

19th annual Astronaut Lacy Veach Day of Discovery

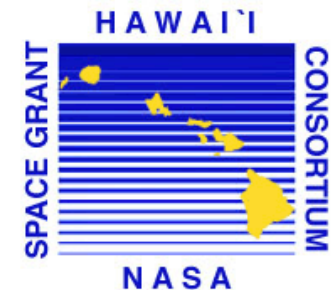
October 24, 2020, 12:00-1:30 pm, Hawaii standard time

a virtual experience...no pre registration needed

Join us.....login: <https://bit.ly/3i71sxp>



- Participate in mini STEM workshops and demonstrations
 - Including NASA Office of STEM Engagement (landing on target, coding to rendezvous with ISS), Hawaii Space Flight Laboratory (rotocopter), Kauai Community College COGS (light painting), Imiloa Astronomy Center (density, convection), National Astronomical Observatory of Japan (galaxy cruise), UH College of Engineering (balloon rocket car, center of gravity), Hawaii Science Teachers Association (polymer bouncing ball, elephant toothpaste), Hawaiian Electric (building an air battery), JPL Solar System Ambassador (Cartesian divers), Oceanit (electrolysis)
- Be inspired by explorers, innovators in mini keynotes and welcome messages
 - Including Astronaut Chris Cassidy (from the space station), Nainoa Thompson, Polynesian Voyaging Society, Astronaut Bill Shepherd (crew member with Lacy), family of Lacy Veach, sponsor, Hawaiian Electric, Astronaut Stan Love, Educator Astronaut Joe Acaba
- Learn about Hawaii's contribution to the STEM work force via "ads"
 - Including highlighting Hawaii past and present residents
- Learn how to register (first come, first serve) for one of 50 Hardware Science STEM Challenge kits and compete for the best submitted video.
- Participate (open to children and adults) in a "galaxy treasure hunt" for answers from the "ads" and workshops ... entries qualify for invitations to join later in a virtual live tour of museums, laboratories, workshops in November and December 2020. Link to questions available at the beginning of the program.
- For further information or for any questions, email: art@higp.hawaii.edu (<http://www.spacegrant.hawaii.edu/>)

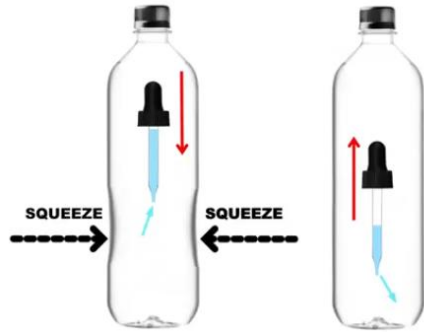




NASA's Office of STEM Engagement

"We immerse students in NASA's work, enhance STEM literacy, and inspire the next generation to explore"

INSPIRE • ENGAGE • EDUCATE • EMPLOY
The Next Generation of Explorers



EXPLORE
MOON to MARS

Katie Livingood
Education Coordinator
Office of STEM Engagement
NASA's Johnson Space Center

Demonstration



6th Trial Run



GALAXY CRUISE:
Your Galactic Journey

NAOJ Citizen Science Project

GALAXY
CRUISE

Kumiko Usuda-Sato
National Astronomical Observatory of Japan (NAOJ)

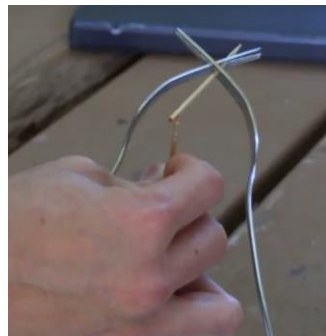
COGS
an interactive lesson on
LIGHT PAINTING



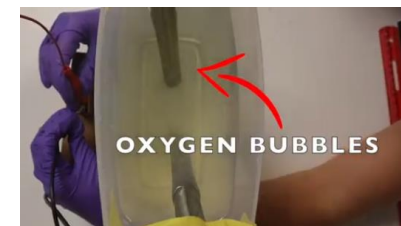
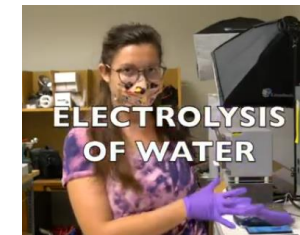
Chemical Reactions
with
The Hawaii Science Teachers Association



College of
ENGINEERING
UNIVERSITY OF HAWAII AT MANOA



oceanit
innovation through engineering & scientific excellence



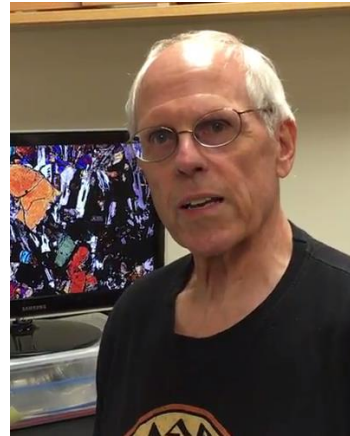
Astronaut Lacy Veach Day Galaxy Treasure Hunt answers provided by



Emily Peavy
University of Hawai'i Hilo
Astronomy Educator
ʻImiloa Astronomy Center



Matt Sakumoto
Iolani School, Honolulu
Medical Doctor
Circle Medical,
San Francisco



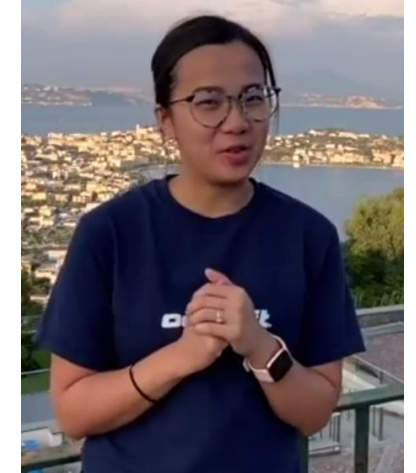
G. Jeffrey Taylor
Planetary Geologist
Hawai'i Institute of
Geophysics and
Planetology,
University of Hawaii



Kumiko Usuda
Astronomer
National
Astronomical
Observatories of
Japan



Devin Chu
Hilo High School
Post Doc, Astronomy
and Astrophysics
University of California
Los Angeles



Sarah Tran Leony
University of Oklahoma
Electrical and
Electronics Engineer
Oceanit



Nolan Kamitaki
Waiakea High School, Hilo
Human Geneticist
Harvard Medical School



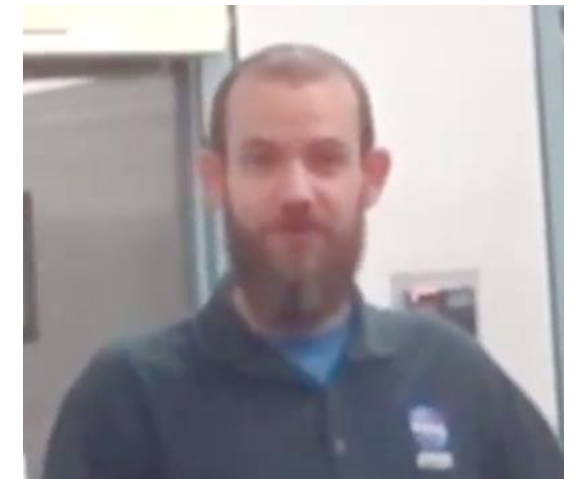
Frances Zhu
Aerospace Engineer/Robotist
Hawaii Institute of Geophysics
And Planetology



Eisha Tyler
Waiakea High School, Hilo
Electrical Engineer
NASA Jet Propulsion Laboratory



Adria Fung
Sacred Hearts Academy,
Honolulu
Robotics Engineering
St. Louis School



Ben Honey
Hawaii Preparatory Academy
Aerospace Engineer
Flight Controller/Space Station
NASA Johnson Space Center



TUMBLER Challenge

ENTER TO
WIN A
\$50
GIFT CARD!

ARE YOU READY FOR THE CHALLENGE?

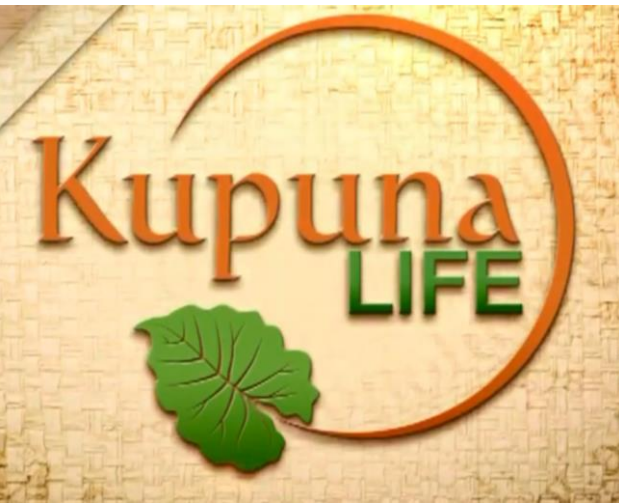
Hardware Science is proud to host the HS Tumbler Challenge at Lacy Veach Day 2020! Participants will assemble the HS Tumbler and create a video communicating the project to the audience.

Register for your FREE kit
starting Saturday, October 24, 2020

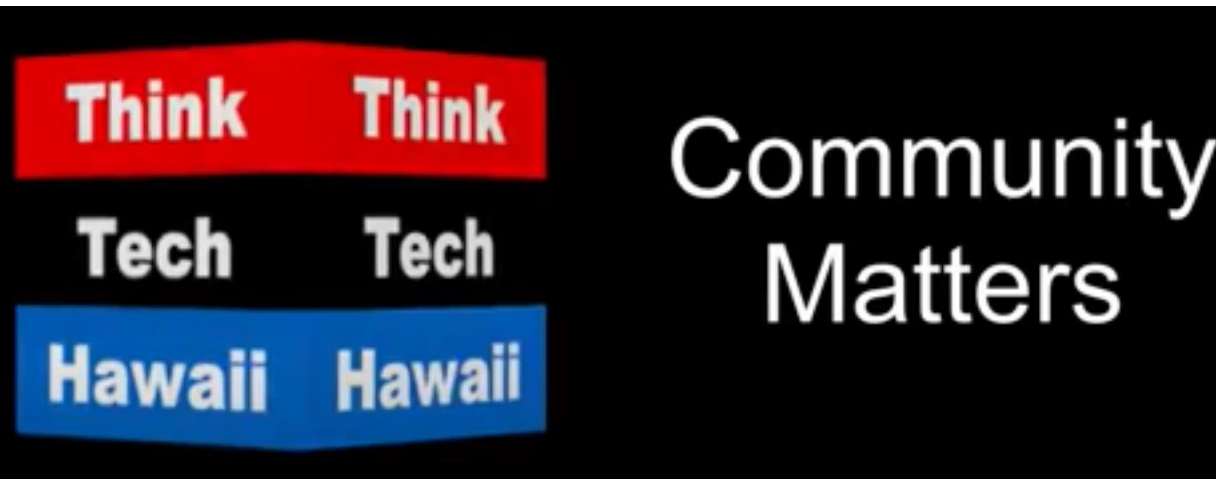
Enter to win a \$50 Gift Card to Ben Franklin Crafts or Ace Hardware. Challenge is open to grades K-8. Limited to the first 50 sign-ups. One kit per person.

Create a 60 second video communicating the project and key terms GRAVITY, ANGLE, and MOTION. Upload to Instagram, tagging @hardwaresciencehi and add #veachday Or submit your entry via email to melanie.ho@hmstores.com

Virtual Astronaut Lacy Veach Day



<https://www.youtube.com/watch?v=l5KNdspAs6k>



<https://www.youtube.com/watch?v=wsTL1iG8pWc>