

**63rd Hawaii State Science & Engineering Fair
May 3, 2020**

BEST IN CATEGORY (JR Division)

ANIMAL SCIENCES (ANIM)

1st Place: #403 – Beatrice Kim-Lee, Waiakea Intermediate School

Title: The Effectiveness of Trimedlure and Methyl Eugenol Lure on Mediterranean and Oriental Fruit Flies

2nd Place: #401 – Gabriela Ewart, Kawananakoa Middle School

Title: Where's the Worms? - Angiostrongylus Cantonensis in Achatina Fulica

3rd Place: #409 – Avery Burgoyne, Moanalua Middle School

Title: Not Your Average Doggy Breath

BEHAVIORAL & SOCIAL SCIENCES (BEHA)

1st Place: #418 - Cassidy Pong, Pearl Harbor Christian Academy

Title: The Sound of Music – A Music Brain Connection

2nd Place: #424 – Raina Young, Niu Valley Middle School

Title: Do You Have Happy Genes?

3rd Place: #420 – Geanelle Dayla Ramirez, Moanalua Middle School

Title: Colors of Relaxation

BIOCHEMISTRY (BCHM)

1st Place #427 – Kaitlyn Joyce Requillo and Merydhol Joy James, Kalakaua Middle School

Title: Unbreakable

2nd Place: #426 – Preston Halsted, Kailua Intermediate School

Title: Too Much, Too Little, and Just Right

3rd Place: #425 – Mateo Browning, Stevenson Middle School

Title: How to Put the Purify in Water

BIOMEDICAL & HEALTH SCIENCES (BMED)

1st Place: #433 – Maile Hunter, Hilo Intermediate School

Title: Staph in Hawaii's Beach Water

2nd Place: #432 – Andrew Delos Santos, Waipahu Intermediate School

Title: Do Cell Phones Radiate Radiation?

3rd Place: #430 – Martin Clapper, Aliamanu Intermediate School

Title: What Does Soda Do to Teeth?

BIOMEDICAL ENGINEERING (ENBM)

1st Place: #435 – Abigail Bumgardner, Stevenson Middle School
Title: AI Detecting Skin Cancer

2nd Place: #436 – Michael Hui, Kaimuki Middle School
Title: Back Saver Backpack

CHEMISTRY (CHEM)

1st Place: #447 – Jennifer Li and Laura Nguyen, Washington Middle School
Title: Drinking Air

2nd Place: #457 – Tokujiro Wada-Goode, Stevenson Middle School
Title: The Truth is Out About Reef Friendly Sunscreen

3rd Place: #439 – Cheydon Agos, Waipahu Intermediate School
Title: Suck It Up!: Observing the Effects of SiO₂ on Freeze Dried Products

EARTH & ENVIRONMENTAL SCIENCES (EAEV)

1st Place: #470 – Shane Kaneshiro, Stevenson Middle School
Title: Essential Nutrients Present in Gray Water

2nd Place: #471 – Justice Kong, Kaycee Kalauokalani, Erin Takimoto, Ahuimanu Elementary School
Title: Zooplankton off the He'eia Coastline

3rd Place: #466 – Grace Fujii, Our Savior Lutheran School
Title: How Does Your Garden Grow?

EMBEDDED SYSTEMS (EBED)

1st Place: #481 – Haylee Ichioka, Hanalani School
Title: Phone Battery Flip Out!

2nd Place: #482 – Kaitlyn Nagata, Washington Middle School
Title: Translating Words into Braille

ENERGY: SUSTAINABLE MATERIALS AND DESIGN (EGSD)

1st Place: #483 – Haeli Baldwin, Hilo Intermediate School
Title: Comparing Homemade and Commercial Microbial Fuel Cells: Generating Electricity from Waste

2nd Place: #486 – Una Milincic, Kaimuki Middle School
Title: Is Your Data Fire Safe?

3rd Place: #488 – Shastine Sirivattha and Kaimipono Khim, Island Pacific Academy
Title: Biomass Energy

ENGINEERING MECHANICS (ENMC)

1st Place: #495 – Lauren Fujikawa, Kailua Intermediate School
Title: Smart Alert

2nd Place: #499 – Joseph Holtzmann, Our Lady of Good Counsel
Title: Strength of Bridges

3rd Place: #505 – Minh Nguyen and Franky Pudja, Washington Middle School
Title: Can it Hold Up?

ENVIRONMENTAL ENGINEERING (ENEV)

1st Place: #517 – Bransen Hatakenaka, Hilo Intermediate School
Title: Solar Desalination: Improvement of a Kit-Based Passive Solar Still Design

2nd Place: #527 – Emily Wagner, Hilo Intermediate School
Title: Testing Different Designs of Stormwater Drainage Filtration Systems to Reduce Plastic Runoff

3rd Place: #523 – Rumaysha Momen and Reanne Nomura, Stevenson Middle School
Title: Degrading the Problem of Plastics

MATERIAL SCIENCES (MATS)

1st Place: #530 – Leo Johnson, Kahuku High & Intermediate School
Title: Manufacturing Surfboard Fins From Recycled Plastic

2nd Place: #529 – Julia Cicatko, Kahuku High & Intermediate School
Title: Sound Sponge

3rd Place: #532 – Max Manibog, Hanalani School
Title: The Slippery Slope

MICROBIOLOGY (MCRO)

1st Place: #540 – Abigail Keith, Waiakea Intermediate School
Title: An Eco-Friendly Solution to a Recalcitrant Agricultural Problem: Using Essential Oils to Control Bacterial Leaf Spot of Thai Basil

2nd Place: #539 – Sage Katahira and Lauren Miller, Kawanakoa Middle School
Title: 1(800)POOP

3rd Place: #542 – Seen Morimoto, Our Savior Lutheran School
Title: Is it Safe to Swim?

PHYSICS & ASTRONOMY (PHYS)

1st Place: #560 – William Meyermann, Island Pacific Academy

Title: The Aerodynamics of Starcraft: Comparing the Drag of Starcraft to Earth Aircraft

2nd Place: #563 – Jed Teagarden, Montessori School of Maui

Title: Understanding Gault

3rd Place: #548 – Brendan Aoki, Hawaii Baptist Academy

Title: Which material is best at blocking alpha and beta ionizing radiation?

PLANT SCIENCES (PLNT)

1st Place: #567 – Darwynn Ayling, Aikahi Elementary School

Title: Hawaii's Plants That Will Save Our Planet

2nd Place: #570 – Brennan Connolly and Faith May, Niu Valley Middle School

Title: Is Gorilla Ogo a No Go?

3rd Place: #576 – Yukari Kobayashi, Waipahu Intermediate School

Title: Different Applications of Plant Sunscreen But Which Works Best?

SYSTEMS SOFTWARE (SOFT)

1st Place: #595 – Henry Shiro, Volcano School of Art and Sciences

Title: A Space Worthy Raspberry Pi

2nd Place: #596 – Ayre Takamoto, Kaimuki Middle School

Title: The Power nAPP

3rd Place: #592 – Jack Dias, Kaimuki Middle School

Title: VegSafe: Decoding Ingredients

TRANSLATIONAL MEDICAL SCIENCES (TMED)

1st Place: #598 – Janice Galicinao, Kalakaua Middle School

Title: Identifying Retinal Scan Abnormalities Using Computer Programming

2nd Place: #597 – Hannah Cheng, Hawaii Baptist Academy

Title: Can small children mistake medicine for candy?

3rd Place: #600 – Alanna Nicole Rillorta, Our Lady of Perpetual Help

Title: Ringing Radiation Do Cell Phones Increase the Risk of Cancer?