



California Science Center
CALIFORNIA STATE SCIENCE FAIR
2004 Special Awards

ZACA Award for Practical Application in Science – \$5,000 award presented to the senior level project which best considers and explains its practical application. Sponsored by ZACA, Inc.

Award: Annick-Marie S. Jordan, S0513, Los Angeles County

John D. Isaacs Scholarship – \$12,000 scholarship, allocated over a four-year period, recognizes excellence in marine research by high school juniors and seniors while encouraging students to continue their education at California's colleges and universities.

Scholarship: Aaron S. Goldin, S0709, San Diego County

California 4-H Service Through Science Award – \$1000 award given to the project that best uses science to address a pressing community need and that embraces the four Hs: Head, Heart, Hands, & Health. Sponsored by Wells Fargo and Five Star Legal.

Award: Sha Reese M. Granville, S1309, Los Angeles County

Cardinal and Gold Award of Excellence – \$1000 awarded to an outstanding woman scientist from a deserving neighborhood. Sponsored by an appreciative alumnus of the University of Southern California.

Award: Phung V. Luong, S0416, Los Angeles County

CEPCEB Plant Cell Biology Award – \$1000 award acknowledges scientific achievement in the fields of cell and molecular biology, genomics, bioinformatics, or technology development. Presented by the Center for Plant Cell Biology at the University of California at Riverside.

Award: Moriah K. Nachbaur, S1611, San Mateo County

MLIM Award for Materials Sciences Study – \$1000 award given in the Senior Division for a project increasing the understanding of phenomena and properties important to materials that will meet the needs of aerospace and related industries.

Award: Cody J. Ross, J1137, Orange County

MUSES Harriet Luckman Memorial Award – \$1,000 award given to a young woman of achievement in senior high school science or math, in honor of a remarkable woman of achievement who was one of the founding members and benefactors of THE MUSES, the California Science Center, and California Science Center Foundation.

Award: Caryann M. Milne, S1314, Santa Cruz County

MUSES Special Award – \$1,000 award given to a young woman of achievement in junior high school science or math. Sponsored by THE MUSES, dedicating more than 40 years of volunteer service to promoting science and math education through the California Science Center Foundation.

Award: Brenna Jean Cherry, J1605, San Luis Obispo County

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Silicon Boule Award – Awarded continuously since 1995, this award acknowledges distinctive performance in the physical sciences. The award is the student's choice of an ultrapure monocrystalline end piece of an ingot of the element silicon, or a laptop computer. Presented by Dale L. Hall, Senior Engineer with Northrop Grumman Space Technology, and MEMC Electronic Materials, Inc.

Senior Engineer Scientist: Aaron S. Goldin, S0709, San Diego County

Junior Engineer Physicist: Zachary R. Schmidt, J1531, Santa Cruz County

SPIE Optics & Photonics Award – \$1000 award given for excellence in optics and photonics research. Sponsored by the International Society for Optical Engineering.

Award: Konstantin Y. Batygin, S1501, Santa Clara County



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American Institute of Professional Geologists Geology Award – \$250 award to an outstanding project in the field of geosciences. Presented by the California Council of Geoscience Organizations.

Senior Division: Alan D. Foreman, S0604, Orange County

Junior Division: The team of Jena M. Bailey and Erin K. Page, J0603, Los Angeles County

Association for Women Geoscientists – \$250 savings bond to the best geoscience project by a young woman in the senior division

Award: Lauren E. Fukumoto, S0809, Los Angeles County

California Association of Professional Scientists — \$100 savings bond and plaque. Grades 7-11 only. Presented to the project best illustrating good scientific methodology in a discipline represented by members of CAPS. Winner may then compete in the CAPS Outstanding Young Scientist competition.

Award: David I. Marash-Whitman, J0917, Santa Clara County

California Shore & Beach Preservation Association Award – Two awards (\$500 and \$250) to projects demonstrating an understanding or unique curiosity for coastal processes either physical or biological. Award also includes student membership in ASBPA/CSBPA.

Senior Division: Aaron S. Goldin, S0709, San Diego County

Junior Division: Swati Yanamadala, J0930, Los Angeles County

Earth Systems Science Award – Award presented to the a student in grades 9-11 best demonstrating outstanding achievement in the study of Earth Systems Science.

Award: Yu (Joy) Sun, J1331, Santa Barbara County

Health Physics Society, Southern California Chapter – \$100 award to the projects which best demonstrate and/or observe the use or effects of ionizing (*e.g.* x-rays) or non-ionizing (*e.g.* UV) radiation. First place project and the project's advisor each receive \$100; \$25 awards to honorable mentions.

First Place, Senior Division: Mariah K. Erlick, S1307, Mendocino County

First Place, Junior Division: Kristin N. Miller, J1420, Ventura County

Honorable Mention: The team of Sabina R. Bera, Peter Joseph M. Edpao, and Parth R. Shah, S0403, Riverside County

Honorable Mention: Lauren E, Fukumoto, S0809, Los Angeles County

Honorable Mention: William C. Piper, J0923, Kern County

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Society of Petroleum Engineers, LA Basin Section – \$250 awards 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 projects of a technical nature which could be applied to the advancement of the field of petroleum engineering research and/or development.

Award: Travis J. Kilmer, S0606, Mendocino County

Award: Anson F. Stewart, S0110, Orange County

Award: Emily L. Denton, J1511, San Mateo County

SPIE Optics & Photonics Award – \$250 award given in each division for excellence in optics and photonics research. Sponsored by the International Society for Optical Engineering.

Senior Division: Lara A. Injeyan, S1509, Los Angeles County

Junior Division: Andrew L. Zellman, J1534, Mendocino County

U.S. Fish & Wildlife Service – One official certificate presented to the project deemed useful in conserving California's biological diversity and ecological integrity. Sponsored by the U.S. Fish & Wildlife Service.

Award: The team of Ann T. Nguyen and Annie N. Tat, S1612, Santa Clara County