

54th Hawai'i State Science and Engineering Fair – Winner List

**54th Hawai'i State Science and Engineering Fair
March 28-30, 2011 at the Hawai'i Convention Center
Top Division Winners**

SENIOR RESEARCH:

1st Place:

Kang Ying Liu, St. Andrew's Priory: "New Triangle Centers Associated with a Triad of Simulated Circumcircles"

Teacher Award: Michael Grech, St. Andrew's Priory

2nd Place:

Michael O. Flynn, Maui High School: "Measuring the Passage of Time for Bodies at Relativistic Speeds with Dynamic Accelerations"

Teacher Award: Keith Imada, Maui High School

3rd Place (and BEST TEAM):

Shawnalyn Sunagawa & Sara Middendorf, St. Andrew's Priory: "PAWT The Greener Future: An Innovative Approach to Engineering a Bladeless Wind Turbine"

Teacher Award: Michael Grech, St. Andrew's Priory

Honorable Mention Awards:

Sarah Tamashiro & Lindsay Fujimoto, St. Andrew's Priory: "High Value Fungal Protein Cultivated in Five Carbon Biofuel Liquors"

Shalila de Bourmont, Hilo High School: "Anti-Cancer Properties of Fungal Endophytes Derived from *Clermontia parviflora*, a Native Hawaiian Plant"

**Meghan Fujimoto, Alyssa Braun & Ashley Bonilla, Kauai High School:
"Harvesting Electricity Through the Installation of a Cost Efficient Mini Hydro Turbine into the Existing Domestic Water Supply"**

JUNIOR RESEARCH:

1st Place:

Matthew Sturm, Iao Intermediate: "Frictionless Floating Train Part II"

Teacher Award: Cory Lee, Iao Intermediate

2nd Place:

Christopher James Lindsay, Iolani School: "Freeze or Fry - Atmospheric Temperature Profiles from GPS Radio Occultations"

Teacher Award: Mark Lindsay, Iolani School

3rd Place:

Stephanie Spear, Niu Valley Intermediate: "Echoes of Asteroids"

Teacher Award: Clyde Kobashigawa, Niu Valley Intermediate

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Honorable Mention Awards:

Cody Lambrecht, Hualalai Academy: “**Nipped, Hammered or Soaked, Which Stimulant Works Best?**”

Davy Ragland, Parker School: “**Artificial Intelligence: Predator vs Prey**”

Maia Ito, St. Andrew's Priory: “**The Effect of Various Water Pollutants on Daphnia Heart Rate and Swim Rate**”

JUNIOR DISPLAY:

1st Place:

Nicole James, Highlands Intermediate: “**Cheaper Local Fish Food**”
Teacher Award: Kathy Lin, Highlands Intermediate

2nd Place:

Keli Tokunaga & Janel Okamura, Iolani School: “**Ovarian Cancer**”
Teacher Award: Kathy Lin, Highlands Intermediate

3rd Place:

Katriel Wong, Niu Valley Intermediate: “**Turning a World Inside Out**”
Teacher Award: Darrah Brown, Niu Valley Intermediate

Honorable Mention Awards:

Andy Labaczewski, Island Pacific Academy: “**How Wind Turbines Work**”

Zoey Fox, Niu Valley Intermediate: “**Who Are Star People?**”

Joseph Stewart, St. Anthony Parish, Kailua: “**Can You See Me?**”

HAWAI'I ACADEMY OF SCIENCE

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