



# IEEE BUENAVENTURA SECTION

## November 2012 Newsletter

Sat. 3 Nov.	All	<b>R6 Southern Area Fall 2012 Meeting</b> 9am-3pm B20 R136 Cal Poly San Luis Obispo 1 Grand Avenue, San Luis Obispo, CA 93405 Contact: Luis Carbajo ( <a href="mailto:luis.carbajo@ieee.org">luis.carbajo@ieee.org</a> )
Tue. 13 Nov.	ComSoc Computer	<b>Networking Trends and Tomorrow's Internet</b> <i>Mr. Keith Nellis, Inphi Corp.</i> 6:30 – dinner, networking, 7pm presentation Skyworks, Hillcrest & Lawrence Drive, Newbury Park CA 91320 Register: <a href="https://meetings.vtools.ieee.org/meeting_view/list_meeting/15117">https://meetings.vtools.ieee.org/meeting_view/list_meeting/15117</a>
Wed. 14 Nov.	EMBS	<b>Virtual Surgical Nerve Location by Electromyography</b> <i>J. Lee Rea, MD, Neurovision Medical Products</i> 6pm dinner (\$10 cash); 7pm presentation Ahmanson Science Center, Cal Lutheran U. 60 W. Olson Rd, Thousand Oaks, CA Info/RSVP: Abigail Corrin, <a href="mailto:acorrin@clunet.edu">acorrin@clunet.edu</a>
TBD Nov	AESS EDCAS LMAG MTTS	TBD; Check Website for Updates <a href="http://ieee-bv.org/">http://ieee-bv.org/</a>
Mon. 26 Nov.	Section	<b>Operating Committee Meeting</b> 6:30-8pm Banquet room, Mandarin Buffet, T.O.
Nov.	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 later this month as the membership database in New Jersey has been offline due to Hurricane Sandy.

We hope our members friends and families and all others are safe after the storm in the mid-Atlantic.

Members can find and make contacts by [searching MemberNet](#) at the [IEEE Member Portal](#).



*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.

--- Karl Geiger, Section Chair

### ***Verify Your Membership Info***

Please help us keep your contact info up to date. If you have not already done so, go to

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

Enter your 8-digit IEEE members id (include leading zeroes) to view your on-file email and other information. If this information is incorrect, please update it using the IEEE membership services portal.

252 members have verified so far. A second emailing will go out in November to unverified members. Thanks for your response!

### ***Please Change Your IEEE Password***

IEEE headquarters reports a data breach exposing 100,000 IEEE member accounts with their passwords.

The data breach is particularly harmful because last Spring the IEEE began using member's email addresses as their log-ins to IEEE sites and services. Accounts at any other site or service, e.g. GMail, that uses this email address and password to log-on are also at risk. IEEE will contact compromised individuals. **As a precaution, however, all members should change IEEE web account passwords now.**

## **Job Opportunities**



### **BIOCHEMIST**

Alfred Mann Foundation ([www.aemf.org](http://www.aemf.org)) in Valencia is searching for a PhD level chemists for a six month contract. Proof-of-Concept for a very exciting project. This is a premier medical device research organization!

Contact

Pat Jacobs

805-579-0630

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

### **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)

### **PRINCIPAL SYSTEMS ENGINEER**

Alfred Mann Foundation ([www.aemf.org](http://www.aemf.org)) in Valencia is searching for an EE or Physics major with knowledge & experience in FCC frequency regulation and FDA experience. Simulate, analyze and build electronic circuits for implantable medical devices, lead system design approach & architecture.

Contact

Pat Jacobs

805-579-0630

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

See <http://www.ieee-bv.org/2012/09/change-your-ieee-org-password/> for more information and links to change passwords.

## Section News

### *Section Officer Election*

IEEE Buena Ventura Section holds an officer election **Nov 2012**.

Elected positions are

- Chair
- Secretary
- Treasurer
- Vice Chair

IEEE Members please look for an election notice in your email later this month.

-- Karl Geiger, Section Chair

### *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 Zak Cohen, [newsletter@ieee-bv.org](mailto: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 Zak or a Chapter chair.

--Zak Cohen, Section Secretary

## *Energy Efficiency Symposium 2012*

If you were unable to attend, video and presentations from the October 4 2012 EES are now online at the Section Website:

<http://www.ieee-bv.org/2012/10/2012-energy-efficiency-symposium-presentations/>

Many thanks to member Andre Hendarman for recording and producing the presentations.

-- Bridge Carney, Vice Chair

### **FOR RISK MANAGEMENT SYSTEMS ENGINEERS – PRINCIPAL & SENIOR**

Premier Ventura County company – must have medical device experience. Must have industry experience with Fault Tree Analysis or similar, ISO14971, ISO62304. Risk management plans, files, hazard analysis, user and design risk assessments. Integral to the device development process.

Contact

**Pat Jacobs**

805-579-0630

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

### **QUALITY ENGINEER**

Pasadena medical device company – 3 to 5 years experience in process/testing. Class II or III device experience.

Contact

**Pat Jacobs**

805-579-0630

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

### **MECHANICAL AND ELECTRICAL ENGINEERS**

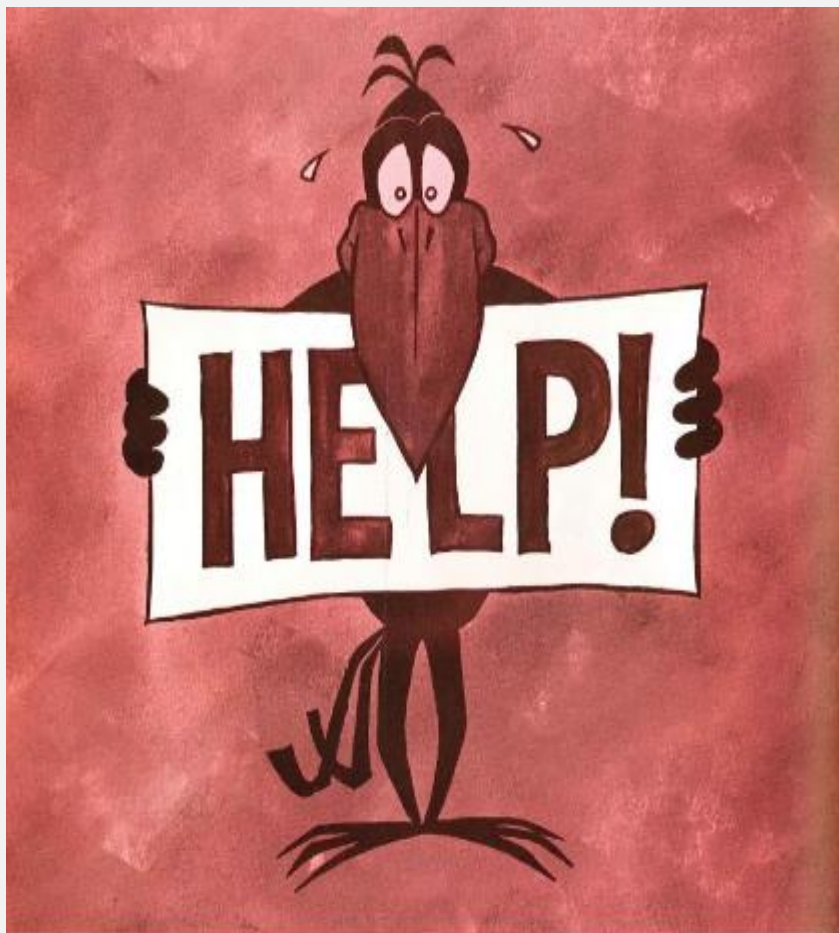
Pasadena medical device company searching for EE with 3-5 yrs experience. Need analog and digital circuit design experience. Able to write basic code for device control and Labview. Mechanical engineer to develop tooling.

Contact

**Pat Jacobs**

805-579-0630

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

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

### **SALESFORCE.COM / DEVELOPER / TRAINER**

**Bioness** ([www.bioness.com](http://www.bioness.com)) in Valencia is searching for an experienced IT staff member who will be actively collaborating with all departments to ensure the accuracy, completeness & veracity of sales, marketing, project management & inventory management data.

Contact  
**Pat Jacobs**  
805-579-0630

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

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

### **Advertise with the IEEE Buenaventura Section**

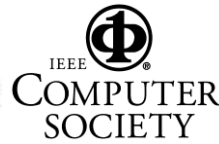
Placement ads are \$25/month  
and appear in both newsletter and online.

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.



# Section and Chapter Events



## Networking Trends and Tomorrow's Internet

*Mr. Keith Nellis, Inphi Corporation*

**Abstract:** Today, there are over 2 billion internet users and over 4 billion cell phone subscribers, one billion of whom are using smartphones. With so much of the world's population connected to the internet and an ever increasing demand for media rich content, it is not surprising that internet traffic has been growing at an astounding rate of over 50% per year for the past several years. In order to keep pace with future demand, the internet is undergoing a fundamental transformation in its architecture driven by new system designs and improved component level performance. In particular, today's internet is transforming from a static network using 10Gbps on-off-keyed optical signaling to a network that is software reconfigurable using 100Gbps phase modulation techniques. This talk will explore the changing internet architecture, advances in optical system design, and the novel components that will power tomorrow's internet.



**Biography:** Keith Nellis is currently Product Manager at Inphi Corporation. He received his BS and MS in Electrical Engineering from UCLA. After graduating with his MSEE, Mr. Nellis joined Conexant Systems (later becoming Skyworks Solutions) in Newbury Park, designing Silicon and SiGe power amplifiers for cell phone applications. Thereafter, he joined Inphi Corporation where he designed high-speed, broadband, analog circuits such as demultiplexers and clock buffers operating up to 25Gbps. Mr. Nellis later attended UCLA Anderson School of Management where he earned his MBA. Since 2008, he has been focused on product marketing for analog integrated circuits, such as transimpedance amplifiers and modulator drivers for optical networks.

**Date and Time:** Tuesday, Nov 13th, 2012

**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. Meeting & Presentation

**RSVP Requested:** [https://meetings.vtools.ieee.org/meeting\\_view/list\\_meeting/15117](https://meetings.vtools.ieee.org/meeting_view/list_meeting/15117)



## Virtual Surgical Nerve Location by Electromyography

*J. Lee Rea, MD, Neurovision Medical Products*

### *Abstract*

Neurovision Medical Products produces a surgical nerve locator using EMG technology that assists surgeons by integrating dissecting with an electronic search algorithm for finding and preventing injury to surgical nerves.



*J. Lee Rea, MD, Neurovision Medical Products*

Dr. Lea received his BSEE in 1968 from the University of Illinois Champaign/Urbana and his MD in 1974 from the St. Louis University School of Medicine, followed by a Residency in Otolaryngology, Head and Neck Surgery in 1979. Dr. Lea founded Neurovision Medical Products in 1985. Dr. Lea holds two United States Patents, both in the area of laryngeal electromyography.

***Dinner will be held in the Ahmanson Science Building. Dinner begins at 6 pm and the presentation at 7 pm in the Ahmanson Science Building.***

**NOTE DATE CHANGE:** Wednesday, 14 November, 2012

As always, meetings are held at California Lutheran University. Dinner will be held at 100 Ahmanson Science Building at 60 West Olson Road, Thousand Oaks. We offer a sit-down buffet-style dinner for \$10 and hope that you will join us for networking. Looking forward to seeing you

Please note that the parking situation at California Lutheran University (CLU) has recently changed. Visitor parking is no longer available without a permit before 7 p.m. on [streets shown in red on the map](#). Please Park in "G" lots. If you would like a one-evening on-street parking permit (readily available at no cost), or desire assistance walking to / from the Ahmanson Science Center, ask at the CLU Welcome Center or call CLU Public Safety at 805-392-3208. For more information, please see our [chapter web site](#). There is a [link to parking permits](#).

## Neighboring Section and Regional Events



### The IEEE San Fernando Valley Section Power and Energy Society (PES) Chapter

Welcome to the presentation on:

### **Basics of electrical power systems protection**

#### Milenko Bistic



#### Short Description of the Presentation

This presentation is an overview of electrical power systems protection. It explains which protection devices are employed, why they are needed, and how they are applied in electrical power systems.

The presentation discusses the basic protection requirements and components used:

- Types, purpose and mechanisms of circuit breakers
- Circuit breaker under fault conditions
- Instrument transformers
- Features of modern microprocessor relays
- Coordination of relays, fuses and circuit breakers

#### Speaker's Biography

Milenko Bistic has over 30 years of experience in ENGINEERING of switchgear and substations (up to 550kV) and in SALES of engineered electrical PRODUCTS and SERVICES. Milenko is an innovative entrepreneur and effective technology and sales executive experienced in successful management of teams and budgets.

Milenko earned B.S. and M.S. in Electrical Engineering, and B.A. in Economics and International Business at the University of Zagreb, Croatia. He is a member of IEEE - Industry Applications Society and Power Engineering Society.

As Director of Engineering for T&D Substations at KONCAR Electrical Industries & Engineering (Zagreb, Croatia) Milenko was accountable for all stages of turnkey engineering. As Senior Service Sales Executive at SCHNEIDER ELECTRIC – Square D Services, Milenko directed sales efforts and strategies in the West. At GENERAL ELECTRIC – Energy Services, as Oil & Gas Leader, Milenko developed and implemented strategic plans and a holistic synergy approach that brought together a variety of GE businesses. As Global Manager for Strategic Industrial Accounts with REXEL GROUP – Gexpro, Milenko achieved numerous successful negotiations of long-term MRO contracts. At this time Milenko works with ABB Low Voltage Products as a Business Development Manager for LV Circuit Breakers Service.

**Where:** ITT Technical Institute  
12669 Encinitas Ave  
Sylmar, CA 91342

**When:** Thursday 8 November  
2012

6:00 – 6:30 PM : Pizza & Networking  
6:30 – 7:00 PM : PES in Action  
7:00 – 8:00 PM : Presentation

**No Cost . . . Space is limited . . .**

**Please RSVP at registration link of  
IEEE SFV Section by 6 Nov 2012**

**For more information contact:**

- Milenko Bistic, Chair  
[milenko.bistic@us.abb.com](mailto:milenko.bistic@us.abb.com)
- Paul Schultz, Vice Chair  
[paul.schultz@ieee.org](mailto:paul.schultz@ieee.org)

#### **SFV Section Upcoming Events**

For events and details please visit:  
<http://ewh.ieee.org/r6/sfv/>

## Experiences in Off-Shore Consulting

### Abstract

Wes Masenten will discuss his experiences and observations while consulting for a company with its major operations based in China. He will open the talk with a brief overview of his background that prepared him for consulting and the importance of networking, especially with off-shore clients. During his talk he will discuss what a consultant should be prepared for, including:

- a client that is well versed in the current technology and expects it of his consultant,
- a reluctance to question the consultant's decisions and design,
- why language is not a barrier and sometimes is an advantage,
- working around problems associated with not being a participant in all the detailed design reviews and testing,
- designing for a highly competitive marketplace, and
- always remembering you are *their* consultant.

The talk will end with observations from visits to the client's facilities in China and a period for discussion and questions.

### About the Speaker

(M'59—LM'00) received a B.S.E.E. degree from Purdue University, a M.S.E.E. degree from the Massachusetts Institute of Technology, and a Ph.D. degree from the University of California at Irvine. He provides consulting services for the design and development of communication systems and transceiver architectures.

He was previously co-founder and Chief Technical Officer of Ditrans Corporation, a company that developed transceivers for wireless communication systems. His prior associations included Northrop Corporation, as Manager of Advanced Avionics System Engineering, and Hughes Aircraft where he served as Technical Director on spread spectrum communication and advanced communication/radar technology programs. He has served as lecturer in special courses on Spread Spectrum and Interference Rejection Techniques at UCLA, University of Maryland, and UC Santa Barbara. He has also taught courses in Control Systems, Digital Control Systems, and Communication Systems at the University of California, Irvine. He has seven awarded patents and eighteen professional publications on: adaptive filters, adaptive antennas, communication systems and stochastic processing. He is past Chair of the OCCN and currently Vice Chair of the Orange County Communication and Signal Processing Section.

### When:

Saturday, November 17th, 2012, 10:00 AM Introductions & Presentation, 12:00 PM Lunch & Social

### Where:

Cal State Fullerton on Nutwood at Route 57 in Fullerton, in the Engineering and Computer Science (ECS) Building, Room 321. Parking: Saturday parking is free. Enter from Nutwood and take Folino Drive north to Parking Lot E. See maps at [parking.fullerton.edu](http://parking.fullerton.edu) for more detail.

### More Info:

Lunch is free with reservation. Send reservations or questions to [r.gauger@ieee.org](mailto:r.gauger@ieee.org).  
See the IEEE-USA consultants website at [www.ieeeusa.org/business](http://www.ieeeusa.org/business)



## Buenaventura Section and Chapter Info

<u>Section Office 2012</u>	<u>Name</u>	<u>E-Mail</u>
Chair	Karl Geiger	<a href="mailto:karl@ieee-bv-cs.org">karl@ieee-bv-cs.org</a>
Vice-Chair	Bridgeman Carney	<a href="mailto:bcarney@ieee-bv.org">bcarney@ieee-bv.org</a>
Treasurer	Albert Wolfkiel	<a href="mailto:awolfkiel@ieee-bv.org">awolfkiel@ieee-bv.org</a>
Secretary	Zak Cohen	<a href="mailto:zcohen@ieee.org">zcohen@ieee.org</a>
Programs and Events	Ross Kocen	<a href="mailto:events@ieee-bv.org">events@ieee-bv.org</a>
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PACE Events Chair		
Historian	Doug Askegard	<a href="mailto:dougaskegard@ieee.org">dougaskegard@ieee.org</a>
Past Chair	Steve Johnson	<a href="mailto:sfjohnso@ieee.org">sfjohnso@ieee.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>
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Newsletter	Zak Cohen Karl Geiger	<a href="mailto:newsletter@ieee-bv.org">newsletter@ieee-bv.org</a>

<u>Chapter</u>	<u>2012 Chair</u>	<u>E-Mail</u>
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Communications	Victor Lin	<a href="mailto:Victor.S.Lin@aero.org">Victor.S.Lin@aero.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	Abigail Corrin	<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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Communications  
Computer  
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# IEEE BUENAVENTURA SECTION