



California Science Center
CALIFORNIA STATE SCIENCE FAIR
2014 Special Awards

CAPCA Agricultural Award – For the projects that best explore the industry that makes California the state that feeds the world, the \$31 billion agriculture industry. One award in each division. Award is \$1000 in US Savings Bonds. Presented by the California Association of Pest Control Advisors.

Senior Division: S0526, Chaitra S. Subbarao, Monterey County

Junior Division: J1708, Suchitra Dara, Kern County

Coastal Science Award – For excellence in coastal science and/or engineering, addressing problems or providing new solutions or technology to coastal and ocean issues. Limited to projects in the Senior Division. Award is \$500 and membership in CSBPA, California Chapter. Presented by the California Shore & Beach Preservation Association.

Award: S1108, the team of Stacey S. Dojiri and Kelly Y. Woo, Los Angeles County

Excellence in Environmental Education Award – For projects that best exemplify the role of environmental education in advancing science education in the state. One award in each division. Award is \$500. Each student's sponsoring teacher will also receive \$400 and a plaque, to be presented in December 2014 at the joint CSTA/NSTA conference held in Long Beach. Presented by the California Environmental Education Foundation.

Senior Division: S1108, the team of Stacey S. Dojiri and Kelly Y. Woo, Los Angeles County

Junior Division: J1018, Ananya Karthik, Santa Clara County

LA BioMed Award for Excellence in Biochemistry and Molecular Biology – For achievement in the field of Biochemistry/ Molecular Biology. Limited to the Senior Division. Award is \$1,000. Presented by the Los Angeles Biomedical Research Institute at Harbor-UCLA Medical Center (LA BioMed).

Award: S0524, Vaishnavi Shrivastava, Alameda County

Math and Science Teachers Award for Excellence in Mathematics and Computer Science Studies– For achievement in mathematics and software studies. This is a tribute to all mathematics and science teaching professionals. Limited to projects in the Senior Division. Award is \$500. Presented anonymously.

Award: S1416, Nitya Mani, Santa Clara County

Plant Cell Biology Award – For scientific achievement in the fields of cell and molecular biology, genomics, bioinformatics, or technology development that will impact our understanding of plant cell biology. Limited to projects in the Senior Division. Award is \$500. Presented by the Center for Plant Cell Biology of the University of California, Riverside.

Award: S1998, Saumya R. Keremane, Riverside County

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Raytheon Junior Achievement Award – For those projects which demonstrate the greatest potential with ability of achieving technological breakthroughs in the six areas of computer science, electrical engineering, materials engineering, mathematics, mechanical engineering, and physics. Limited to projects in the Junior Division. Award is \$500. Presented by the Raytheon Asian Pacific Association (RAPA) – Raytheon Space and Airborne Systems Company.

Award: J0301, Eris D. Albert-Minckler, Los Angeles County

Award: J0906, Raghav Ganesh, Santa Clara County

Award: J1315, Holly M. Jackson, Santa Clara County

Award: J1409, Patrick D. Kao, San Mateo County

Award: J1419, Eric J. Wilson, Santa Barbara County

Award: J1829, Zoe Zawol, Los Angeles County

SCAQMD Air Quality or Climate Change Award – For the best project concerning air quality and/or climate change. One award in each division. Award is \$1500. Presented by the South Coast Air Quality Management District.

Senior Division: S1134, Jennifer J. Yu, Alameda County

Junior Division: J2001, Emily E. Aguilar, Ventura County

Science Teachers Award for Excellence in Electronics and Electromagnetics Studies – For achievement in electronics and electromagnetic studies. Limited to projects in the Junior Division. Award is \$500. Presented anonymously.

Award: J0906, Raghav Ganesh, Santa Clara County

Silicon Boule Award – For distinctive performance in the physical sciences. This award has been presented annually since 1995 and was originally an end piece of an ultrapure monocrystalline silicon boule. Limited to projects in the Junior Division. Award is a TRW custom designed silicon die for the space program which became an enabling technology for the CAT scan. Presented by Dale L. Hall, Senior Engineer Scientist, retired, TRW Space & Electronics.

Award: S0928, Amulya Vadlakonda, Santa Clara County

Southern California BioGENEius Award – For excellence in original research in biotechnology. Limited to projects in the Senior Division. Award is \$500 and an invitation to compete in the International BioGENEius Competition in June 2014 at the Biotechnology Industry Organization (BIO) meeting in San Diego. Presented by the Southern California Biomedical Council.

Award: S0505, the team of Eric C. Chen and Nathan H. Ng, San Diego County

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SPIE Optics & Photonics Award – For the project best demonstrating scientific research and engineering applications of optical, photonic, imaging, and optoelectronic technologies. One award in each division. In the Senior Division, First Place receives \$800, Second Place receives \$500. The Junior Division Award is \$500. Award includes a one year membership in SPIE, and a certificate. Presented by SPIE, the international society for optics and photonics.

Senior Division, First Place: S0527, Emily S. Wang, Santa Clara County

Senior Division, Second Place: S1420, Kalyani Ramadurgam, San Diego County

Junior Division: J1406, Aaron O. Feldman, Los Angeles County

Sushila & Chandi Charan Kar Award – For an outstanding project in the health sciences, especially with humanitarian consequences. Award is \$1000. Presented by the Sheila Kar Health Foundation.

Award: S1207, Kevin K. Lee, Orange County

UCLA Brain Research Institute Award – For outstanding science projects in all areas of neuroscience from molecules to mind. One award in each division. Award is \$500 and a certificate. Presented by the UCLA Brain Research Institute (BRI).

Senior Division: S0422, Pravin Ravishanker, Santa Clara County

Junior Division: J0501, Mythri Ambatipudi, Santa Clara County



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Bone Clones Mammalian Biology Award – For outstanding performance in biology. Limited to projects in the Junior Division. Award is an exact reproduction of a Dire Wolf skull. Presented by Bone Clones Osteological Reproductions Inc.

Award: J1204, Cameron G. Brown, Santa Cruz County

CAPS Science Achievement Award – For the project best illustrating good scientific methodology in a discipline represented by members of CAPS, including physics, chemistry, biological and environmental science, toxics and energy resources. Limited to projects in the Junior Division. Award is \$100 and an plaque. Presented by the California Association of Professional Scientists.

Award: S1102, Albert J. Barrios, Los Angeles County

CCGO Geoscience Award – For an outstanding project in the field of geosciences. One award in each division. Award is \$250. Honorable Mention receives a certificate. Presented by the American Institute of Professional Geologists, California Section, and the California Council of Geoscience Organizations.

Senior Division: S0899, Emily B. Hughes, Riverside County

Junior Division: J0813, Natalie C. White, Fresno County

Honorable Mention: J0801, Katherine N. Bishop, Los Angeles County

Clinical Chemistry Award – For interesting and original projects that impact the future of clinical chemistry. Three awards in each division. Award is \$250 in the Senior Division, \$150 in the Junior Division. Presented by the American Association for Clinical Chemistry, Southern California Section.

Senior Division: S0525, Sriram Somasundaram, Santa Clara County

Senior Division: S0607, Akshay R. Hampapur, Orange County

Senior Division: S1732, Daniel S. Yang, Orange County

Junior Division: J0508, Benjamin C. Liu, Los Angeles County

Junior Division: J0629, Haidyn N. Washburn, Fresno County

Junior Division: J1722, Saachi Jhandi, Butte County

Coastal Science Award – For excellence in coastal science and/or engineering, addressing problems or providing new solutions or technology to coastal and ocean issues. Limited to projects in the Junior Division. Award is \$250 and membership in CSBPA, California Chapter. Presented by the California Shore & Beach Preservation Association.

Award: J0323, Tyler E. Robertson, Fresno County

Hauta Wissmann Foundation Life Sciences Award – For an outstanding biology project. Limited to projects in the Junior Division. Award is an exact osteologic reproduction of a bear skull. Presented by the Hauta Wissmann Foundation.

Award: J1209, Emma R. Curia, San Mateo County

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Plant Cell Biology Award – For scientific achievement in the fields of cell and molecular biology, genomics, bioinformatics, or technology development that will impact our understanding of plant cell biology. Limited to projects in the Senior Division. Award is \$100. Presented by the Center for Plant Cell Biology of the University of California, Riverside.

Award: S0527, Emily S. Wang, Santa Clara County

Plug In America EV Excellence Award – For the best project demonstrating the benefits of plug-in vehicles or advancing the science of vehicle electrification. Award is \$200 in the Senior Division, \$100 in the Junior Division. Presented by Plug In America.

Senior Division: S0310, Amy Z. Dong, Orange County

Junior Division: J0934, Shaya Zarkesh, Santa Clara County

Skulls Unlimited Recognition Award – For outstanding performance in mammalian biology. Three awards will be presented. Limited to projects in the Junior Division. Award is an animal skull and a certificate. Presented by Skulls Unlimited International, Inc.

Award: J1216, the team of Stacy R. Halperin and Michael J. Kerrigan, Orange County

Award: J1223, Bailee A. Poole, Fresno County

Award: J1227, Catherine M. Snook, Nevada County

Society of Petroleum Engineers Superior Technical Achievement Award – For outstanding technical achievement in projects relating to the development of oil and/or gas resources, mechanics, subsurface fluid flow, and production of those or other energy resources through wellbores, or in projects of a technical nature requiring a high degree of independent thinking, which could be applied to the advancement of the field of petroleum engineering research and/or development. First Place is \$200; Second Place is \$100. Award includes a certificate. Presented by the Los Angeles Chapter of the Society of Petroleum Engineers.

First Place: J0609, Anusha Ghosh, Santa Clara County

Second Place: J0807, the team of Matthew A. Perri and Hayden W. Pisano, Kern County

Southern California BioGENEius Award – For excellence in original research in biotechnology. Two awards to be presented in the Senior Division. First Place Award is \$200, Second Place is \$100. Presented by the Southern California Biomedical Council.

First Place: S0620, Shreya S. Ramayya, Los Angeles County

Second Place: S1506, Sara D'Souza, San Diego County

SPIE Optics & Photonics Award – For the project best demonstrating scientific research and engineering applications of optical, photonic, imaging, and optoelectronic technologies. One award in each division. The award in the Senior Division is \$300; in the Junior Division it is \$200. Award includes one year membership in SPIE, and a certificate. Presented by SPIE, the international society for optics and photonics.

Senior Division: S0324, Jason S. Provol, San Diego County

Junior Division: J1809, Michele L. Eggleston, San Diego County

Junior Division: J1815, Thomas M. Karpishin, San Mateo County

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UC Irvine, Earth System Science Award – For the project best demonstrating outstanding achievement in the study of Earth System Science. Limited to projects in the Senior Division. Award is \$250. Presented by the University of California, Irvine, Department of Earth System Science.

Award: S0805, Karen V. Pham, Orange County

UCLA Brain Research Institute Award – For outstanding science projects in all areas of neuroscience from molecules to mind. Two place awards in each division. First Place award is \$100, and Second Place award is \$50. Presented by the UCLA Brain Research Institute (BRI).

Senior Division, First Place: S0518, Natalie Ng, Santa Clara County

Senior Division, Second Place: S0521, Swetha Revanur, Santa Clara County

Junior Division, First Place: J2116, Sara O. Vargas, San Diego County

Junior Division, Second Place: J0731, Sebastian L. Roeder-Hensley, Santa Cruz County