

[Science Opens Doors to Maui Student: Honolulu Star-Bulletin, June 6, 2002](#)

[Hawaii Teens Take Honors at International Science Fair: Honolulu Advertiser, May 30, 2002](#)

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Contact: Shiyana Thenabadu, Director
Hawaii State Science and Engineering Fair
Phone: (808) 956-7930

Hawaii Students Win Awards at the International Science and Engineering Fair

Sixteen Hawaii finalists competed against 1222 of the top student scientists from 45 states and 39 countries, at the Intel International Science and Engineering Fair (ISEF), held May 11-18, in Louisville, KY. The Hawaii students brought home nine awards totaling \$11,000. They also brought back priceless memories of a “marvelous adventure.”

Intel ISEF had three different award ceremonies: the Special Awards, Government and Scholarship Awards and the Intel ISEF Grand Awards. Below are the awards received by the Hawaii students.

Special Awards

American Astronomical Society and the Astronomical Society of the Pacific:

First place award of a \$5000 scholarship to a college of winner’s choice. In addition, each student’s school science department will receive \$1000.

Matthew Douglas Apau Jachowski, 16, Maui High School, Kahului
Effect of Observation Timing on Initial Orbit Determination Accuracy

American Association for Artificial Intelligence: Award of \$1000 for the best projects in computer science with an artificial intelligence component. In addition, winners and their schools will receive a one-year membership in the American Association for Artificial Intelligence and a subscription to AI Magazine

Kimberly Elise Reinhold, 14, St Joseph Junior and Senior High School, Hilo
Artificial Neural Networks: Mechanisms of Pattern Recognition and Learning

American Society of Agronomy: First place award of \$1000 in crops. In addition, a one-year subscription to the *Journal of Natural Resources and Life Sciences* is given to the libraries of the winners’ schools.

Richard Jean Rodrick, 16, Kapa`a High School, Kapa`a
*Analysis of a Possible Aphid Toxin in Zuuiki Taro (*Locasia gigantea*), Year 2: Toxin Isolation and Trait Transference via Inter-specific Hybridization*

American Society of Pharmacognosy: Award of \$500 for projects involving the study of natural products.

Kiani Anela Jeniah Arkus, 16, Kamehameha School, Honolulu
Hala and HELA: Inhibitory Effect of Pandanus odoratissimus on the Growth of Human Cervical Cancer Cells

Government and Industry Awards and College Scholarships

National Aeronautics and Space Administration: Honorable Mention for Students under 16

Kimberly Elise Reinhold, 14, St Joseph Junior and Senior High School, Hilo
Artificial Neural Networks: Mechanisms of Pattern Recognition and Learning

DuPont Excellence in Research Award \$500

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Intel ISEF Grand Awards

Third place award, \$1000, in Earth and Space Science (Four third place awards were given out)

Matthew Douglas Apau Jachowski, 16, Maui High School, Kahului
Effect of Observation Timing on Initial Orbit Determination Accuracy

Fourth place award, \$500, in Biochemistry (Seven fourth place awards were given out)

Liang (Charlie) Wang, 17, Waiakea High School, Hilo.
Will Excessive Concentrations of Antioxidants Prevent Programmed Cell Death in Caenorhabditis elegans?

Fourth place award, \$500, in Microbiology (Seven fourth place awards were given out)

Yu-Tzu (Debbie) Liu, 17, St Andrew's Priory, Honolulu
Annotating and Analyzing 140Kbp Region of Newly Identified Bacteria

The week long ISEF wasn't just about competing. It was also about meeting peers, networking with premier scientists and industry leaders who serve as judges, shaking the hands of Nobel Laureates, chatting with the original Rocket Boys (featured in the movie, October Sky), touring Kentucky including a trip to Six Flags Kentucky Kingdom and Mammoth Caves National Park.

Kimberly Reinhold, the winner of the State Science Fair said her favorite part of ISEF was interacting with so many people who find science as exhilarating as she does. "We discussed a variety of topics with people from all over the world. We cheered for each other, we danced with each other, we conquered roller coasters together, and we laughed with each other. The camaraderie and shared interests of the ISEF participants made for a great social atmosphere."

"Although I love science for its own sake, competitions like ISEF are inspiring celebrations of people who further our knowledge about our universe and the value of their work. I am so thankful for this marvelous adventure," said Reinhold.

The Hawaii students who competed at the ISEF were selected as the top winner(s) of the districts or state science fair. Students enter the science fair program by competing at a school science fair, then progressing to a district or state science fair. The top winners of the affiliated districts and state science fair are recommended for the ISEF competition.

The Hawaii State Science and Engineering Fair is sponsored by the Hawaii Academy of Science in partnership with the Hawaii Department of Education and the College of Education at the University of Hawaii at Manoa. For more information on the science fair program, check the Academy web site at www.hawaii.edu/acadsci, or call the Academy's education program's office at (808) 956-7930.