be receiving an email announcement if you are a qualifying member of the section.

For more information or to help prepare for the event, contact me.

Christian Ziegler  
Membership Development Chair  
[Christian.Ziegler@ieee-BV.org](mailto:Christian.Ziegler@ieee-BV.org)

### *IEEE-USA 2013 Professional Achievement Award*

Please join us in congratulating Jerry Knotts for his citation by IEEE-USA for Professional Achievement, "For outstanding, tireless mentoring and guidance of aspiring entrepreneurs to create new enterprises, and for building and supporting organizations that channel resources to nurture them." Jerry will receive the award at the IEEE-USA meeting in August 2013.

## Job Opportunities



### **TEST ENGINEER**

Alfred Mann Foundation ([www.aemf.org](http://www.aemf.org)) in Valencia is searching for an EE with both hardware and software. 5+ years of system test related experience with advanced knowledge of medical devices.

Contact

**Pat Jacobs**

805-579-0630

[pat.jacobs@advancedpersonnelprofiles.com](mailto:pat.jacobs@advancedpersonnelprofiles.com)

### **DIRECTOR – DESIGN ASSURANCE**

Premier Ventura County company – must have medical device experience.

Contact

Pat Jacobs

805-579-0630

[pat.jacobs@advancedpersonnelprofiles.com](mailto:pat.jacobs@advancedpersonnelprofiles.com)

### **MECHANICAL AND ELECTRICAL ENGINEERS**

Pasadena medical device company searching for EE with 3-5 yrs experience. Need analog and digital circuit design experience. Able to write basic code for device control and Labview. Mechanical engineer to develop tooling and devices. Experience with inductive coupling desired.

Contact

**Pat Jacobs**

805-579-0630

[pat.jacobs@advancedpersonnelprofiles.com](mailto:pat.jacobs@advancedpersonnelprofiles.com)

-- Doug Askegard, R6 Awards Chair

## Section News

### *2013 Fall Event Topics*

Fellow BV Members:

As you know, for the past two years we have had the Energy Efficiency Symposium at the Westlake Village Inn. This has a really prestigious and excellent venue for us. It included prominent and local speakers as well as local technology companies, involved in various ways, around energy efficiency solutions.

We certainly know how the process to putting on the event with our core event team. For 2013 we are open to your suggestions about any other technology sectors around which we can focus for this year's Fall Event. We would like ideas that are both interesting and broad enough for all our IEEE members to be interested to see as well as non members who would be interested to attend.

Please send your ideas to me at [bcarney@ieee-bv.org](mailto:bcarney@ieee-bv.org) or call me at 805-558-5097.

Think about it and let me know!

-- Bridge  
Chair, IEEE-Buenaventura 2013

### *2013 Ventura County Science Fair*



Judges:

As part of the IEEE's STEM and Pre-University Education outreach, IEEE Buenaventura Section is once again judging Science Fair and awarding special prizes to projects that fall within the IEEE's areas of interest.

Please see the [Science Fair Announcement online](#) for details or contact [Momin Quddus](#), Science Fair Program Coordinator, for more information about volunteering and how to help.

-- Momin Quddus

## SR. ELECTRICAL ENGINEER

**Congratulation to Second Sight ([www.2-sight.com](http://www.2-sight.com)) in Sylmar who were awarded FDA approval 14 Feb 2013! SSMP is looking for a very experienced EE with RF and communication protocol experience. Medical device preferred.**

Contact  
**Pat Jacobs**

805-579-0630

[pat.jacobs@advancedpersonnelprofiles.com](mailto:pat.jacobs@advancedpersonnelprofiles.com)

## ELECTRICAL ENGINEER

5-10 years low power, mixed-signal including MCU based signal acquisition systems, ASIC and battery life experience. PCB layout a plus. BSEE, MSEE preferred for Pasadena location.

Contact  
**Pat Jacobs**

805-579-0630

[pat.jacobs@advancedpersonnelprofiles.com](mailto:pat.jacobs@advancedpersonnelprofiles.com)



## JOB SEEKERS CORNER

The IEEE Buenaventura Section (<http://www.ieee-bv.org/>) is proud to announce a new benefit to members. If you are a job-seeker, in-transition or just searching for a new opportunity, we are happy to help you advertise your skills.



Simply send two lines, including your contact information, to Pat Jacobs at [pat.jacobs@advancedpersonnelprofiles.com](mailto:pat.jacobs@advancedpersonnelprofiles.com). Pat will publish your information in our monthly newsletter at no cost to the job seeker.

If you prefer, you can advertise anonymously and simply provide your email address and the main points that detail your experience. Employers will contact you directly at the email address provided.

The newsletter is published monthly so please contact Pat by the 20th of the month.

The following IEEE members are searching for new opportunities. Please contact them directly:

**MSEE with 7 years of full-time experience** looking for a role focused on ASIC / Analog-Mixed-signal development. Working location is flexible. Contact: [sz98001@hotmail.com](mailto:sz98001@hotmail.com)

**Bioengineer** with experience in research, development, & management. Contact: [beejal@blackboxlabs.us](mailto:beejal@blackboxlabs.us)

**Contract CIO**, Info strategies, BPMS SME, Info/Business Agility, Enterprise Architecture, Business Architecture, Info Program Manager. Call 805-493-4186.

**Embedded Software/Firmware developer.**

Implemented successful products using Assembly Language, C, C++, Shell scripts, Java, XHTML, JavaScript & Perl. Contact [James.L.Keeler@gmail.com](mailto:James.L.Keeler@gmail.com)

**B.S. in physics**, strong math skills looking for a role in any scientific or technological field that utilizes mathematical and problem solving skills. Working location is flexible. Contact: (206)375-2503 [ggiesber@clunet.edu](mailto:ggiesber@clunet.edu)

## Looking for Academic, Scientific, or Engineering Talent?

Advertise with the IEEE Buenaventura Section

Placement ads are \$25/month and appear in both newsletter and online.

Sponsorships available for website and Section.

Contact [newsletter@ieee-bv.org](mailto:newsletter@ieee-bv.org) or see our [Ad Placement information](#) to advertise or sponsor the Section.



# FIRST Robotics

Thanks to Buenaventura Section's and other's support, the FIRST Robotics team 3863 did well in this year's competition.

Many of you are familiar with our activities, but for those who might not be, Newbury Park again hosted the Conejo Valley schools participation in the "FIRST" (For Inspiration and Recognition of Science and Technology) robotics competition again this year. This is the largest national robotics competitions of its kind for the High School level. Although most of the team came from Newbury Park H.S. it was open to Thousand Oaks, Westlake, and LaReina High Schools.



For this competition, students are given a short 6 weeks to design, build, program, and test a 140lb robot to play a game in cooperation with 3 other robots on a team against another team of 3 robots. The game, the rules and the robot specifications are different every year.

The weekend of March 23 & 24, the team traveled to the Long Beach Sports Arena for three days of competition at

the Los Angeles Regional match. They certainly had their share of technical issues, contacts loosened in transit, incompatible software and robot damage in competition, which provided wonderful learning opportunities. Overall the team finished with five wins and three losses, placing 22nd out of 65 teams. Considering that many of the teams come from technical high schools and are extremely well funded and supported, I was very satisfied with our position.

We proudly displayed the IEEE logo on the robot and our uniforms to the other 1000 or so participants. We will continue to do so in any presentations or articles regarding the team. The recognition by a professional society does mean a lot to the kids.

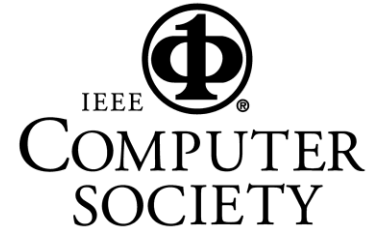
Again thanks for your support,

Chuck Seabury  
Mentor FIRST team 3863  
Vice Chair Buenaventura MTTs



# Upcoming Buenaventura Section and Chapter Events

**Computer Society**  
<http://ieee-bv-cs.org/>



## Embedded Hacking: The World of Tiny Things

On Wednesday, 10 April 2013, Stuart McClure of Cylance, Inc. will discuss the world of embedded systems and how the bad guys will take advantage of this world in the future.

### About the Speaker



Stuart McClure, is the CEO/President of Cylance, Inc., an elite global security services and products company solving the world's most difficult security problems for the most critical companies around the globe. Prior to Cylance, Stuart was EVP, Worldwide CTO and General Manager of the Management Business Unit for McAfee/Intel where he was responsible for a nearly \$3B consumer and corporate security products business. During his tenure at McAfee Stuart was responsible for the office of the CTO as well as an elite team of security researchers called TRACE that discovered new vulnerabilities and emerging threats focused on embedded and critical infrastructure devices. Before McAfee, Stuart helped run security at the \$34B healthcare company in the U.S., Kaiser Permanente. In 1999, Stuart was also the original founder of Foundstone, Inc., a global consulting and products company, which was acquired by McAfee in 2004.

Widely recognized for his extensive and in-depth knowledge of security, Stuart is one of the industry's leading authorities in information security today. His first book, *Hacking Exposed: Network Security Secrets and Solutions*, is the best-selling computer security book in history. It has been translated into over 30 languages and is ranked the #4 computer book ever sold.

A well-published and acclaimed security visionary, Stuart McClure has over 25 years of profound technical, operational, financial and executive experience. He holds a Bachelor's from the University of Colorado-Boulder and holds numerous certifications including CNE and CCSE.

**This meeting is free and open to the public.**

#### Where/When/Details:

Richter Hall, California Lutheran U., 60 W. Olsen Road, Thousand Oaks

6:30pm pizza, networking; 7pm presentation and discussion

See <http://www.ieee-bv-cs.org/meetings/> for meeting location, time, and parking instructions.

#### Registration:

[https://meetings.vtools.ieee.org/meeting\\_view/list\\_meeting/17243](https://meetings.vtools.ieee.org/meeting_view/list_meeting/17243)

*Distinguished Lecturer Series*  
**Distributed Mobility for Future Mobile Internet**  
**Dr. Anthony Chan, Huawei Technologies**



The cellular networks, which are currently serving 6 billion cellular phones and mobile devices globally, have employed centralized control with different network functions arranged in a hierarchy. The Internet; however, has employed distributed control functions in a more flattened, i.e., less hierarchical structure. Despite the large amount of standards work on Internet mobility in the Internet Engineering Task Force (IETF) focused primarily with centralized mobility, the deployment to the mobile Internet is still slow, and a fundamental change to distributed mobility is needed. Mobility management with centralized mobility anchoring in existing hierarchical mobile networks is quite prone to suboptimal routing and issues related to scalability. Centralized functions present a single point of failure, and inevitably introduce longer delays and higher signaling loads for network operations related to mobility management. To make matters worse, there are numerous variants of Mobile IP in addition to other protocols standardized outside the IETF, making it much more difficult to create economical and interoperable solutions. The existing mobility management standards in IETF, the issues of mobility management for the future mobile Internet, the trend of the mobile Internet and the proposed distributed mobility at IETF are explained.

*About the Speaker*



H. Anthony Chan received his PhD in physics at University of Maryland, College Park in 1982 and then continued post-doctorate research there in basic science. After joining the former AT&T Bell Labs in 1986, his work moved to industry-oriented research in areas of interconnection, electronic packaging, reliability, and assembly in manufacturing, and then moved again to network management, network architecture and standards for both wireless and wire line networks. He was the AT&T delegate in several standards work groups under 3GPP. He then moved to academia as professor at University of Cape Town to lead the curriculum and research in telecommunications, making transformations in such program to contribute to the needs for an African country to catch up with the Digital Divide. In 2007, he returned to industry as a Researcher when he joined Huawei Technologies. His current research is in emerging broadband wireless network technologies. He contributed to mobility standards in both IETF and IEEE and is the editor of an IETF DMM Working Group draft on the requirements on distributed mobility management.

Dr. Chan is a Fellow of IEEE, chair of IEEE Standard 802.21c Task Group on Single Radio Handover Optimization, Vice-chair of IEEE standard 802.21 Working Group on Media Independent Handover. He is currently a Distinguished Lecturer/Speaker of IEEE Communication Society and a Distinguished Lecturer/Speaker of IEEE Reliability Society.

**Date and Time: 6:30-8:30pm Monday, April 22nd, 2013**

**Location: Skyworks, 2440 West Hillcrest Drive, Newbury Park, CA 91320 (not the main building, please use link below to green arrow that pinpoints building)**

**<http://maps.google.com/maps?q=34.187542,-118.930994&num=1&t=h&vpsrc=0&ie=UTF8&z=18&iwloc=A>**

**Agenda: 6:30 p.m. Dinner, & Networking, 7:00 p.m. Meeting & Presentation**

**Registration: [https://meetings.vtools.ieee.org/meeting\\_view/list\\_meeting/17840](https://meetings.vtools.ieee.org/meeting_view/list_meeting/17840)**

**IEEE BUENAVENTURA SECTION**  
Aerospace & Electronics Systems Chapter,  
Electron Devices/Circuits & Systems Chapter,  
Microwave Theory and Techniques Chapter &  
Life Members Affinity Group



## **Bird Design and Aircraft Evolution**

**Date:** Thursday, April 25, 2013

**Time:** 6:30 pm Refreshments and Networking,  
7:00 pm Talk

**Venue:** Vitesse Semiconductor Corp.  
741 Calle Plano, Camarillo, CA 93012

Alternative flying machines (in the sense that they differ from our usual designs) can be invented, or studied. In all cases, it is reasonable to wonder whether a particular design is optimal, or perhaps what it is optimal for. Definitions of optimality quickly become complex: “minimum drag:lift ratio for n passengers that allows our company to outcompete our rival(s)” or “something that can be grown fast, still works when 50% of the aft surfaces are missing, and that fits in a nest”. We will consider two examples of flying devices, one evolved and one invented, and we will look for parallels that exist between them, or perhaps ought to.

Please RSVP to Sunil Pai ([paisunils@ieee.org](mailto:paisunils@ieee.org)) if you wish to attend this meeting.

**Speaker: Geoffrey Spedding, USC**  
(Department of Aerospace and Mechanical Engineering)

Geoffrey Spedding was educated at the University of Bristol, England, where he received both his B.Sc. and his Ph.D. in Zoology. His Ph.D. was on the Aerodynamics of Animal Flight and since then he has enjoyed stepping across, or through, normal boundaries between disciplines. Following his Ph.D., in 1981, he came to work at USC where he worked on mechanical models of insect wings. His work has included the development of novel digital image processing techniques, optimal interpolation methods for scattered data, and continuous wavelet functions for real data. He now works on two main topics: the first is Geophysical Fluid Dynamics -- the study of ocean and atmospheric circulations on earth and other planets. The second is the aerodynamics of small scale flying machines, which include birds and bats. He has received a Northrop Grumman Teaching Award, and is a Distinguished Fellow of the Center for Excellence in Teaching. In 2010 he was elected a Fellow of the American Physical Society. He is currently Chair of the AME Department at USC.

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## Neighboring Section, Professional Society, and Regional Events



Society of  
Women Engineers

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ARE YOU MAKING THE MOST OF YOUR CURRENT ROLE? DO YOU HAVE A LONG LIST OF PERSONAL AND CAREER MOVES THAT YOU HOPE TO MAKE "SOMEDAY?" AT EVERY LEVEL WE WANT FULFILLING CAREERS: WORK THAT OFFERS CHALLENGE, THE INTRINSIC AND EXTRINSIC REWARDS, AND A LIFESTYLE THAT WE HAVE ALWAYS IMAGINED. THIS EXCITING WEBINAR SERIES WILL GIVE YOU THE TOOLS TO EXCEL WHERE YOU ARE NOW, CLARIFY YOUR VISION FOR THE FUTURE AND BEGIN THE PROCESS OF MAKING THAT VISION REAL.

YOU WILL LEARN:

- THE IMPORTANCE OF IMAGE AND EXPOSURE
- HOW TO ASSESS AND REFINE YOUR ORGANIZATIONAL IMAGE
- TIPS FOR MAKING AUTHENTIC CONNECTIONS

**LUNCH ♦ WEBINAR ♦ SMALL GROUP DISCUSSION**

**FRIDAY APRIL 19, 2013**

**NOON TO 1:30 PM**

SKYWORKS (SIGN IN AT LOBBY FOR ESCORT TO CONFERENCE ROOM)  
2440 W. HILLCREST DRIVE, NEWBURY PARK 91320

FEE:           \$10 FOR MEMBERS OF ENGINEERING SOCIETIES  
               \$10 FOR SKYWORKS EMPLOYEES  
               \$15 FOR NON MEMBERS

PLEASE RSVP BY MONDAY APRIL 15 SO TO ENSURE EVERYONE GETS LUNCH  
LYNN AT [TREASURER@SWE-SBV.ORG](mailto:TREASURER@SWE-SBV.ORG)  
[805-492-9499](tel:805-492-9499)  
[WWW.SWE-SBV.ORG](http://WWW.SWE-SBV.ORG)

**ALL IEEE FOOTHILL SECTION STUDENTS FORUM**  
**A DAY OF EXPLORATION THE JAMES WEBB SPACE TELESCOPE (JWST)**  
**SATURDAY, APRIL 20, 2013**

AT CALIFORNIA POLYTECHNIC UNIVERSITY POMONA , Bronco Student Center

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AND ALL OUR IEEE FOOTHILL SECTION STUDENT CHAPTERS:

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DEVRY UNIVERSITY POMONA

HARVEY MUDD COLLEGE

UNIVERSITY OF CALIFORNIA RIVERSIDE

CALIFORNIA POLYTECHNIC UNIVERSITY POMONA

**FEATURING PRESENTATIONS BY: Dr Rolf Danner and Dr Jon Arenberg, both with the Northrup Grumman Prime Contractor team for the JWST**

Dr. Rolf Danner and Dr. John Arenberg, astronomers and senior scientists at Northrop Grumman Aerospace Systems, will layout how NASA's James Webb Space Telescope will reach beyond the accomplishments of the Hubble Space Telescope. Come and hear how the science goals of JWST have led to an observatory design never before launched into space. Understand how all elements of the revolutionary architecture will allow astronomers to peer back further into the beginning of the universe than ever. See an in depth overview of the latest technical progress and a preview of what is left to be done before launch in 2018.

Identified as a top priority for astronomy and astrophysics by the National Research Council, the Webb Telescope is a key program for NASA and the scientific community and is central to the nation's ground- and space-based astrophysics program.

The Webb Telescope will use its superb angular resolution and near-infrared instruments to discover and study planetary systems similar to our own, analyze the molecular composition of extrasolar planets' atmospheres, and directly image Jupiter-size planets orbiting nearby stars. It will peer into the past to a time when new stars and developing galaxies were first beginning to form, measuring and capturing images and spectra of galaxies that formed billions of years ago. By extending our knowledge of the cosmos, the Webb Telescope will play an important role in our quest to answer the compelling questions "How did we get here?" and "Are we alone?"

This meeting is open, no charge, to ALL IEEE Student Members and ALL IEEE Members.

**WHEN:** 9am-3pm, Saturday 20 April 2013

**WHERE:** Bronco Student Center, California Polytechnic University, Pomona

**REGISTER:** RSVP by April 17, 2013 to [fgfreyne@gmail.com](mailto:fgfreyne@gmail.com)

**INFO:** Contact FG Freyne , Chair IEEE Foothill Section, 951-781-6798 or see

<http://foothill.ieee-bv.org/2013/03/all-foothill-ieee-students-mark-your-calendars-for-saturday-april-202013/>

## Buenaventura Section and Chapter Info

<u>Section Office 2012</u>	<u>Name</u>	<u>E-Mail</u>
Chair	Bridgeman Carney	<a href="mailto:bcarney@ieee-bv.org">bcarney@ieee-bv.org</a>
Vice-Chair	Albert Wolfkiel	<a href="mailto:awolfkiel@ieee-bv.org">awolfkiel@ieee-bv.org</a>
Treasurer	Zak Cohen	<a href="mailto:zcohen@ieee.org">zcohen@ieee.org</a>
Secretary	Karl Geiger	<a href="mailto:karl@ieee-bv.org">karl@ieee-bv.org</a>
Programs and Events	Ross Kocen	<a href="mailto:events@ieee-bv.org">events@ieee-bv.org</a>
Awards Chair	Christian Ziegler	<a href="mailto:awards@ieee-bv.org">awards@ieee-bv.org</a>
Member Development		
PACE Events Chair		
Historian	Doug Askegard	<a href="mailto:dougaskegard@ieee.org">dougaskegard@ieee.org</a>
Past Chair	Karl Geiger	<a href="mailto:karl@ieee-bv.org">karl@ieee-bv.org</a>
Sr. Representative, LA Council	Bridgeman Carney	<a href="mailto:bcarney@ieee-bv.org">bcarney@ieee-bv.org</a>
Jr. Representative, LA Council	Momin Quddus	<a href="mailto:moming7@yahoo.com">moming7@yahoo.com</a>
Section Webmaster	Karl Geiger	<a href="mailto:webmaster@ieee-bv.org">webmaster@ieee-bv.org</a>
Newsletter	Zak Cohen Karl Geiger	<a href="mailto:newsletter@ieee-bv.org">newsletter@ieee-bv.org</a>

<u>Chapter</u>	<u>2013 Chair</u>	<u>E-Mail</u>
Aerospace	Momin Quddus	<a href="mailto:moming7@yahoo.com">moming7@yahoo.com</a>
Communications	David Pehlke	<a href="mailto:chair@comsoc.ieee-bv.org">chair@comsoc.ieee-bv.org</a>
Computer	Craig Reinhart	<a href="mailto:reinhart@callutheran.edu">reinhart@callutheran.edu</a>
Electron Dev./Circuits and Systems	Sunil Pai	<a href="mailto:chair@edcas.ieee-bv.org">chair@edcas.ieee-bv.org</a>
Engineering in Medicine and Biology	Bob Rumer	<a href="mailto:chair@embs.ieee-bv.org">chair@embs.ieee-bv.org</a>
Life Members Affinity Group	Jerry Knotts	<a href="mailto:chair@lmag.ieee-bv.org">chair@lmag.ieee-bv.org</a>
Microwave Technology and Techniques	Tom Campbell	<a href="mailto:chair@mtts.ieee-bv.org">chair@mtts.ieee-bv.org</a>
Power and Energy	Bridge Carney	<a href="mailto:bcarney@ieee-bv.org">bcarney@ieee-bv.org</a>
Robotics	Bob Rumer	<a href="mailto:rrumer@callutheran.edu">rrumer@callutheran.edu</a>

Be sure to check the Section's websites for the latest updates, meeting flyers, and newsletters. Some event details may change. Sites:

<http://www.ieee-bv.org/>

<http://comsoc.ieee-bv.org/>

<http://www.ieee-bv-cs.org/>

<http://www.ieee-bv-embs.org/>

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