



California Science Center
CALIFORNIA STATE SCIENCE FAIR
2012 Special Awards

Alfarata Walley Award for Excellence in Electronics and Electromagnetics

Studies – For achievement in electronics and electromagnetic studies. Given in recognition of Mrs. Walley, a dedicated elementary school teacher for over 40 years who passed away in 2010. Her many students will be pleased that she has been remembered for her devotion to her profession. Limited to projects in the Junior Division. Award is \$500. Presented anonymously.

Award: J0936, Maya Varma, Santa Clara County

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 \$1,000 in US Savings Bonds. Presented by the California Association of Pest Control Advisors.

Senior Division: S1999, Moniyka Sachar, Alameda County

Junior Division: J1903, Jacob C. Birks, Kern County

CAT Scan R&D 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: J0936, Maya Varma, Santa Clara 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: S1110, Ailis C. Dooner, Monterey County

LA BioMed Award for Excellence in Molecular Biology – For achievement in the field of Biochemistry/ Molecular Biology. Award is \$500. Presented by the Los Angeles Biomedical Research Institute at Harbor-UCLA Medical Center (LA BioMed).

Award: S0505, Nikhil Buduma, Santa Clara County

Award: S0521, Jiho Park, Orange County

Math Teachers Award for Excellence in Mathematics and Computer Science

Studies – For achievement in mathematics and software studies. Given in recognition of students in the Webster University Graduate School of Business, many of whom are active Air Force personnel soon to be deployed to Afghanistan. Limited to projects in the Senior Division. Award is \$500. Presented anonymously.

Award: S1422, Eric Sauer, Contra Costa 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 \$500. Presented by the Center for Plant Cell Biology of the University of California, Riverside.

Award: S0506, Eric S. Chen, San Diego County

Raytheon Junior Achievement Award – For those projects which demonstrate the greatest potential with ability of achieving technological breakthroughs in mathematics, physics, and engineering. 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: J0311, Christopher D. Isozaki, Los Angeles County

Award: J0915, Julie A. Fukunaga, San Joaquin County

Award: J1314, Rami Lieberman, San Diego County

Award: J1415, Anna J. Lou, Orange County

Award: J1418, Ken Noh, Santa Clara County

Award: J1811, Holly M. Jackson, Santa Clara 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 and an invitation to present the project at the AQMD's conference, "A World We Can Change." Presented by the South Coast Air Quality Management District.

Senior Division: S1199, Gabriel J. Guerra, Fresno County

Junior Division: J1024, the team of Attie Sit and Echo Sit, San Joaquin 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. Award is \$1000, one year membership in SPIE, and a certificate. Presented by SPIE, the international society for optics and photonics.

Senior Division: S1402, the team of Christine Chang and Joseph Chang, Santa Clara County

Honorable Mention: S0535, Kelly X. Zhang, Alameda County

Honorable Mention: S1408, the team of William C. Hang and Frank Liu Su, San Diego County

Junior Division: J0611, the team of Ethan B. Feiber, Jared J. Park, and Kaveh Pezeshki, San Mateo County

Honorable Mention: J1310, Brian A. Friedenber, San Diego County

Sushila & Chandi Charan Kar Award – For an outstanding project in the health sciences, especially with humanitarian consequences. Award is \$500. Presented by the Sheila Kar Health Foundation.

Award: S1599, the team of Neera M. Shah and Nehaly M. Shah, Riverside County

Award: S1724, Hari D. Patel, Los Angeles County

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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: S0532, Anna T. Thomas, Santa Clara County

Junior Division: J0719, Jonah L. Kohn, San Diego County



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2012 Recognition Awards

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

Award: J1298, Steven S. Higginbotham, Tulare 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. Award is \$100 and an plaque. Presented by the California Association of Professional Scientists.

Award: J0615, Anjini Karthik, Santa Clara County

Honorable Mention: S1101, Aamna J. Abbasi, Orange County

Honorable Mention: J1703, Austin P. Ambrose, Santa Barbara County

Honorable Mention: J1725, Akshay K. Srivastava, San Bernardino County

CCGO Geoscience Award – For an outstanding project in the field of geosciences. Three awards in each division. Award is \$250. Presented by the American Institute of Professional Geologists, California Section, and the California Council of Geoscience Organizations.

Senior Division: S0804, Rose L. Leopold, Santa Cruz County

Junior Division: J0803, Matthew J. Chaffee, Kern County

Clinical Chemistry Award – For interesting and original projects that impact the future of clinical chemistry. Three awards in each division. Senior Division award is \$200, Junior Division award is \$100. Presented by the American Association for Clinical Chemistry, Southern California Section.

Senior Division: S0531, Tanay Tandon, Santa Clara County

Senior Division: S0608, Seowoo Choi, Los Angeles County

Senior Division: S1714, Shu Hee Kim, Los Angeles County

Junior Division: J0524, Arpita Singhal, Santa Clara County

Junior Division: J0615, Anjini Karthik, Santa Clara County

Junior Division: J1724, Anin Sayana, Santa Clara 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. Award is \$250 and membership in CSBPA, California Chapter. Presented by the California Shore & Beach Preservation Association.

Award: J0314, Jenna M. Mazza, Monterey County

Hauta Wissmann Foundation Life Sciences Award – For an outstanding biology project. Limited to the Junior Division. Award is an exact osteologic reproduction of an American Black Bear skull. Presented by the Hauta Wissmann Foundation.

Award: J1207, the team of Jessica M. Cronin and Alicia N. Hoxie, Mendocino 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. Award is \$100. Presented by the Center for Plant Cell Biology of the University of California, Riverside.

Award: S0521, Jiho Park, Orange 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. One award in each age division. Award is \$300 and a certificate. Presented by the Los Angeles Chapter of the Society of Petroleum Engineers.

Senior Division: S0618, Irfan S. Habib, Kern County

Junior Division: J0623, Callista E. Schoettmer, Kern 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. Award is \$250, one year membership in SPIE, and a certificate. Presented by SPIE, the international society for optics and photonics.

Senior Division: S0908, Neeka A. Mashouf, Marin County

Junior Division: J1818, Patrick L. Prestridge, Ventura County

Stockholm Junior Water Prize – For a superior water related project. Award is a student membership and a certificate. Presented by the California Water Environment Association.

Award: S1718, Karley J. Lassley, Fresno County

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

Award: S1117, Corlin L. Palmer, San Diego 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: S0507, Sara N. D'Souza, San Diego County

Senior Division, Second Place: S1215, Adam Villalpando, Los Angeles County

Junior Division, First Place: J0729, Caitlin E. Takeda, Ventura County

Junior Division, Second Place: J0732, Sophia A. Walker, Orange County