

Hawai'i Academy of Science
1776 University Ave. UA4-4
Honolulu, HI 96822
Phone: 808-956-7930 • Fax: 808-956-5183
Online: <http://hawaiiacademyofscience.org>
Email: info@hawaiiacademyofscience.org

**57th Hawai'i State Science & Engineering Fair
March 31 - April 2, 2014 at the Hawai'i Convention Center
Top Division Winners**

SENIOR DIVISION:

1st Place

STEPHANIE H SPEAR, Grade 11, Kaiser High School: "**Rocks of the Rainbow: Asteroid Classification Using SDSS Filters**"

2nd Place

MIKIKO TAKATO, Grade 12, Hilo High School: **Experimental Investigation of Segregation Mechanisms in Horizontally Shaken Granular Media**

3rd Place

REID AKANA, Grade 12, Kamehameha School, Kapalama: A Novel Cell Cycle Analysis Protocol Utilizing High Content Screening in Adherent Cell Line HS-27

Honorable Mentions:

KEANU DEAN PINNER, Grade 10, Hilo High School: **The Toxicity of Kavalactones and Flavokavain A/B from Different Plant Areas of Kava on HepG2 Liver Cells**

BRANDON KINARD, Grade 11, Mililani High School: **Engineering a Novel Autonomous Wheelchair System for the Visually-Impaired and Quadriplegic Individuals**

JORDAN FERNANDEZ, Grade 12, Kapolei High School: **Liquid Organic Hydrogen Carriers for Hydrogen Fuel Storage: Heterocyclic N and O Compound Dehydrogenation Utilizing the Iridium PCP Pincer Catalyst**

JUNIOR DIVISION:

1st Place

SAMUEL CADOTTE, Grade 7, Kailua Intermediate: **Using RFID to Improve Medication Usage**

2nd Place

JUNE H PARK, Grade 8, St. Andrew's Priory: **Comparing the Effectiveness of Various Species of Invasive Algae on Biofuel Production**

3rd Place

JONATHAN SPANGLER-SAKATA, Grade 7, Island Pacific Academy: **Is Your dog Not Active Because of its Pain?**

Honorable Mentions:

TYLER R. MARUNO, Grade 7, Stevenson Middle: **Keeping It Cool: Testing Insulation Materials for Retention of Temperature**

BRIANNA N RYAN, Grade 6, Home School - Kauai: **Galileo Thermometer, How Does It Work?**

CELESTE M JONGENELEN, Grade 8, Home School -Maui: **Disk-O Stars Part 2**