

2015 Honolulu District Science and Engineering Fair Senior Research Division Awards

Overall Awards:

1st Place

Rajeev Jha, Roosevelt High School, Grade 11
Biophysical Characteristics of Arc: Insights into Learning and Memory

2nd Place

Roshani Jha, Roosevelt High School, Grade 10
Reducing the Reliance of Hawaii's Farmers on Imported Fertilizer

3rd Place

Hui Shan Au & Baoxin Liang, McKinley High School, Grade 11
Go Green Mushrooms!

Honorable Mentions

Hironu Ryan Rose & Trisha-Mei Ramelb, McKinley High School, Grade 10
The Effect of Different Formations of Solar Panels on Energy Produced

Oscar Nguyen, University Laboratory School, Grade 10
The Effectiveness of Natural Antimicrobials at Minimizing Bacterial Cultures from Raw Meat

Mihn Thu Nguyen, Farrington High School, Grade 11
Deciphering Immune regulatory mechanism for the immune control of Human viral infections

Priscilla Hsu, Kalani High School, Grade 9
Solar Phenomena Correlations

James Vincent Ines & Zachary Joel Caldevera, Farrington High School, Grade 12
Finding an Algorithm for the Integration of Radical Functions

Best of Category Awards:

Animal Sciences

Rachel Dela Cruz, Farrington High School, Grade 11
Coral Bacterial Growth Rates at Various Temperature

Behavioral and Social Sciences

Faye Laforteza, Kaimuki High School, Grade 11
Intrinsic and Extrinsic Motivation

Biochemistry

Rajeev Jha, Roosevelt High School, Grade 11
Biophysical Characteristics of Arc: Insights into Learning and Memory

Cellular and Molecular Biology

Cherrysse Ulsa, Farrington High School, Grade 11
Characterization of alpha synuclein fibril formation in live cells

Chemistry

Matthew Dufale, Farrington High School, Grade 10
Characterization of Mutations in the Biotin synthase Gene in E. coli

**2015 Honolulu District Science and Engineering Fair
Senior Research Division Awards**

Best of Category Awards: *continued*

Computer Science

Jireh Mendoza & Denmark Famorca, Farrington High School, Grade 12
Observing Random Walk Theory

Earth & Planetary Science

None

Engineering: Electrical & Mechanical

Pamela Siapno & Tomomi Suzuki, McKinley High School, Grade 10
Self-Powered, Solar, Water-Bottle Light Bulb

Engineering: Materials & Bioengineering

None

Energy & Transportation

None

Environmental Management

Roshani Jha, Roosevelt High School, Grade 10
Reducing the Reliance of Hawaii's Farmers on Imported Fertilizer

Environmental Sciences

Hiu Shan Au & Baoxin Liang, McKinley High School, Grade 11
Go Green Mushrooms!

Mathematical Sciences

James Vincent Ines & Zachary Joel Caldevera, Farrington High School, Grade 12
Finding an Algorithm for the Integration of Radical Functions

Medicine & Health Sciences

None

Microbiology

Oscar Nguyen, University Laboratory School, Grade 10
The Effectiveness of Natural Antimicrobials at Minimizing Bacterial Cultures from Raw Meat

Physics & Astronomy

Priscilla Hsu, Kalani High School, Grade 9
Solar Phenomena Correlations

Plant Sciences

Anton Allen, University Laboratory School, Grade 10
Viability of Seeds for Germination After Preservation by Freezing for Various Lengths of Time with Varying Moisture Treatments

2015 Honolulu District Science and Engineering Fair Junior Research Division Awards

Overall Awards:

1st Place

Christopher Nave, Niu Valley Middle School, Grade 7
Superwind

2nd Place

Tryphena Hsu, Niu Valley Middle School, Grade 7
Iron and Phytoplankton

3rd Place

Andrew Gonzalo, Niu Valley Middle School, Grade 8
Where's My Water?

Honorable Mentions

Kylie Kim & Yongyu Tang, Washington Middle School, Grade 8
Investigation into an Organic Feed for Omnivorous Fishes

Eui Jin Song, Niu Valley Middle School, Grade 7
An Antioxidant Per Day Keeps The Browning Away

Jewel Yere & Phoebe Pineda-Abaya, Kalakaua Middle School, Grade 8
What Do You Mean A Happy Song Made You Cry?!?

Best of Category Awards:

Animal Sciences

Kylie Kim & Yongyu Tang, Washington Middle School, Grade 8
Investigation into an Organic Feed for Omnivorous Fishes

Behavioral and Social Sciences

Jewel Yere & Phoebe Pineda-Abaya, Kalakaua Middle School, Grade 8
What Do You Mean A Happy Song Made You Cry?!?

Biochemistry

Eui Jin Song, Niu Valley Middle School, Grade 7
An Antioxidant Per Day Keeps The Browning Away

Cellular and Molecular Biology

None

Chemistry

Anthony Lee, Adam Parrilla & Sharif Tarin, Stevenson Middle School, Grade 8
Rusted Out

Computer Science

Andrew Gonzalo, Niu Valley Middle School, Grade 8
Where's My Water?

**2015 Honolulu District Science and Engineering Fair
Junior Research Division Awards**

Best of Category Awards: *continued*

Earth & Planetary Science

Emelie Ogata-Tambua & RJ Villa, Kalakaua Middle School, Grade 8
HI Tide

Engineering: Electrical & Mechanical

Christopher Nave, Niu Valley Middle School, Grade 7
Superwind

Engineering: Materials & Bioengineering

Tyler Maruno, Stevenson Middle School, Grade 7
Menacing Microwaves: Examining the Effects of Electromagnetic Radiation on an Array of Materials

Energy & Transportation

Christian McCormick & Hunter Valdez, Washington Middle School, Grade 8
Algae Oil Eaters

Environmental Management

None

Environmental Sciences

Reychell Ann Cacpal, Ve'a Abadilla & Janna Mae Rabang, Dole Middle School, Grade 8
Unseen Quality

Mathematical Sciences

Tracee Nguyen & Jason Nguyen, Kaimuki Middle School, Grade 6
Herbs Can Do Math Too

Medicine & Health Sciences

Doren Santoki, Niu Valley Middle School, Grade 7
Got Fat, Get Cooking

Microbiology

Tryphena Hsu, Niu Valley Middle School, Grade 7
Iron and Phytoplankton

Physics & Astronomy

Rachel Groham, Niu Valley Middle School, Grade 7
Measuring the Moon's Regolith with a Small Radio Telescope

Emily Kang, Stevenson Middle School, Grade 8
Should I Wear a Black Shirt or a White Shirt?

Plant Sciences

Kai Van Fossen, Niu Valley Middle School, Grade 7
CO₂ Consumption Rates for 5 Hawaiian Plant Species

**2015 Honolulu District Science and Engineering Fair
Junior Display Division Awards**

Overall Awards:

1st Place

Cameron Enomoto, Niu Valley Middle School, Grade 6
Ocean Acidification: An Effect of Increased Atmospheric Carbon Dioxide

2nd Place

Krista Shoda & Ka Lam (Kelly) Leung, Kawanānakoā Middle School, Grade 8
Bugs or Bones

3rd Place

Aleeyah Lemons, Kaimuki Middle School, Grade 7
3 Cheers for Energy

Honorable Mentions

None

**2015 Honolulu District Science and Engineering Fair
Art Contest Awards**

1st Place

Taylor Hunt, Niu Valley Middle School, Grade 8

2nd Place

Mary Antonette Reyes, Kalakaua Middle School, Grade 6

3rd Place

Indah Holmberg, Stevenson Middle School, Grade 8

Honorable Mentions

Rollyn Mae Ramca, Kalakaua Middle School, Grade 6

Kainalu Vianzos, Niu Valley Middle School, Grade 8