

IEEE BUENAVENTURA SECTION

June 2012 Newsletter

| | | |
|--------------------|--|---|
| Mon. 4 June | Section | Section Operating Committee Meeting |
| Tue. 12 June | ComSoc | An Introduction to Compressive Sensing and its Applications <i>Dr. Emilio Sovero, Waveconnex Inc.</i> 6:30 pizza, networking, 7pm presentation Skyworks, 2440 West Hillcrest Drive Newbury Park, CA 91320 More Info: http://comsoc.ieee-bv.org/2012/05/june-talk-an-introduction-to-compressive-sensing-and-its-applications/ Register: https://meetings.vtools.ieee.org/meeting_view/list_meeting/12757 |
| June | Computer ED/CAS EMBS MTTS PES RAS | No events planned this month. |

Mid-month meeting announcements and additional upcoming events will appear on the website first.

Be sure to see the advertised positions on the web too.

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

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The IEEE

Membership News

Please Welcome Our Newest Members to the IEEE

Please join me in welcoming our newest members:

- Calvin Chow
- Richard J. Joyce
- Stephen Jubb
- Larry C Lace
- Frank Keith McCallion
- Negin Parya
- Gopal Raghavan
- Yunshun Zhou



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

For new members, please update and share your information at the portal to help connect you to everyone, and remember to set up your new IEEE email. Please also introduce yourself at any meeting; networking starts here in the IEEE.

--- Karl Geiger, Section Chair

2012 Membership

There is no better time to discover the value of IEEE membership!

New members that join between 1 March and 15 August are billed at half-off the full-year membership dues, and receive membership benefits now through 31 December!

To apply to join, see

<http://www.ieee.org/join> or <http://www.computer.org/join>

– Christian Ziegler, Membership Development

Job Opportunities



Are you an EE?

Second Sight (www.2-sight.com) in Sylmar is searching for a **QUALITY ENGINEER** who is an **EE**. Great company, stock options, excellent opportunity.

Contact Pat Jacobs

805-579-0630
pat.jacobs@advancedpersonnelprofiles.com

Biochemist and Polymer Chemist

Alfred Mann Foundation (www.aemf.org) in Valencia is searching for 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

Electrical Engineer

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.

Contact Pat Jacobs

805-579-0630
pat.jacobs@advancedpersonnelprofiles.com

Section News

Section Officer Nominations

A Section Officer election will be held Oct-Nov 2012. Elected positions are

- Chair
- Secretary
- Treasurer
- Vice Chair

Nominations for these positions are now open. **Nominees must be IEEE Buenaventura Section members in good standing and of Graduate Student Grade or higher.** See the [qualifications rules at the IEEE home site](#). To nominate someone or yourself, please send mail to election@ieee-bv.org.

-- Karl Geiger, Section Chair



BV PES is looking to rejuvenate its meeting schedule for 2012. If you are interested in energy (renewable, clean, dirty, nuclear, green, etc.), smart grid, distribution, smart meters, switching stations, home grid, electric cars and so forth, please contact Bridge Carney at bcarney@ieee-bv.org.

-- Bridge Carney, PES Chair, Section Vice 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, 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

Mechanical & Electrical Engineer

Pasadena medical device company has 3 month contracts for mechanical & electrical engineers. Mechanical engineer needs experience with lancet development & Electrical engineer must have expertise in analog, digital and embedded system design.

Contact Pat Jacobs

805-579-0630

pat.jacobs@advancedpersonnelprofiles.com

Quality Engineer

Bioness (www.bioness.com) in Valencia is searching for a quality engineer with expertise in a regulated industry, medical device a plus.

Contact Pat Jacobs

805-579-0630

pat.jacobs@advancedpersonnelprofiles.com

In-house Clinical Research Associate, Financial Analyst, Marketing Communications Specialist & Global Supply Chain Planner

Bioness (www.bioness.com) in Valencia has a number of job opportunities.

Medical device experience a plus, experience in manufacturing or regulated industry required.

Contact Pat Jacobs

805-579-0630

pat.jacobs@advancedpersonnelprofiles.com

DIRECTOR – QUALITY SYSTEMS

Los Angeles County medical device company is looking for an exceptional leader with top notch technical skills who will be responsible for their global quality assurance system. Must have experience with pharmaceuticals or medical devices. This is an exceptional opportunity.

Contact Pat Jacobs

805-579-0630

pat.jacobs@advancedpersonnelprofiles.com

History

History

Does Buenaventura Section have history?

Does it ever! Nearly 50 years of it!!

In 2013 we will be celebrating BV Section's
50th anniversary.

We need your stories, pictures, officer names, activities, memorable outings, Engineers Week participation, and anything else that will tell BV Section's story. If you have any of these, or any memorabilia you can loan or donate, please contact:

Doug Askegard, Section Historian

dougaskegard@ieee.org

Phone: 408-425-3060

Thank you!

Are you looking for a Paid Internship?

Second Sight (www.2-sight.com) in Sylmar has openings for a CLINICAL DATE INTERN and a COMPUTER SCIENCE / ENGINEER INTERN.

Great company, great people and a premier project!

Contact Pat Jacobs

805-579-0630

pat.jacobs@advancedpersonnelprofiles.com



Senior Hybrid Component Design Engineer

GTRAN seeks engineer to research and recommend designs, develop products, simulate and measure high speed broadband components, troubleshoot and take the project to product. Must know how to design and develop RF optical/electrical components and have experience with frequencies between 1 GHz to 40+ GHz. (5/12)

Contact

Karole Albers

805-482-1088 ext.263

karole.albers@egtran.com

Job Opportunities



Military and Industrial
Display Solutions

Electrical Engineer

Camarillo manufacturer of ruggedized military and industrial LCD display units seeks EE with 3-5 yrs experience. Need analog and digital circuit design experience, including ASIC, FPGA. Experience with ground up product design a plus. (5/12-6/12)

Contact

Judy Sitko

Judy.Sitko@NLSdisplays.com

Tel 805-389-5435 x212

Fax 805-389-5436

www.NLSdisplays.com



Field Service & Applications Engineer

Tamar Technology builds optical metrology equipment, and is searching for a field service engineer who can travel frequently to locations worldwide. The job includes training customers and evaluating samples.

The applicant must be able to work independently and be a positive face for the company. (5/12-8/12)

Contact:

David Marx

dmarx@tamartechnology.com

1-805-480-3358



Channel Islands
CALIFORNIA STATE UNIVERSITY

Computer Science Lecturer Positions

A Masters degree in Computer Science or related field is required for teaching undergraduate courses. A PhD is required for teaching graduate courses. (5/12-8/12)

Application web-site <http://csucifacultyjobs.com>

For more information contact

Peter Smith

peter.smith@csuci.edu

Looking for Academic, Scientific, or Engineering Talent?

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

Sponsorships available for website and Section.

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



Section and Chapter News and Events



An Introduction to Compressive Sensing and its Applications

Dr. Emilio Sovero

Abstract: One of the central tenets of signal processing and data acquisition is the Shannon/Nyquist sampling theory: the number of samples needed to capture a signal is dictated by its bandwidth. Recently, we have developed an alternative sampling or sensing theory which goes against this conventional wisdom. This theory now known as “Compressed Sensing” or “Compressive Sampling”—or CS for short—allows the faithful recovery of signals and images from what appear to be highly incomplete sets of data, i.e. from far fewer data bits than traditional methods use. We will describe the use of CS in wideband Analog to Digital converters: 2.5 GHz bandwidth 10 bits resolution while sampling at 400 Msps (average). This is performance beyond the current state of the art for ADC.

The web site <http://dsp.rice.edu/cs> gives an excellent resource on the theory and the various fields in which CS technique has been applied.

Biography: Emilio A. Sovero is currently VP of Technology at Waveconnex Inc (Oct 2011). He received his B.S. in Engineering, M.S. in Mechanical Engineering, and Ph.D. in Applied Physics and Information Science, all from the California Institute of Technology. Dr. Sovero joined Rockwell-Science Center in 1977. There Dr. Sovero was involved in the development of III–V devices (GaAs and InP). His particular expertise is in the design, analysis and testing of active devices. Past accomplishments include the experimental demonstration of charge-coupled devices (CCD) used as building blocks in complex analog and optical signal processing functions. Dr. Sovero was later involved in the development of PHEMT and HBT millimeter-wavelength integrated circuits and devices, including monolithic Quasi-Optic power devices, Low Noise and Power amplifiers for frequencies above 30 GHz. In 2000 he joined Vitesse Corp. where his work centered on InP HBT integrated circuits for 40 Gbps communications. In 2006 he joined Northrop Grumman Space Technology Center as a Chief Scientist in applications of III-V technology. He has over 63 publications, a book chapter and 6 US patents.



Date and Time: Tuesday, June 12th, 2012

Location: [Skyworks, 2440 West Hillcrest Drive Newbury Park, CA 91320](#)

Agenda: 6:30 p.m. Dinner, & Networking

RSVP Requested: https://meetings.vtools.ieee.org/meeting_view/list_meeting/12757

Neighboring Section and Technical Society Events

34th Annual International Conference of the
IEEE Engineering in Medicine & Biology Society
"Engineering Innovation in Global Health"
Hilton San Diego Bayfront, San Diego. Aug 28 - Sep 1



The 34th Annual International Conference of the Engineering in Medicine and Biology Society will take place at the Hilton Bayfront Hotel in San Diego. The general theme of EMBC'12, "*Engineering Innovation in Global Health*", covers a broad spectrum of topics in biomedical engineering and healthcare technologies, including medical and clinical applications.

Themes

Biomedical Signal Processing
Biomedical Imaging and Image Processing
Bioinstrumentation, Biosensors and Bio-Micro/Nano Technologies
Bioinformatics and Computational Biology, Systems Biology, & Modeling Methodologies
Cardiovascular and Respiratory Systems Engineering
Therapeutic and Diagnostic Systems, Devices and Technologies, & Clinical Engineering
Neural and Rehabilitation Engineering
Cellular and Tissue Engineering and Biomaterials
Biomechanics and Robotics

Healthcare Information Systems, & Telemedicine
Biomedical Engineering Education and Society

Key Dates:

June 1 Late-Breaking & Undergrad Papers Deadline
June 1 Advanced Exhibit Booth/Table Reservation
June 4 Author Final Submission (1st Submission Cycle)
July 25 Early Registration Deadline
July 25 Hotel Reservation Deadline



Plenary Keynote Speakers

William R. Brody, Ph.D., M.D., President of the Salk Institute: Medical Devices and Healthcare Technology: Changing the Paradigm for the 21st Century
Eric J. Topol, M.D., Director of the Scripps Translational Science Institute, and Vice-Chairman of the West Wireless Health Institute: Digitizing Man
Rebecca Bergman, Vice President of New Therapies and Diagnostics in the Cardiac Rhythm Disease Management Business Unit of Medtronic, Inc.: Emerging Medical Device Technologies: Creating Better Healthcare Solutions for Chronic Disease Management

embc2012.embs.org

Buenaventura Section and Chapter Info

| <u>Section Office 2012</u> | <u>Name</u> | <u>E-Mail</u> |
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| Vice-Chair | Bridgeman Carney | bcarney@ieee-bv.org |
| Treasurer | Albert Wolfkiel | awolfkiel@ieee-bv.org |
| Secretary | Zak Cohen | zcohen@ieee.org |
| Programs and Events | Ross Kocen | events@ieee-bv.org |
| Awards Chair PACE Events Chair | Christian Ziegler | awards@ieee-bv.org |
| Historian | Doug Askegard | dougaskegard@ieee.org |
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| Jr. Representative, LA Council | Momin Quddus | moming7@yahoo.com |
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| <u>Chapter</u> | <u>2012 Chair</u> | <u>E-Mail</u> |
|-------------------------------------|-------------------|--|
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| Life Members Affinity Group | Jerry Knotts | chair@lmag.ieee-bv.org |
| Microwave Technology and Techniques | Tom Campbell | TCampbell@sstrf.com |
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| 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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