



IEEE BUENAVENTURA SECTION

February 2013 Newsletter

Tue. 12 Feb.	ComSoc	Amateur Radio – the Roots of Radio Communication <i>Zak Cohen, N6PK</i> Communications Society Chapter Officer Elections 6:30pm dinner, networking, 7pm meeting Skyworks, Intersection of West Hillcrest and Lawrence Drive, Newbury Park, CA 91320
Wed. 13 Feb.	Computer	Advancing Game Play with Graphics in <i>The Unfinished Swan</i> <i>Josh Sarfaty, Technical Director, Giant Sparrow</i> 6:30pm networking, refreshments, 7pm presentation Richter Lecture Hall, Ahmanson Science Center California Lutheran University
Mon. 25 Feb.	OpCom	Operating Committee Meeting 6:30 pm China Buffet, Thousand Oaks
Wed. 27 Feb.	EMBS	Teaching Global Agricultural Sustainability through Use of Technology <i>Shawna Clark, Palmdale HS</i> 6pm dinner (\$10, no RSVP); 7pm presentation (free) Ahmanson Science Center California Lutheran Univ.
Thu. 28 Feb.	AES ED/CAS LMAG	Qualification of Hardware for Mars and Other JPL/NASA Projects <i>Dr. Rajeshuni Ramesham, JPL</i> 6:30 refreshments, networking, 7pm talk Vitesse Semiconductor Corp., 741 Calle Plano, Camarillo, CA
Feb.	MTTS PES RAS	No local events planned this month. Check website for updates. Be sure to see the advertised positions on the web too.

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The IEEE

Membership News

New Members

Please join us in welcoming our new Section members:

- Ron Drake
- Bin Li



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.

Current Members: please be sure to renew for 2013! If you are currently between jobs, remember to take the “unemployed” discount when you renew to save 50% over regular membership.

--- Bridge Carney, Section Chair

Section News

Communications Society Election

ComSoc will hold officer elections at its first meeting in February 2013. If you are interested in volunteering or working as an officer in the ComSoc Chapter, please contact Victor S. Lin at vslin@ieee.org.

Victor S. Lin
Buenaventura Section ComSoc Chair

Profile Your Company In Print

We have an agreement in place with The Ventura County Reporter to write a monthly column about local tech companies. These articles will appear in print in the paper and on the paper's web site. We will also feature these items on our BV website.

We have a great opportunity to gain publicity for both the IEEE and your business. Please contact Karl Geiger or Bridge Carney if you have ideas about interesting companies or wish to learn more.

- Karl Geiger, Section Secretary

Job Opportunities



TEST ENGINEER

Alfred Mann Foundation (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

DIRECTOR – DESIGN ASSURANCE

Premier Ventura County company – must have medical device experience.

Contact

Pat Jacobs

805-579-0630

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.

Contact

Pat Jacobs

805-579-0630

pat.jacobs@advancedpersonnelprofiles.com

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 or call me at 805-558-5097.

Think about it and let me know!

-- Bridge
Chair, IEEE-Buenaventura 2013

Have News or Announcements?

If you have an event or news, IEEE or otherwise, that is of interest to IEEE members please send it to Karl Geiger, newsletter@ieee-bv.org, so it can appear in the newsletter and the website.

Details about submitting news articles, how to subscribe and unsubscribe are at <http://www.ieee-bv.org/news/>.

If you wish to write for the newsletter or website, please contact Karl or a Chapter chair.

--Karl Geiger, Section Secretary

SR. ELECTRICAL ENGINEER

Bioness (www.bioness.com) in Valencia is searching for EE with medical device experienced preferred. Must be hands on and have project mgmt. skills. 20% travel required including some international.

Contact
Pat Jacobs
805-579-0630

pat.jacobs@advancedpersonnelprofiles.com

SR. PRINCIPAL ELECTRICAL ENGINEER

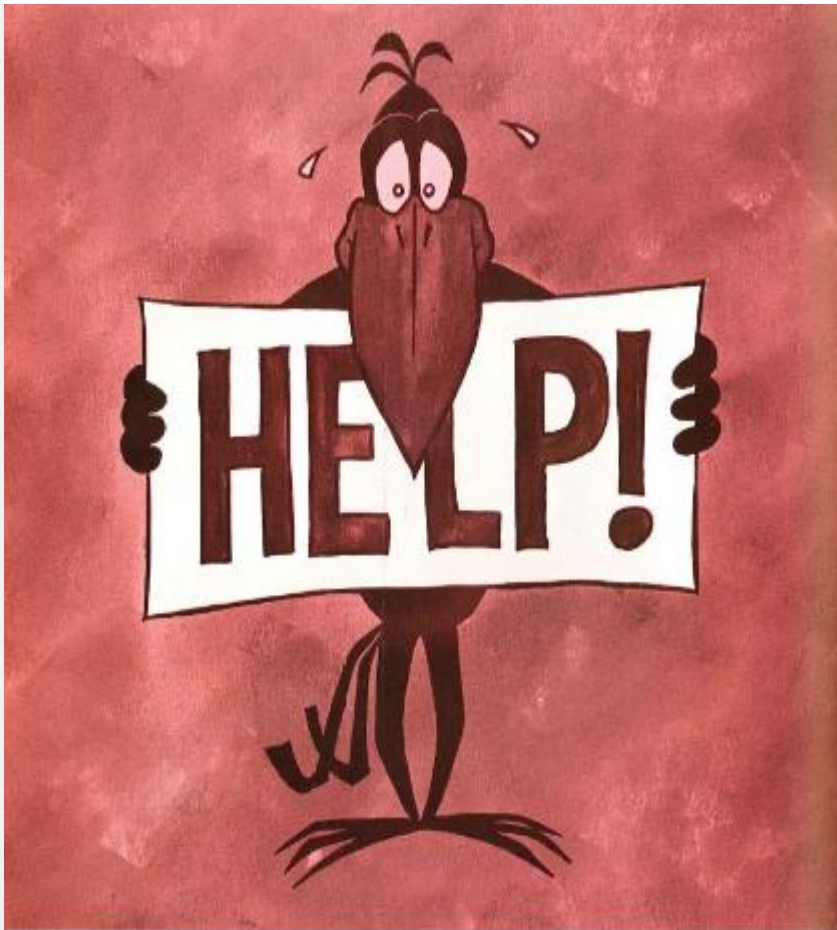
Second Sight (www.2-sight.com) in Sylmar is looking for a very experienced EE with RF and communication protocol experience. Medical device preferred.

Contact
Pat Jacobs

805-579-0630

pat.jacobs@advancedpersonnelprofiles.com





...me document Buenaventura Section history.

If you have any photos or newsletters or other information about the early years of the Section, please send to me. I will return the items to you after copying them. Thank you.

Doug Askegard, BV Section Historian
dougaskegard@ieee.org

*I borrowed a drawing of my friend, the AOC Crow, as an attention-getter for this message.

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Annual Review and Recognition Banquet

The annual Buenaventura Section review and recognition banquet was held 28 January at Ottavio's Italian Restaurant in Camarillo. The presentation is online at

<http://www.ieee-bv.org/wp-content/uploads/2013/01/IEEE-BV-2012-review-and-2013-look-ahead.pdf>



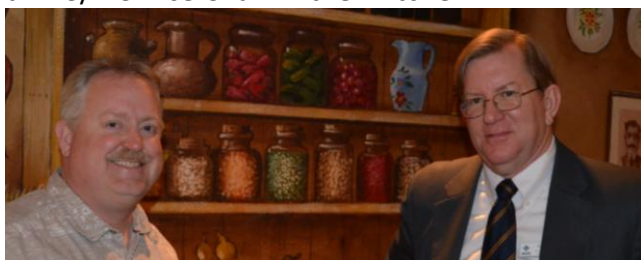
In addition to looking back and forward to 2013 events, we had the pleasure of meeting newly elevated IEEE Fellow Dr. Dean Mensa and his wife Julia. Left to right: Julia Mensa, 2013 IEEE Fellow Dr. Dean Mensa, and Section Events Chair Ross Kocen.

At right and left-to-right: 2012 Secretary/2013 Treasurer Zak Cohen, ED/CAS Chair Sunil Pai, ComSoc Chair Victor Lin, MTTs Vice Chair Rich Borgioli, 2012 Chair/2013 Secretary Karl Geiger



At left, and L-t-R: AECS Chair Momin Quddus, his wife Regina, and LMAG Chair Adrian Popa

Below, 2012 Treasure/2013 Vice Chair Albert Wolfkiel and RAS/IAS Vice Chair in the "kitchen".



Christian Ziegler, Awards and Membership Development Chair, explains how the recognition gift can get a laptop past the TSA.



2012 Vice Chair/2013 Chair Bridge Carney thanks 2012 Chair Karl Geiger.



All photos by Doug Askegard

2012 Year-in-Review

Upcoming Section and Chapter Events



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

Amateur radio – the roots of radio communication

Speaker: Mr. Zak Cohen

Abstract: Mr. Cohen, N6PK, will speak on: Amateur radio – the roots of radio communication. His discussion will focus on the history, importance and use of Amateur Radio in radio communications. He will also cover the current state of the art and the future of ham radio.

Biography: Mr. Zak Cohen is a Senior Member of the IEEE and has been a member of the IEEE Communications Society for over 20 years. He is the regional representative for admission & advancement to the international board of the IEEE and the Buena Vista Section Treasurer. Mr. Cohen is an Amateur Extra licensed ham and a life member of ARRL. Zak has been an amateur radio operator for over 50 years. He is currently President of Conejo Valley Amateur Radio Club and the Communications Emergency Coordinator for Thousand Oaks, Newbury Park and Oak Park. Zak Cohen is the Principal/President of Briarwood Associates and an Equity Partner/CTO of Telecom + UC Training.

Date and Time:

Tuesday, February 12th, 2013

Location:

Skyworks, Intersection of West Hillcrest Drive and Lawrence 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. Election, Meeting & Presentation

RSVP Requested:

https://meetings.vtools.ieee.org/meeting_view/list_meeting/16481

Advancing Game Play with Graphics in *The Unfinished Swan*

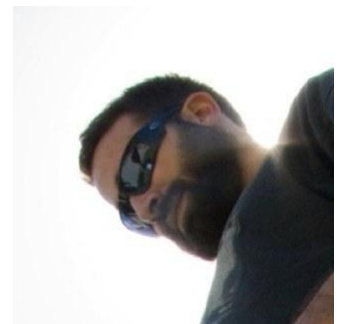
Wednesday evening 13 February, please join us as Joshua Sarfaty, Technical Director and Lead Programmer for Giant Sparrow, discusses the visual programming advances made in the novel and award-winning Sony Playstation 3 game [The Unfinished Swan](#).



The Unfinished Swan is an exploration game based around throwing paint and other random splatter materials to reveal and operate an otherwise invisible world. Traditional decal systems used for such temporary effects as footprints, bullet holes, and gore, are poorly suited for representing large, numerous, and permanent splats of paint. Joshua Sarfaty will discuss the technical details of the splat system developed for *The Unfinished Swan* and the challenges encountered.

About the Speaker

Joshua Sarfaty is the Technical Director and Lead Programmer for Giant Sparrow. He began his career developing missile targeting systems for the U.S. armed forces, but soon transitioned to the games industry. Josh has been developing console games and engines for the past 9 years, and is credited on titles such as *Madden NFL 05-06*, *NBA Ballers*, *Spiderman 3*, *UFC Undisputed*, and *The Unfinished Swan*.



About the Company

Giant Sparrow is a small video game developer focused on creating surreal experiences people have never had before. Based in Santa Monica, CA, it was founded in 2008 by Ian Dallas to develop the idea of a "first person painter" into a commercial game. In October, 2012, the company released their first game, *The Unfinished Swan*, for the PlayStation 3 as a PSN exclusive.

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:

Space is limited. Please register to attend at <http://www.eventbrite.com/event/4504358658?ref=ebtnebregn>

Register Now on 

February 27: Teaching Global Agricultural Sustainability through Use of Technology

Shawna Clark will describe how she teaches high school students about agriculture, global sustainability, and how technology and engineering contribute. She engages her students at Palmdale High School in projects that build sustainability solutions with technology.

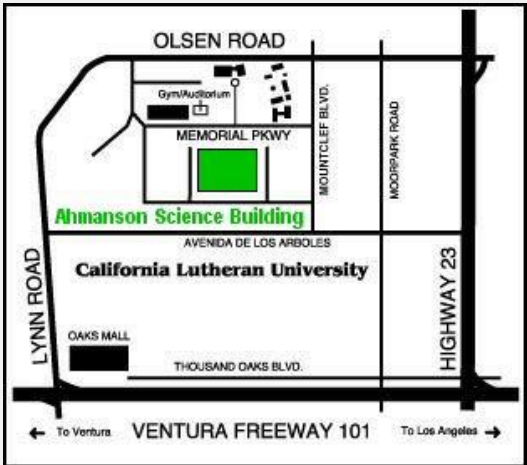


About the Speaker

Shawna Clark graduated Fresno State University Cum Laude in 1998 with a Bachelors of Science Degree in Agricultural Education with a specialization in Plant Science and an emphasis in Viticulture and Enology. She also earned dual credentials in Single Subject Agriculture and Agriculture Specialist.

Mrs. Clark is currently teaching Agriculture Science at Palmdale High School where she has enjoyed inspiring and motivating young people for the last 16 years.

Location:	California Lutheran University 60 West Olson Road, Thousand Oaks
Dinner:	In the Atrium of the Ahmanson Science Building, available at 6 p.m. for \$10 payable at the door, no RSVP needed.
Lecture:	Nearby, at 7 p.m. Come to Ahmanson beforehand for directions. Meetings are free, open to the public
Parking:	In general, visitor Parking is no longer permitted before 7 p.m. on Memorial Parkway and adjacent streets. However, CLU Public Safety has provided us with parking passes to download and use.



IEEE BUENAVENTURA SECTION
Aerospace & Electronics Systems Chapter,
Electron Devices/Circuits & Systems Chapter, &
Life Members Affinity Group



Qualification of Hardware for Mars and Other JPL/NASA Projects

Date: Feb 28, 2013

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

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

Life testing and Packaging Qualification and Verification (PQV) of advanced electronic packages, mechanical assemblies, sensors, and interconnect technologies and various other types of hardware for Mars Science Laboratory, MER, JUNO-MWR, DAWN, SMAP flight projects was performed to enhance the mission assurance by mitigating the risk. The qualification of hardware under extreme cold, hot, to benign temperatures was performed with reference to various project requirements. The flight-like electronic packages, sensor bonding processes, mechanical assemblies, test coupons, and subassemblies were selected for the study to survive three times (3X, JPL Design Principle) the total number of expected temperature cycles or duty cycles resulting from all environmental and operational exposures occurring over the life of the flight hardware including all relevant manufacturing, ground operations, and mission phases. Qualification/life testing was performed by subjecting flight-like qualification hardware to the environmental temperature extremes and assessing any structural failures, mechanical failures or degradation in electrical performance due to either overstress or thermal cycle fatigue. Experimental flight qualification test results will be described in this presentation.

Speaker: Dr. Rajeshuni Ramesham (Ram) **(Jet Propulsion Laboratory/NASA-Caltech)**

Dr. Ramesham joined JPL in 1997 and presently is a Principal Member of Engineering Staff. He just recently got elected as a Fellow of SPIE. He has worked as a research faculty in Auburn University prior to JPL. His research-work at JPL is on extreme temperature electronics and interconnects reliability for space applications. Ram has devoted his time towards Mars Science Laboratory, MER, and several other projects. He supported EMOS Project as an ERE. He worked on the application of synthetic diamond for MEMS, cold cathode, electrochemical and corrosion resistant coating applications. Ram is the recipient of several NASA awards for the research work he performed at JPL. He has also received an outstanding research performance award from the EE Department of Auburn University and a best research paper award from the IEEE Alabama Section. Ram has published over 125-refereed journal and proceedings articles and has made over 100 national, international conference, and invited presentations. He was a Key Note speaker at the IEEE conference held in Las Vegas. He is an editor and co-editor of over twelve conference proceedings. Ram has been awarded three U.S. patents and eighteen NASA internal disclosures. He has published a chapter in "Fundamentals of Microsystems Packaging" published by McGraw-Hill. Ram has been a conference chair, workshop general chair and technical chair for various MEMS, MOEMS, E-Nose, optoelectronics packaging, and low temperature electronics sponsored by various societies (IMAPS, SPIE, IEEE-CPMT, CANEUS, and Knowledge Foundation). He served as a Symposium Chair for MOEMS-MEMS Micro & Nanofabrication a part of Photonics West. He is presently serving as a Steering Committee Chair for MOEMS/MEMS symposium and also as a conference Chair for Reliability, Packaging, Testing and Characterization of MOEMS/MEMS. He has been a guest editor for Journal of Microelectronics and Electronics Packaging where packaging for extreme environments papers have been published and three JM³ Reliability of MOEMS/MEMS special issues. He serves as a member of Associate Editors of JM³. He organized several panel discussions on thermal testing of hardware for NASA sponsored by NASA, Space Agencies and AIAA.

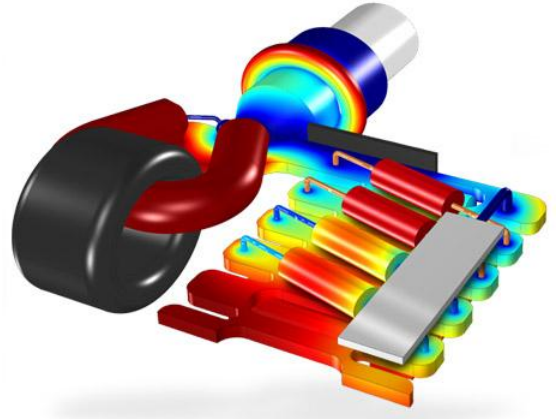
Neighboring Section, Professional Society, and Regional Events

Free COMSOL Multiphysics Software Workshop

COMSOL will host a series of free workshops around Los Angeles in the next few weeks. The workshops will include an overview of the latest software release, COMSOL Multiphysics Version 4.3a.

Attendees will be able to preview the most up-to-date capabilities of the software and also try them for themselves during the hands-on session.

Please choose a location which is most convenient to you as both workshops are identical.



- Thousand Oaks, CA (Feb. 8) <http://www.comsol.com/events/cmw/23761/>
- Los Angeles, CA (Feb. 20): <http://www.comsol.com/events/cmw/23765/>

To participate in the hands-on session, please bring a laptop with you. For system requirements visit: <http://www.comsol.com/products/requirements/>

Seating is limited, so advanced registration is recommended. If you have any questions, please contact Dr. Mina Sierou directly.

Thousand Oaks Workshop Details

Date/Time:

Friday 8 February 2013

9:30-10:30am Introduction and Live Demo

10:30am-12:30pm Hands-on Session

Where:

Thousand Oaks Library, 1401 East Janss Road, Thousand Oaks, CA

Contact:

Mina Sierou

COMSOL, Inc.

310-441-4800

mina.sierou@comsol.com



**National Engineers Week Dinner
Ventura – Santa Barbara Counties
Residence Inn by Marriott at River Ridge
February 21, 2013**



Seeking Nominations for IEEE Buenaventura Engineer of the Year IEEE Buenaventura Project of the Year

National Engineers Week is February 17-23, 2013, and our annual Ventura and Santa Barbara Counties 2013 National Engineers Week Banquet will be held at the Residence Inn by Marriott on River Ridge in Oxnard on February 21st, 2013.

Each year this banquet provides an opportunity to socialize, network, recognize the excellent work of local engineers (both as individuals and as project teams), enjoy an interesting engineering and technology presentation by a guest speaker, and present scholarships to outstanding local college students.

An important part of our annual banquet is recognizing outstanding Engineers and Projects from our membership. This year, as in past years, your IEEE leadership team is soliciting nominations for an Engineer of the Year (EOY) and a Project of the Year (POY) for recognition at the banquet.

**For nomination forms, please contact
Doug Askegard at dougaskegard1@yahoo.com**

Completed nominations should be submitted to the same, and are due by January 15, 2013. Your IEEE leadership team will then review and select one EOY winner and one POY winner who will be invited to the banquet to receive their awards.

You are invited and encouraged to attend the event. Please contact Doug at the same email address for info on purchasing tickets. Thank you!



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APEC 2013
March 17-21, 2013
Long Beach, CA

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APEC 2013 continues the long-standing tradition of addressing issues of immediate and long-term interest to the practicing power electronics engineer. Outstanding technical content is provided at one of the lowest registration costs of any IEEE conference. The conference will be held at the Long Beach Convention Center March 17 - 21, 2013. APEC 2013 will provide:

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- Professional development courses taught by world-class experts.
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- Time to network and enjoy the company of fellow power electronics professionals in a beautiful setting.

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Buenaventura Section and Chapter Info

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

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

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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