



Issue 33, October 3, 2016

## REGISTRATION IS NOW OPEN!

Visit us online or request a paper copy today!

It feels like you just started school, but October is already here! It might seem far away, but the experimentation review deadline for your project for the Sacramento Regional STEM Fair deadline is already at the end of NEXT month!

November 28 is the deadline to submit your registration so that the Scientific Review Committee (SRC) can review your experimental procedure to ensure safety. This is required of all project submissions. **Don't worry - this doesn't mean you have to perform your experiment yet - we simply need to know WHAT you plan to do!**

After the SRC approves your project, you will receive an email notifying you that you can go ahead and get started on actually carrying out your experiments! This way, you can rest assured that you are not wasting time on performing aspects of a project that can be dangerous to you or those around you!

*Remember: Project boards do NOT need to be completed until the actual Fair day, March 25, 2017.*

Please feel free to contact us at [sacSTEMfair@sacSTEMfair.org](mailto:sacSTEMfair@sacSTEMfair.org) or at (916) 441-3150 with any questions or concerns about the registration deadlines or about the process.

[CLICK HERE](#) to register for the **COMPETITIVE DIVISION**.

OR

[CLICK HERE](#) to register for the **SHOWCASE DIVISION**.

## EXHIBITORS! REGISTRATION IS OPEN

### Looking for a replacement for Career GPS? Look no further!

Register today as an exhibitor for the 2017 College & Career Expo to be held at American River College on March 25, 2017.

Exhibiting is a great way to market your organization, college, or company. Exhibits will be open to the public. The attendees will include the participating Regional STEM Fair students, teachers and parents as well as the public - that's over 1,500 people! Bring your hands-on activities and showcase your support for STEM education. The exhibit space includes an open-air space approximately 10'x10' in size so you will have plenty of room to involve students and parents in your demonstrations!

You can reserve as many exhibit spaces as you need! All exhibitors will receive a listing in the program, a feature in our newsletter, and recognition on our website. Fee waivers and/or reduced fees are available for some non-profits and some state organizations.

Additional sponsorship opportunities are available to meet your company's marketing needs.

A tentative schedule of events is posted online [#exhibitortimeline](#).

Contact us today with any questions!  
Register now! #exhibittoday

## CALENDAR OF EVENTS

**November 21** - Registration DEADLINE for students to enter their experimentation information!

**October - December** - Contact the NorCal STEM Education Foundation for in-class presentations and help with registration!

## DONATE TO THE FOUNDATION WHILE SHOPPING FOR GROCERIES!

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. [See instructions on how to sign up here](#). It's all online and just takes a few simple clicks to support the Foundation!

## ARE YOU A STATE WORKER LOOKING TO DONATE THROUGH "OUR PROMISE" (formerly CSECC)?

The donation website for "Our Promise" has been taken offline, but state employees can still make their donations the old-fashioned way! The Sacramento Regional Science & Engineering Fair Foundation (dba NorCal STEM Education Foundation) hopes you will elect to donate to our organization. We've even prepared the form for you with our information to make it simple. Use the Our Promise form with our information [here](#).

## SPONSOR THE FOUNDATION 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 sponsorships get featured on our website and in the STEM Fair program, and 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, please visit our sponsorship page on the website to learn more!



SMUD's informative exhibit at the 2016 College & Career Expo!

Be sure to register early to secure your spaces!

[#exhibittoday!](#)

## PIN DESIGN CONTEST OPEN

Do you consider yourself somewhat of an artist? If so, we want YOU to help us design our 2018 STEM Fair pin! Each year, the NorCal STEM Education Foundation provides pins to participants at the Sacramento Regional STEM Fair to commemorate the event. These pins travel with the winners who go on to compete in the Intel International Science & Engineering Fair and are traded among competitors from all over the world! Imagine YOUR design traveling to Europe, Asia, even Australia!

The contestants for the Pin Design Competition will be featured on-site at the 2018 Sacramento Regional STEM Fair and the winner will be named at the Awards Ceremony.

Rules to Enter: All designs should be scalable (submitted in EPS format) and visually appealing when reduced to 1 1/2 x 1 1/2 inches. Designs will be displayed in color in two sizes for voting. Designs will be shown in a print area of 4x6 inches alongside a pin preview thumbnail of 1 1/2 x 1 1/2 inches. Pin designs should state "2018" and "Sacramento Regional STEM Fair." The chosen pin is subject to change to reflect the name of the 2018 Fair.

Individual submissions only. Contest is limited to students in grades 5-12 who reside in the NorCal STEM Education Foundation's service area.

To learn more, [visit our website](#).



Past Pin Designs



## Classroom Presentations!

Teachers! Want a STEM Fair presentation at YOUR school? Presentations are a great way to drum up student excitement about conducting their own research, and can allow us to directly handle your students' registration questions! If YOU want us to come to your classroom, contact us today!

[http://sacstemfair.org/teachers---coordinators.html#request\\_presentation](http://sacstemfair.org/teachers---coordinators.html#request_presentation)

## HELP JUDGE THE REGIONAL STEM FAIR!

**WHY VOLUNTEER TO JUDGE?** You have a chance to act as an ambassador for your scientific, tech, engineering or mathematical profession. At the Fair, you may be the first professional in the STEM field these students have ever had the chance to meet in person. Judges make a memorable impact

**WHAT ARE THE CATEGORIES TO BE JUDGED?** Projects are judged in the following categories:

- Behavioral and Social Sciences
- Biological Sciences

## SCIENCE SPOTLIGHT

### Cooler clothes, literally!

Yui Cui, a materials scientist at Stanford University in Palo Alto, California, has developed a fabric that's transparent to body heat with his team. The difference between a regular cotton t-shirt and this new fabric, polyethylene, was 2.7 degrees Celsius cooler! Cui figures that with new cooler clothing, energy costs will go down because people won't use as much air conditioning! To read more about these cool clothes, click here: [#coolclothes](#).

### Measles Massacred

According to the World Health Organization (WHO) and the Pan American Health Organization (PAHO) this week, the measles virus has been eliminated from the Americas. The Americas became the first region in the world to be certified as having eliminated endemic transmission of measles after twenty-two years of work on behalf of the two organizations. PAHO Director Carissa F. Etienne congratulated the Organization's Member States for their progress in health, and recognized vaccinations' efforts in achieving this goal. Although measles still pop up occasionally in the Americas, they stem from travelers bringing the virus in from other parts of the world. A home-grown outbreak in the America's hasn't occurred since a 2002 outbreak in Venezuela. To read more about PAHO's goals, click here: [#measlesmassacred](#)

## SCHOLARSHIPS

### The Conrad Spirit of Innovation Challenge - \$10,000

The Conrad Spirit of Innovation Challenge is an annual multi-phase competition that challenges high school students (ages 13-18) from across the globe to use STEM (science, technology, engineering and math), innovation and entrepreneurship to develop technologies and solutions to real-world needs. The Conrad Challenge was founded by Nancy Conrad in honor of her late husband, astronaut, innovator and entrepreneur, Charles "Pete" Conrad, Jr. The 2015-2016 Challenge marks the 10th competition. Participants work together in teams of two to five members to develop solutions in one of four categories: Aerospace & Aviation, Energy & Environment, Cyber Technology & Security and Health & Nutrition. For more information, click here: [#Conradchallenge](#)

## OTHER COMPETITIONS

### Verizon Innovative Learning App Challenge

Middle and High School students in teams of five to seven work together to design an app that solves a problem in their community. The contest is open to students in grades 6-12, with teams that are affiliated with schools or other non-profits, and who have an adult advisor. The deadline to register is November 18. Want more information? Visit their website: <http://appchallenge.tsaweb.org/>

on the lives of some of our regions' most talented young people who have their sights set for the STEM workforce. These students are the future of our workforce and you have the chance to help them along their journey by judging at the STEM Fair!

**WHAT DOES A JUDGE DO?** Judges are responsible for evaluating projects in their assigned category, which will be decided during Judges Orientation prior to the Fair. They must provide clear and impartial feedback to each student they interview.

Judge duties include:

1. Review each entry in your assigned category and take notes during the Project Board review as well as the Interview.
2. Complete and return scoring sheets to your Team Lead by the specified time.

- Chemistry and Biochemistry
- Engineering
- Math and Computer Sciences
- Physical Sciences
- Energy and Transportation

See the full list of categories for projects here: [#categories](#).

**HOW MUCH TIME WILL IT TAKE?** The Judges' Orientation Dinner is scheduled for Friday, March 24, 2017 beginning at 6PM at American River College where judges will be trained on the judging process and encouraged to review student project boards without students present. We estimate that judges may devote a maximum of 5-8 total hours for judging Friday through Saturday.

**READY TO SIGN UP?** Sign up online: [#judgeregistration](#). If you have any questions or concerns please feel free to contact us at [sacSTEMfair@sacSTEMfair.org](mailto:sacSTEMfair@sacSTEMfair.org).



## The Regional STEM Mentoring Program

Great minds follow great mentors! The Regional STEM Mentoring (RSM) program provides a foundation for students to build hands-on skills, receive advice, and grow into independent individuals ready to jump-start their careers. The RSM program dedicates itself to opening the minds of students to pursue greater STEM careers with a passion for what they want to do. Students who go through the program emerge better equipped for the STEM workforce and their future careers! Please visit our website for more information and to sign up for this amazing experience:

[www.sacstemfair.org/regional-stem-mentoring-program](http://www.sacstemfair.org/regional-stem-mentoring-program)