



The Beaker

NEWS FROM THE NORCAL STEM EDUCATION FOUNDATION

Issue 42, September 7, 2017

BROADCOM COMPETITORS FROM NORCAL STEM

Two top competitors from the Middle School Division at the 2017 Sac STEM Fair are in the Top 300 (of more than 2,500) students in the Broadcom MASTERS Competition and will be competing against other middle-school students from 37 states, Puerto Rico and the Department of Defense overseas!

The two students are: Yahvin Gali from California Connections Academy at Ripon in Ripon, CA for his project titled *Watts from Waves - Low Impact, Nature Inspired, Hydrokinetic Energy Harvester* and Zuriel Erikson Joven from Sutter Middle School - Sacramento in Sacramento, CA for his project titled *Improving the EyeWriter for Patients with Locked-in Syndrome*.

In recognition of their achievements, these two students will receive a prize package containing an award ribbon; a semifinalist certificate of accomplishment; a Broadcom MASTERS backpack; a Broadcom MASTERS decal; an Inventor's Notebook and a copy of Howtoons: Tools of Mass Construction graphic novel, courtesy of The Lemelson Foundation; a one year subscription to Mathematica+ software, courtesy of Wolfram Research; and a one-year family digital subscription

to Science News magazine. In recognition of the role that teachers play in the success of their students, each designated teacher will receive a Broadcom MASTERS tote bag and a one-year digital subscription to Science News magazine.

The official Finalists (30 students) will be announced on September 20. Finalists will receive an all-expense paid trip to Washington D.C. from October 20-25 to showcase their projects at Union Station and compete in a competition to win over \$100,000 in scholarships and prizes.

**Good luck to
Yahvin and Zuriel,
NorCal is rooting for you!**



REMINDER: REGISTRATION IS OPEN!

While registration has been open since June 5, we know that with your wonderfully hectic summer schedules, you may have missed that news! So here it is again:

There are multiple ways to participate in the STEM Fair: you can compete (complete a STEM Fair Project with the correct pre-approvals, the middle and high school competitions, while the showcase division is only open to students in grades five through eleven. You can read more about the requirements to

CALENDAR OF EVENTS

- September 6** - Chipotle Fundraiser @ Fair Oaks Blvd.
- September 7** - STEM Presentation at CK McClatchy High School (Sacramento)
- September 8** - STEM Presentation at Y.E.S. STEM Charter School (Oregon House)
- September 9** - Folsom Electricity Fair
- August - November** - Foundation Presentations to interested Schools, Teachers, Organizations

Donate to the Foundation while Grocery Shopping!

Do you shop at Raley's, Bel-Air, or Nob Hill? If so, please join the **Extra Credit program** for the Sacramento Regional Science and Engineering Fair Foundation (dba NorCal STEM Education Foundation). It's all online and just takes a few simple clicks to support the Foundation! [See instructions on how to sign up here.](#)

Are YOU a State Worker Who Donates Through "Our Promise" (formerly CSECC)?

The Sacramento Regional Science & Engineering Fair Foundation (dba NorCal STEM Education Foundation) hopes you will elect to donate to our organization during the Fall 2017 Campaign as a certified non-profit with Our Promise. As information is released on HOW to donate, the Foundation will share it with you!

Sponsor STEM Education Today!

Does your organization support STEM Education? Would you like to be more involved? Then consider becoming a sponsor of the NorCal STEM Education Foundation, today! All sponsors receive benefits such as being featured on our website and marketing materials. **All** the money goes toward increasing student interest in STEM! It's a win-win! If you or someone you know is interested in sponsoring the Foundation, either monetarily or with in-kind goods or services,

REGISTRATION FOR THE 2018 SACRAMENTO REGIONAL STEM FAIR IS OPEN.

While the Final Deadlines not scheduled until February 1, 2018, your registration must be completed BEFORE you begin experimentation. With that in mind, we suggest you register on or before November 28, 2017 to ensure that the Scientific Review Committee (SRC) has enough time to review your project before you start experimenting! No singing eyebrows

explain your project to professional scientist and engineer judges, spend a day with like-minded students and try your best to earn scholarships and prizes) or you can showcase (complete a STEM Fair Project with the correct pre-approvals, spend a day with like-minded students and gain some valuable experience explaining your project to people who are not judges).

The competitive division is only open to students in your project before you grades six through twelve, and is also split between

to participate, as well as find the steps to register your project there. If you're a veteran who already knows most of the rules (the do change yearly, you know), you can skip straight to registration here (for high school competitors), here (for middle school competitors), and here (for showcase students).

Teachers who would like their classes to attend the Fair as observers can also register for a field triphere.

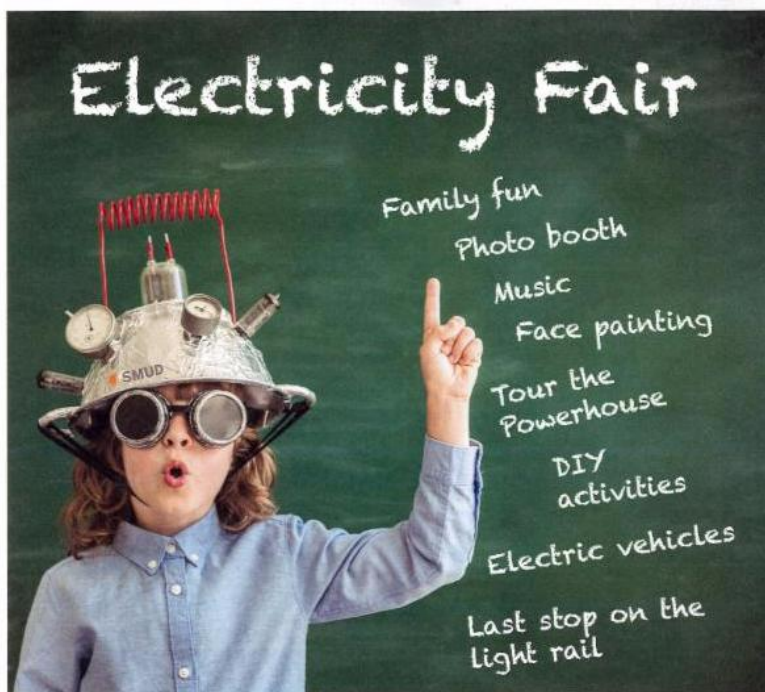
Happy registering!

please visit our [sponsorship page on the website](#) to learn more.

Zero Robotics High School Tournament 2017

Teams of U.S. high school students are challenged to design a software program for small satellites aboard the International Space Station. The competition centers on the Synchronized, Position, Hold, Engage, Reorient, Experimental Satellites, or SPHERES, that operate inside the station's cabin. Finalists will have their codes sent to the station, where an astronaut will program the SPHERES to run their tests. Visit the site on September 9, 2017, at 1 p.m. EDT (10 a.m. PST), to watch this year's live kickoff event. The deadline to register for the competition is **September 27, 2017.**

[Zero Robotics Tournament](#)



September 9, 2017 | 10 a.m. – 2 p.m.
 Folsom Powerhouse State Historic Park
 9980 Greenback Lane, Folsom 95630



Come see us at the Folsom Electricity Fair!
 Staff will be available to answer questions about the STEM Fair, registration, or our many programs. See you Saturday!

SUMMER'S ALMOST OVER, TELL US ABOUT IT!

TELL US ABOUT YOUR SUMMER

Summer Vacation is over, but don't fret! We still want to know what YOU did with STEM this summer! Did you go to a science summer camp? Did you start experimentation (make sure to shoot us a quick email so we can put your experiment through SRC if you intend to use it for next year's Fair!)? Don't be shy - we will accept stories from students, teachers, even parents! Submit your stories to sacSTEMfair@sacSTEMfair.org and we will publish them in the next Beaker!

FOLLOW US ON TWITTER

We're doing our best to ramp up our presence on Social Media - that includes posting to Twitter more often! Do YOU have a Twitter account? If so, follow us. We'll be using it to communicate more often regarding important Fair information, and to announce our upcoming year-long fundraising program, set to kick off in September!

Get Social with us!

