



FOR IMMEDIATE RELEASE
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(Barnstorming photos of a previous session at Benjamin Parker Elementary School on Oahu are available for download at <http://bit.ly/2z4ReH7>) Photo credit: Pacific Aviation Museum Pearl Harbor.

Barnstorming Comes To Hawaii Island Schools For The First Time, Courtesy Of Pacific Aviation Museum Pearl Harbor

The FREE STEM outreach education program, allowing students to explore science through flight, will be presented to 6th graders in Hilo, Pahoa and Pahala.

HONOLULU, HI -- More than 500 sixth graders on Hawaii Island will learn about the science behind aviation when members of Pacific Aviation Museum Pearl Harbor's Barnstorming Program travel to Hawaii Island for the first time, October 16-27, 2017. The term "barnstorming" refers to a style of stunt piloting that was performed in the 1920's to showcase pilots' skills and the sturdiness of the planes they flew.

Pacific Aviation Museum's Barnstorming Program was developed in 2008 by staff at the Museum in collaboration with educators and science advisors from University of Hawaii at Manoa, and since its inception, has reached over 26,000 sixth graders in their classrooms on Oahu, Maui, and Kauai. The 90-minute curriculum is aligned to the Hawaii State Content Standards for Grade 6, and uses:

- Table-top experiments where students are introduced to the two most important concepts in the science of aviation – Newton’s Third Law of Motion and Bernoulli’s Principle;
- A portable wind tunnel that allows students to manipulate an airfoil inside a working wind tunnel via remote control. Students see the effects that airflow have on a wing, and how different velocities of the airstream can change a wing’s reaction to their controller inputs. Students discover how scientists and engineers use wind tunnels to design and test objects people use daily, from aircraft and cars, to homes; and
- A P-40 flight simulator that serves as the culmination of the Barnstorming experience, where after learning the basic concepts through table-top experiments and the wind tunnel, students take the controls of a flying machine. The flight simulator allows students to operate the control surfaces (rudder, elevators and ailerons) that they learned about in the initial presentation, and decide what stick or pedal inputs they will need to obtain their desired movements. Student aviators fly the P-40 through several scenarios, including takeoff, landing, basic control familiarization, as well as pursuit and dogfight maneuvers.

Costs incurred to bring the program and equipment to Hawaii Island is being underwritten by a \$5,000 grant from Boeing.

“Aviation plays such an important role in our everyday lives, from an economic and social point of view, to protecting our nation from harm,” said Shauna Tonkin, Director of Education, Pacific Aviation Museum Pearl Harbor. “Our Barnstorming Program is designed to incorporate all elements of science, technology, engineering and mathematics through interesting and hands-on activities that not only help students understand the scientific principles of flight, but also introduces aviation and aeronautical engineering as a viable career. We hope to continue taking this program on the road to students throughout Hawaii. Our ability to do this is based on the generous support we receive from businesses and foundations, such as Boeing.”

Beginning October 16, Pacific Aviation Museum will bring its Barnstorming program to the following schools:

October 16: Ernest Bowen DeSilva Elementary, Hilo

October 17-19: Waiakea Intermediate, Hilo

October 20: Hawaii Academy of Arts & Science, Pahoa

October 23: Ka'u High & Pahala Elementary, Pahala

October 24: Pahoa Intermediate, Pahoa

October 25-27: Waiakea Intermediate, Hilo

On the evening of October 23, Pacific Aviation Museum will also host a free community outreach event at Ka'u High & Pahala Elementary School called Discover Your Future in Aviation (DYFA). Mirrored after the Museum's annual DYFA on Oahu, the event is designed as an interactive fair that provides youth with information and resources related to the aviation and aerospace industries.

With a special emphasis on young women and underserved populations, DYFA's goal is to generate interest and present STEM career opportunities by having exhibitors in the field of aerospace and aviation at the event, coupled with interactive STEM-related activities. The event will also feature keynote speaker Z. Nagin Cox, a NASA Mars Rover engineer who has held leadership and system engineering positions on interplanetary robotic missions including the Galileo mission to Jupiter, the Mars Exploration Rovers, the Kepler exoplanet hunter, InSight, and the Mars Curiosity Rover. In 2015, Asteroid 14061 was named after her by its discoverers.

Pacific Aviation Museum Pearl Harbor is a 501(c) (3) non-profit organization. Its mission is to develop and maintain an internationally recognized aviation museum on Historic Ford Island that educates young and old alike, honors aviators and their support personnel who defended freedom in The Pacific Region, and to preserve Pacific aviation history.

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