



Contra Costa County
2012 Science & Engineering Fair
Los Medanos College Science Building
2700 E. Leland Road, Pittsburg
March 15, 16 and 17

Special Awards

The Contra Costa County Science & Engineering Fair (CCCSEF) is designed to support the use of hands-on science & engineering projects in middle and high school classrooms throughout the county. CCCSEF honors outstanding student projects both in junior division (grades 7 and 8) and senior division (grades 9,10, 11 & 12).

Students are judged in both junior and senior division in each of six categories including 1) math & computer sciences, 2) biological—includes biochemistry, biotechnology, microbiology, zoology, medicine & health, and botany, 3) physical—includes chemistry, earth & space, and physics, 4) behavioral/social sciences—includes gerontology, 5) environmental sciences, and 6) engineering.

Student participants earned the right to compete in the CCCSEF by submitting a formal application and having it reviewed and approved by the Scientific Review Committee/Institutional Review Board of the Contra Costa County Science & Engineering Fair. More than 90 judges from Contra Costa industry and Post Secondary Education will judge the projects using pre-selected criteria which includes creative ability, scientific process & engineering goals, thoroughness, skill, clarity and demonstration of knowledge.

Students compete in either junior or senior division by category for the following CCCSEF-conferred awards:

First Place	Blue Ribbon (one given in each of 6 categories by Division)
Second Place	Red Ribbon (up to three given in each of 6 categories by Division)
Third Place	Green Ribbon (unlimited number given)
Fourth Place	Yellow Ribbon (unlimited number given)

Special Awards may also be presented by a business, professional and/or educational organizations. Special awards may include but are not limited to monetary grants, scholarships, subscriptions, summer internships, books, tour of facilities, equipment grants and scientific field trips, to mention a few.

There are two ways in which an individual organization can confer a Special Award at the Contra Costa County Science Fair for student science fair projects:

1. Identify an award in your organization's name to be added to the CCCSEF-conferred award winners based upon the formal CCCSEF judging process. This would mean that, in addition to CCCSEF announcing the student winner by division/by category/by place, the CCCSEF would also announce your organizational award for "best in category." This means that you agree to rely on the CCCSEF judging process to determine the recipient of the Special Award in your name.
2. Identify an award in your organization's name and provide your own criteria **and** judges to determine the award recipient from your organization.

The CCCSEF judging process will be held on Friday, March 16, 2012 from 8:30 a.m. through 2 p.m. at Los Medanos College, 2700 E. Leland, Science Building, Pittsburg. Students will **only** be present and at their projects from noon to 2 p.m. You may make arrangements with CCCSEF to send your judging team on March 16 to review all science fair projects and determine your organization's award recipient. You may then formally announce the special award yourself at the appropriate time on the agenda of the Awards Ceremony on March 17 between 9 and 10:30 a.m. at LMC. If you would prefer, you may ask that the CCCSEF announce your award on March 17. Please complete the form which follows and submit it to CCCSEF at lizritchie@me.com or by contacting Liz Ritchie, 925-684-4995.

Examples of Special Awards include:

ADA Foundation For the best exhibit with application to dental research. Award of \$1,000 MI046 Inhibition of HIV Production in Genetically Generated HIV Model Through HIV TAT TAR RNA Binding Domain

(over)

Examples of Special Awards (continued)

Agilent Technologies Paid summer internship at an Agilent Technologies site. Each internship not to exceed eight weeks. Paid Summer Internship BI062 The Effects of Oxidative Damage on Protein Translation Efficiency

Albany College of Pharmacy of Union University The Albany College of Pharmacy-Biomedical Sciences Excellence Award is presented to selected individual(s) demonstrating outstanding achievement in the area of biomedical sciences at the Intel International Science and Engineering Fair. Scholarship Award of \$5000 per year for four years CH051 Cyanide Detection Using a Myoglobin Biosensor

American Geological Institute AGI is pleased to recognize three projects that best reflect the study of Earth and the mission of AGI. Founded in 1948, AGI strives to increase public awareness of the vital role of the geosciences to mankind and society.

American Meteorological Society For the best exhibits in the area of Atmospheric, Oceanic and Hydrologic Sciences
First Award of \$1,000 | Second Award of \$500 | Third Award of \$250 | Honorable Mention Award

American Physiological Society For the best projects in the physiological sciences which include cellular physiology, animal physiology and neurophysiology

American Society for Microbiology For the most outstanding project in the Microbiological Sciences, a \$1000 scholarship award; a one year student membership in the Society (including monthly membership magazine "ASM News" and access to Members-Only web resources); and the book "Intimate Strangers" inscribed personally from the President of ASM.

Bureau of Reclamation/U.S. Department of the Interior For exhibits related to water resources development and management, including hydroelectric and electric power generation, engineering design, construction materials, irrigation, water management and conservation, water quality, fisheries and aquatic ecology and wetlands.

First Award of \$500 and a matching \$500 award to the winner's school
Second Award of \$300 and a matching \$300 award to the winner's school
Third Award of \$200 and a matching \$200 award to the winner's school
Honorable Mention Award

Coalition for Plasma Science (CPS) These awards will be given to the two best projects in the broad area of plasmas. Topics include (but are not limited to) plasma-related topics in lighting, display, materials processing, space physics, terrestrial phenomena (lighting, aurora, etc.), fusion, and basic plasma science. Criteria include overall scientific merit, understanding of problem, and approach to the topic.

Drexel University For projects in the categories of Computer Science, Engineering, Medicine and Health and Physics. Tuition Scholarship of \$105,000
Scholarships are renewable for up to 5 years pending maintenance of a 3.0 GPA and full-time status. Each scholarship is valued at \$105,000. Scholarships will go into effect upon admission to the University.

Florida Institute of Technology Florida Tech tuition scholarship of \$40,000 to be distributed over 4 years, renewable annually.

Geological Society of America The Society will award prizes for science and engineering projects investigating the earth and related sciences. The winners and their schools will receive a free subscription to "GSA Today", the GSA monthly newsletter. Projects will be judged on their demonstration of a high level of understanding of earth science concept(s), how the earth is a system, and use the innovative methods to explain concepts.

Ricoh The Sustainable Development Award, first presented at the 2005 Intel ISEF, will go to the entries, selected from among all award categories, whose principles and technical innovations offer the greatest potential for increasing our ability to grow environmentally friendly and socially responsible businesses. The award combines a hosted trip to the 2005 World Exposition in Aichi, Japan and \$50,000 in scholarship awards to be shared by two finalists or a team. Honorable Mention Award of \$5,000

Showboard, Inc. For the best use of scientific method on a project display board taking in to account structure, scientific method, titles and overall appearance of project display First Award of \$1,000 | Second Award of \$100 | Third Award of \$50



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Special Award Designation

Your Name AND Title:

Your Affiliation:

Title(s) of Award(s):

Amount of Award: \$

Project Number of Recipient: *(do not complete until March 16th)*

Title of Recipient's Project: *(do not complete until March 16th)*

Recipient's Name: *(do not complete until March 16th)*

Criteria for Award:

Will YOU be presenting your award at the Awards Ceremony on March 17?

_____ yes _____ no

If no, list the name and title of the person who will present your award:

Name: _____ Title: _____

If no one from your organization plans to attend the Awards Ceremony, and would like us to present the award,

Check here: _____

Please FAX this form to 925-672-7019 so that we may plan on your Special Award designation prior to the Science Fair event.

Judging will occur on Friday, March 16th commencing at 8:30 a.m.

On the day of the awards (Saturday, March 17th) please plan on arriving at Los Medanos College's Gym (behind the Science Building) NO LATER THAN 8:30 a.m.

For more information contact April Treece at lizritchie@me.com or by phone, 925-684-4995.