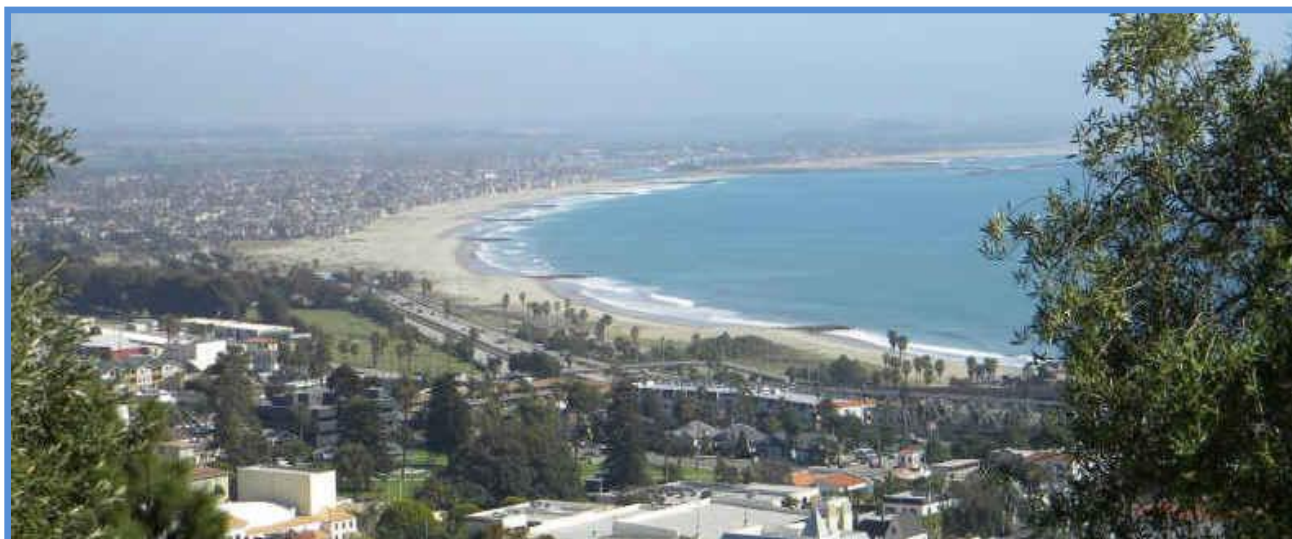




IEEE BUENAVENTURA SECTION

FEBRUARY 2014 NEWSLETTER



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Join Our **Facebook Page!** - facebook.com/IEEEofVenturaCounty

EVENTS HIGHLIGHTS!

Thursday 20 Feb.	National Engineers Week	<i>2014 NATIONAL ENGINEERS WEEK</i> <i>Ventura and Santa Barbara Counties</i> BANQUET INVITATION
Friday 21 Feb.	AUVSI	Micro Symposium Time: 2 PM – 6 PM Location: Grand Salon of the North Quad on California State University Channel islands(CSUCI) campus Registration: \$25 for non-AUVSI members, \$20 for AUVSI members and faculty. Student participation will be free
Mon 24 Feb.	OpCom	Operating Committee Meeting 6:30 pm China Buffet, Thousand Oaks
Wed 29 Feb.	EMBS/CS	Short Research Presentations - CLU Students in Bioengineering and Allied Majors Wednesday, February 29 2014 7 PM Location: CLU - Ahmanson Science Building Dinner: Available at 6 p.m., \$10 payable at door, no RSVP Contact: Steve Johnson shjohnso@ieee.org

And many more!

Membership News

Hi Everyone!

Please join me in welcoming our newest members to the IEEE:

- ✚ Iradj Shahriary
- ✚ John Maxwell
- ✚ Michael Laverty
- ✚ Sami Alharthi
- ✚ Sandra Suttiratana
- ✚ Sarah Suttiratana
- ✚ Sultan Alenezi
- ✚ Zoe Hay



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
IEEE Buenaventura Section Chair 2014**

Section News

Computer Society

The Computer Society Chapter is seeking new volunteers for officers and presentations. Please contact Craig Reinhart, CS Chapter Chair to volunteer or to speak at an upcoming meeting.

**-- Craig Reinhart
CS Chair
craig@ieee-bv-cs.org**

JOB OPPORTUNITIES



Contact Pat Jacobs -- 805-579-0630
pat.jacobs@advancedpersonnelprofiles.com

✚ **Software Manager, Alfred Mann Foundation (www.aemf.org), Valencia**

10 years experience with management. Prefer medical device or regulated industry.

✚ **Electrical Engineer, Alfred Mann Foundation (www.aemf.org), Valencia**

BSEE, 3-5 years experience with analog and digital design and development of prototypes. Inductive power & communication experience a plus.

✚ **Quality Engineer at Second Sight, Sylmar**

Two position for experienced Quality Engineers with medical device experience. One position focused on quality systems and the other for a CAPA and EtQ Administrator.

✚ **Field Clinical, Clinical Research Associate & Clinical Project Manager**

Job openings at Alfred Mann Foundation and Second Sight. Must have device experience.

Contact Pat Jacobs -- 805-579-0630 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 or see our [Ad Placement information](#) to advertise or sponsor the Section.

National Engineers Week Committee Ventura & Santa Barbara Counties Presents

2014 NATIONAL ENGINEERS WEEK Ventura and Santa Barbara Counties BANQUET INVITATION

National Engineers Week is February 17-23, 2014.

Ventura and Santa Barbara Counties 2014 **National Engineers Week Banquet will be held on Thursday, February 20, 2014** at the Residence Inn by Marriott at River Ridge located at 2101 W. Vineyard Avenue, Oxnard, CA 93030.

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. In addition an outstanding teacher (Teacher of the year) from a local school is recognized. These activities are all made possible because of generous contributions of time and resources from engineering societies in Ventura and Santa Barbara Counties and from local businesses that depend on and/or appreciate the value of the engineering profession. We invite you to join us again this year.

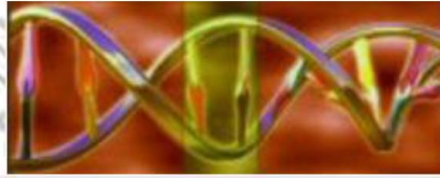
To make your reservation Visit [HERE](#)

Hope to see you there,

Regards,

Momin Quddus

**On behalf of National Engineering Week Committee
Ventura and Santa Barbara County**



Short Research Presentations - CLU Students in Bioengineering and Allied Majors

Wednesday, February 29 2014 7 PM
CLU - Ahmanson Science Building



We continue our series of research reviews from CLU students. In short presentations, students from the Bioengineering program and related fields at CLU relate their research efforts and results. Please welcome these young scientists and engineers!

Bioengineering students at CLU are given multiple opportunities to develop practical, hands-on skills for their careers, emphasizing techniques and practices for acquiring and interpreting data from biological systems. Inquiry-based undergraduate student research is a central component of the bioengineering program, with a focus on the critical analysis of the issues that arise at the interfaces between living and non-living materials. All seniors undertake an independent design project that includes optimized solutions and designs.

The bioengineering program is fully supported by an array of experimental laboratories for classroom and design projects. Coupled with these are sophisticated computer-aided design (CAD) capabilities for predictive modeling of the structure and performance of three-dimensional systems. Together, these capabilities provide the bioengineering students with the powerful ability to develop and refine predictive models to solve complex problems. Finally, bioengineering students are frequently involved in interactive projects requiring integration of these interdisciplinary topics, which prepares them both for personal growth as well as a rewarding career.

Craig Reinhart, California Lutheran University

Craig Reinhart is Associate Professor of Bioengineering at CLU and on the faculty of the Computer Science department. The author of a number of articles and conference papers, Dr. Reinhart worked at Hughes Aircraft and the Rockwell International Science Center before joining the CLU faculty. Dr. Reinhart is a software/image processing algorithm consultant to Red Digital Cinema, Inc. In addition, he is the chapter chair of the Buenaventura IEEE Computer Society, and an officer in the IEEE Engineering in Medicine and Biology Society.



- Meeting: California Lutheran University
- Site: 100 Ahmanson Science Building,
60 West Olson Road, Thousand Oaks
Meetings are free, open to the public
- Dinner: Available at 6 p.m. for \$10 payable at the door, no RSVP needed.
- Parking: In general, visitor Parking is no longer permitted before 7 p.m. on Memorial Parkway and adjacent street. However, CLU Public Safety has provided us with **parking passes** to download and use.
- Contact: Steve Johnson, sfjohnso@ieee.org



Our Sponsors: [California Lutheran University](#), [IEEE EMB Society](#), [Alfred Mann Institute](#), [MicroJoining Solutions](#), [IEEE Buenaventura Section](#), [Amgen Foundation](#)



Channel Islands Chapter of AUVSI announces a:

Micro Symposium

The Channel Islands Chapter of AUVSI will be holding a half day “Micro” Symposium.

When: Friday, 21 Feb 2014.

Time: 2:00 PM to 6:00 PM.

Location: Grand Salon of the North Quad on the California State University Channel Islands (CSUCI) campus.

- The event will include panel sessions on unmanned vehicle applications in environmental, agricultural and tri-county business opportunities.
- This will be followed by a key note speech from Assemblyman Jeff Gorell on his Gold Team California initiative.
- Students will present robotic displays and the event will close with a social hour.



Registration: \$25 for non-AUVSI members, \$20 for AUVSI members and faculty. Student participation will be free.

If you are interested in being an event sponsors please email mruavs@hotmail.com

or call (805) 816-0778.

Complimentary event parking is limited and only available in the designated parking lot. Once on campus, follow the directional signage to event parking then follow the walking signage to the event location. Free parking is available at the Camarillo Metrolink Station/Lewis Road parking lot with bus service to and from the campus. The cash-only bus fare is \$1.25 each way. Buses arrive and depart from the Camarillo Metrolink Station every 30 minutes from 7 a.m. to 10 p.m., Monday through Friday. For exact times, check the schedule at: www.goventura.org.



60th Annual Ventura County Science Fair

Volunteer as Judges

Science Fair Judges

Approximately 275 science, engineering, and industry professionals from throughout Ventura County volunteer their time to serve as judges for the Science Fair.

Participate as Students

Science Fair Participants

Each year thousands of Ventura County student's, in grades 6-12, complete science research projects at their schools, and nearly 1,000 of those students earn the right to compete at the Ventura County Science Fair. Approximately 75 of our top students are invited to the State Science Fair to compete with their peers from across California where many of our past students have placed in the top three for their category and some have been awarded Project of the Year.

Schedule

Project Application Deadline: Feb. 13, 2014

Project Set-up: March 18, 2014

Project Judging: March 19, 2014

Awards: March 20, 2014

For more information, Please visit <http://www.vcoe.org/sc/ScienceFair.aspx>

OTHER IEEE SECTION EVENTS
IEEE Coastal Los Angeles Section (CLAS) Events
Pushing the Limits of Terahertz Optoelectronics

Co-sponsored by Dr. Mehrdad S. Sharbaf

Location:

Building: Hilton Center for Business Building(HIL-E-4-on Map)
1 LMU Drive Los angeles, CA. 90045 [Click here for Map](#)

Date & Time: 19-February-2014, 7:00 PM to 9:00 PM (2 hours)

Guest Speaker Bio:

Mona Jarrahi received her Ph.D degree in Electrical Engineering from Stanford University in 2007 and served as a Postdoctoral Scholar at University of California Berkeley from 2007 to 2008. After serving as an Assistant Professor in University of Michigan Ann Arbor, she joined UCLA in 2013 as an Associate Professor of Electrical Engineering and the Director of the Terahertz Electronics Laboratory. Her research group focuses on Terahertz/Millimeter-Wave Electronics and Optoelectronics, Imaging and Spectroscopy Systems, and Microwave Photonics. Prof. Jarrahi has received several prestigious awards in her career including the Presidential Early Career Award for Scientists and Engineers (PECASE); Grainger Foundation Frontiers of Engineering Award from National Academy of Engineering; Young Investigator Awards from the Army Research Office (ARO), the Office of Naval Research (ONR), and the Defense Advanced Research Projects Agency (DARPA); Early Career Award from the National Science Foundation (NSF); the Elizabeth C. Crosby Research Award from the University of Michigan; and best-paper awards at the International Microwave Symposium and International Symposium on Antennas and Propagation. Prof. Jarrahi is a member of the editorial board of Journal of Infrared, Millimeter and Terahertz Waves and a member of the program committee of the International Conference on Infrared, Millimeter, and Terahertz Waves, IEEE International Microwave Symposium, International Workshop on Optical Terahertz Science and Technology, IEEE International Symposium on Antennas and Propagation, SPIE Photonics West Conference, and SPIE Optics + Photonics Conference. She also serves as a panelist and reviewer for National Science Foundation and Department of Energy and a member of the Terahertz Technology and Applications Committee of IEEE Microwave Theory and Techniques Society. Prof. Jarrahi is a senior member of IEEE and SPIE and a member of OSA.

[Click Here to Register](#)

For Additional Information about the talk, please visit [here](#)

IEEE SAN FERNANDO VALLEY SECTION



Geomagnetic Disturbances and High Voltage Power Systems by Mr. Del Jacoby

Thursday, February 13, 2014 from 6:00 PM to 8:00 PM (PST), Sylmar, CA

Please [Register](#) **Registration Ends: February 13, 2014 5:00 PM**

Abstract

Presentation will discuss Geomagnetic Disturbances (GMD's), why and how they occur, what the effects are here on the surface of the Earth, how these conditions affect Power System equipment and the operation of the interconnected Bulk Electrical System (BES).

The Federal Energy Regulatory Commission (FERC) is currently in the process of requiring North American Electric Reliability Corporation (NERC) to establish standards to insure that the interconnected BES can ride through GMD events without separation or cascading outages. Discussion will also include how these standards will likely take shape and the expected impact on the Los Angeles Department of Water and Power (LADWP).

Speaker's Biography

Mr. Del Jacoby is a Load Dispatcher for the LADWP, and as such functions as a Bulk Electric System Operator. He has worked in this capacity since 2007, and currently his duties include acting as a Subject Matter Expert (SME) commenting on the FERC Notice Of Proposed Rulemaking (NOPR) for GMD's. In 26 years at LADWP he has operated, and trained others to operate, the stations and equipment of the BES.

Mr. Jacoby has a ground up familiarity with the operation and capabilities of the BES, having worked in large and small Hydro Generation, Substation Operations and commissioning and operating High Voltage Direct Current Transmission Systems at Sylmar and Adelanto (including the original Mercury Arc Valves which were in service from 1970 to 2004). He has trained operations personnel, and written operating and safety procedures for use in normal and emergency conditions.



IEEE BUENAVENTURA SECTION

Buenaventura Section and Chapter Info

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