

# What's v?

*A quarterly newsletter for physics teachers in LA and Orange Counties*

## Upcoming Events @ CSULB

Oct 8	Oct 13	November 10	December 8
PhysTEC Open House	PhysTEC Make, Take & Teach	PhysTEC Demo Day	PhysTEC Engineering Challenge
Location: CSULB HSCI Time: 8:30 AM -12:30 PM	Location: CSULB HSCI 280 Time: 4:30 – 5:30 PM	Location: CSULB HSCI 280 Time: 4:30 – 5:30 PM	Location: CSULB HSCI 280 Time: 4:30 – 5:30 PM
<b>Topics:</b> Research talks, lab tours & hands on activities for all students and teachers! Don't miss this!	<b>Topic:</b> Black Boxes <i>Bring 3 2-liter soda bottles if you can</i>	<b>Topic:</b> Energy & Momentum	<b>Topic:</b> Energy & Momentum
<b>Contact:</b> Questions and RSVP at <a href="mailto:Korin.Coombs@csulb.edu">Korin.Coombs@csulb.edu</a>	<b>Contact:</b> Questions and RSVP at <a href="mailto:Korin.Coombs@csulb.edu">Korin.Coombs@csulb.edu</a> <b>RSVP by 10/5 for parking.</b>	<b>Contact:</b> Questions and RSVP at <a href="mailto:Korin.Coombs@csulb.edu">Korin.Coombs@csulb.edu</a> <b>RSVP by 11/2 for parking.</b>	<b>Contact:</b> Questions and RSVP at <a href="mailto:Korin.Coombs@csulb.edu">Korin.Coombs@csulb.edu</a> <b>RSVP by 12/1 for parking.</b>

## Upcoming Events in the Area

Sept 17	Oct 9-11	October 21-23	November 5
<a href="#">SCAAPT New Physics Teacher Workshop</a>	<a href="#">California STEM Symposium</a>	<a href="#">CSTA Conference</a>	<a href="#">SCAAPT Fall Meeting</a>
Location: CSU San Marcos <b>You MUST <a href="#">RSVP HERE</a></b>	Location: Anaheim Convention Center	Location: Palm Springs Convention Center  Advanced Registration closes 10/3.	Location: UC Riverside

Check out more upcoming events at [www.physicsatthebeach.com](http://www.physicsatthebeach.com)

## PHYSTEC OUTREACH & COMMUNITY BUILDING CONTINUES

CSULB's Physics & Astronomy Department started Demo Days and Physics Teacher Outreach in 2011 when we received the APS PhysTEC Grant. As part of that project we decided to do outreach to our area physics teachers, support future physics teachers – encouraging our physics majors to consider K-12 teaching careers, and provide opportunities for prospective physics teachers to interact with in-service physics teachers. Since then we've hosted 9 PhysTEC Open House events, co-hosted the SCAAPT meeting in conjunction with an Open House, and we've have *Demo Days* each month that CSULB is in session. The grant may be over but the department is still actively supporting these programs.

The second Thursday of every month is a chance to meet and share with other physics teachers. We rotate between

sharing demonstrations, building a piece of equipment to use in class, and physics/engineering challenges. As we begin to implement NGSS in our classrooms we need to keep engineering in mind.

Mark your calendar on the second Thursday of each month at 4:30 PM for the Demo Days. Free (and close!) parking is provided and so is food!

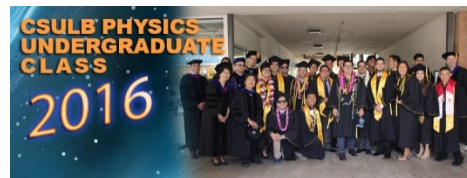
## DEPARTMENT RECEIVES ACCOLADES & GRANTS!

The Physics & Astronomy Department at CSULB has been recognized nationally for closing the achievement gap and time to graduation between males and females and between under-represented groups and non under-represented groups in physics. Additionally, the campus has been recognized as one of the top 10 largest grantors of bachelor degrees to under-represented groups and females, and is the largest MS granting program in the nation.

If you have any questions or would like to contribute to this newsletter, please contact us at [ebrundin@lbschools.net](mailto:ebrundin@lbschools.net) or [laura.henriques@csulb.edu](mailto:laura.henriques@csulb.edu) visit the website [www.physicsatthebeach.com](http://www.physicsatthebeach.com)

This department supports its majors. There are opportunities for undergraduate research, a very active (and award winning) Society of Physics Students chapter, and an environment which supports physics majors and the wide variety of career choices available to them.

The American Physics Society selected CSULB to be one of six *Bridge Sites* to promote the transition of underrepresented groups to physics Ph.D. programs. The program provides support for under-represented populations of students to become competitive for Ph.D. programs.



## PHYSICS TEACHER OPEN HOUSE – OCTOBER 8<sup>TH</sup> AT CSULB

Each fall the Physics & Astronomy Department hosts an Open House for physics faculty, physics majors and graduate students, area high school physics teachers and a small group of *their* physics students. It's a unique opportunity for a wide continuum of physics enthusiasts to join together to learn a little physics, do an activity, share a meal (brunch is included) and network.

The Fall 2016 Open House will be on Saturday, October 8<sup>th</sup>. Please consider bringing a few of your students and joining us for a fun filled morning of physics. Details about the Open House and RSVP information is on the website – [www.physicsatthebeach.com](http://www.physicsatthebeach.com).



### MEET OUR NEW DEPARTMENT CHAIR!

Dr. Andreas Bill is CSULB's new Physics & Astronomy Department Chair. He took over the reigns from Dr. Chuhee Kwon who served as Chair for the past five years. Dr. Bill is a condensed matter physicist. He earned his Ph.D. in physics from University of Stuttgart in Germany. Dr. Bill has been on the faculty at CSULB since 2005 where he has teaches undergraduate and graduate level courses, oversees student research in condensed matter theory and served as Graduate Advisor.

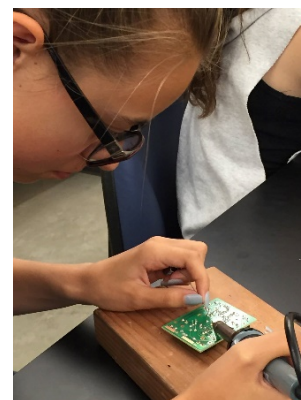
Dr. Bill will be continuing the efforts started under Dr. Kwon's leadership of supporting and encouraging K-12 physics teaching.

### CSULB HOSTED A HIGH SCHOOL GIRLS PHYSICS CAMP PROGRAM

For the past 17 years CSULB has hosted a summer science camp for youth. For the third time we were able to offer a physics experience for high school girls. Partially funded by the Beckman Coulter and other private donors, the program is part of an effort to encourage more females to consider the physical sciences. Our campers turned chapstick containers into flashlights, wired totebags to light up when they opened, soldered, built beetlebots and more. We hope to be able to do this again next year. Please encourage some of your high school girls to join us.

### LET US KNOW WHAT YOU WOULD NEED FROM US!

We'd like to be a resource for our area physics teachers – you need new content? Want to have a Saturday devoted to NGSS?



If you have any questions or would like to contribute to this newsletter, please contact us at [ebrundin@lbschools.net](mailto:ebrundin@lbschools.net) or [laura.henriques@csulb.edu](mailto:laura.henriques@csulb.edu) visit the website [www.physicsatthebeach.com](http://www.physicsatthebeach.com)