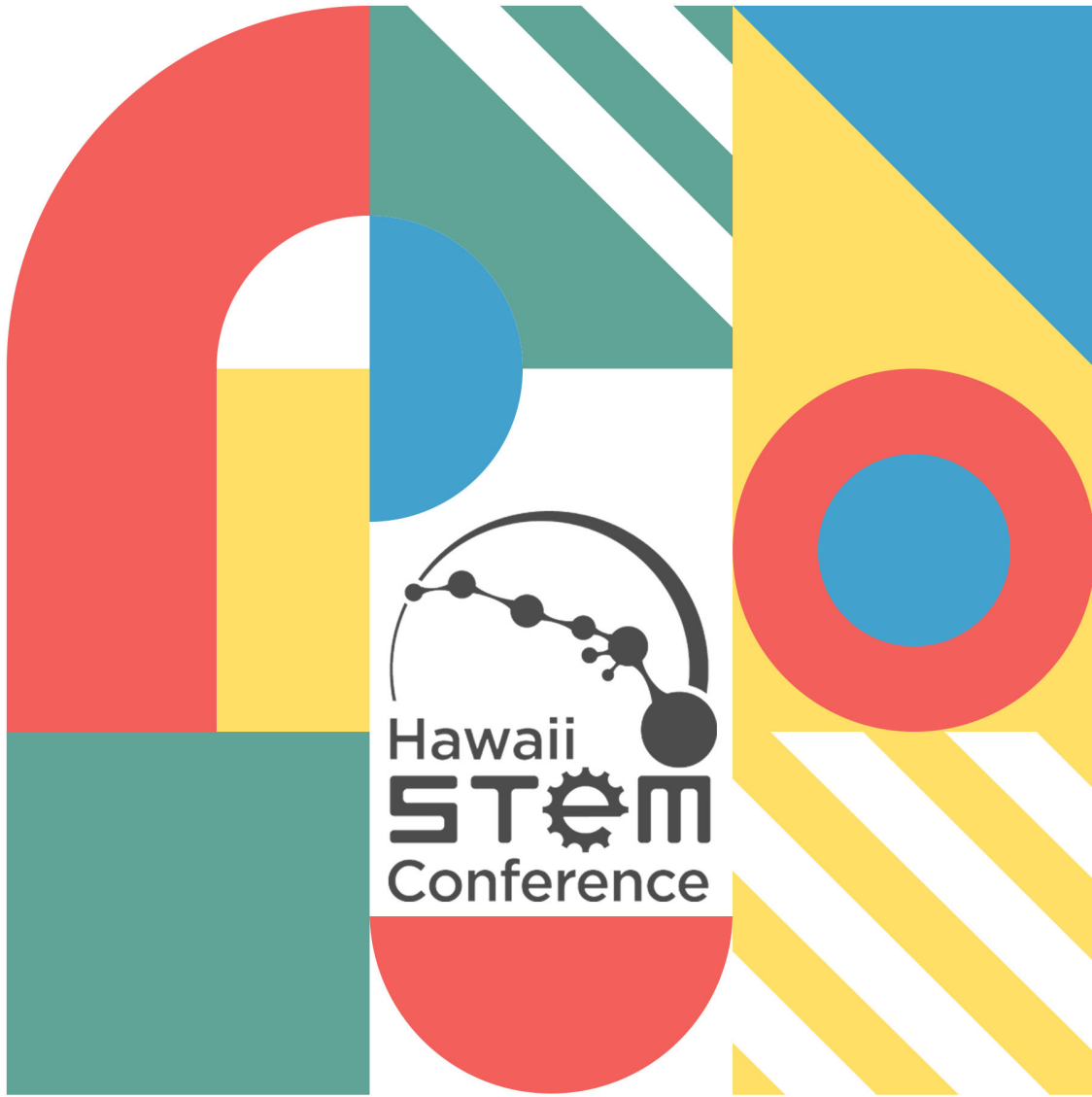


STEMWORKS PRESENTS



@ HAWAII CONVENTION CENTER

Hawaii STEM Conference

Wed. & Thurs.
May 3rd & 4th

2023

1801 Kalakaua Avenue Honolulu, HI 96815
"Download Knowledge. Upload Service."



About STEMworks

As the flagship program of the Maui Economic Development Board, Inc. STEMworks is a service-learning initiative designed to engage, inspire, and motivate K-12 students and underrepresented groups toward STEM careers to create a better world.

STEMworks trains students and teachers in industry-standard software and engineering design practices using hand-on curriculum, regional conferences, and workshops. The goal is to work with educators, industry partners, and community members to build a thriving STEM education-to-workforce pipeline throughout Hawaii.

Our Mission

Provide students and teachers resources, inspiration, and tools that empower them to improve their community and world.

STEMworks K-12 Schools

Hawai'i Island

Honoka'a High & Intermediate School
Kea'au High School
Kealakehe High School

Maui

Baldwin High School
Kalama Intermediate School
Kamali'i Elementary School
King Kekaulike High School
Lahainaluna High School
Lokelani Intermediate School
Maui High School
Maui Waena Intermediate School
Pukalani Elementary School
St. Anthony School
Wailuku Elementary School

Lana'i

Lana'i High & Elementary School

Moloka'i

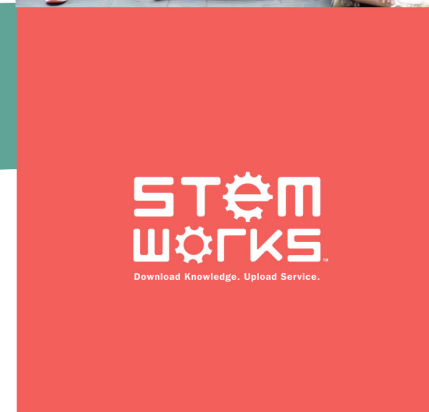
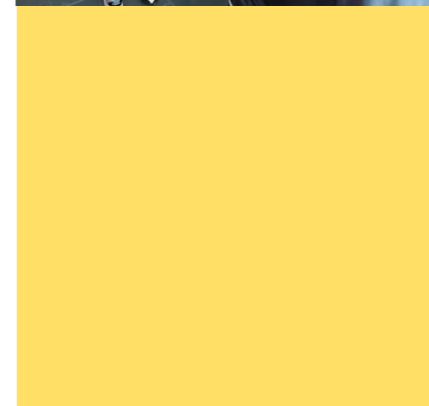
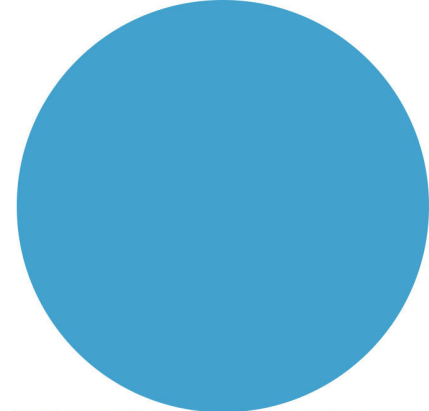
Moloka'i Middle -'O Hina I Ka Malama
Moloka'i Middle School
Moloka'i High - 'O Hina I Ka Malama
Moloka'i High School

Oahu

Castle High School
Farrington High School
Hawai'i Technology Academy
McKinley High School
Mililani High School
Moanalua High School
Roosevelt High School
Waipahi High School

Kaua'i

Kaua'i High School



**STEM
WORKS**
Download Knowledge. Upload Service.

Wednesday, May 3rd

8 am - 10 am	Registration & Playground
10 am - 10:45 am	Oli & Keynote
11 am - 12 pm	Professional Development 1
12 pm - 1 pm	Lunch & Social
1 pm - 2 pm	Professional Development 2
2:15 pm - 3:15 pm	Professional Development 3
3:30 pm - 4:30 pm	Playground & Competition Showcase
6 pm - 8 pm	Evening Social

Thursday, May 4th

8 am - 9 am	Check-in
9 am - 9:45 am	Keynote 2
10 am - 11 am	5X5 Networking Session
11 am - 12 pm	Hour of Code for All
12 pm - 1 pm	Lunch & Social
1 pm - 2 pm	Professional Development 4
2:15 pm - 3:15 pm	STEMMY Awards

Wednesday May 3rd, Session Matrix

Student Teacher Competition Sensory Room

8:00 - 10:00	Registration & Playground	Kalakaua Ballroom		Intro to Adobe Premiere Pro	307 B
10am - 10:45pm	Oli & Keynote	Kalakaua Ballroom		Celebrating Native Birds & Citizen Science	308B
11am - 12pm	Professional Development 1			Civil Air Patrol Flight Simulators	309
	Hacking Hawaii's Regenerative Tourism	302 A	2:15pm - 3:15pm	Professional Development 3	
	The Secret World of Marine Viruses	302 B		HIGICC - Mapping with Drones	301 B
	Celebrating Native Birds & Citizen Science	303 A		Brain-Machine Interfacing - Become a Cyborg	302 A
	Modern Agriculture - Using Technology to Feed the World	303 B		Intro to Adobe Photoshop	302 B
	Climate Change: Make Your Voice Heard!	304 A		Physical Computing: Program the World	303 A
	Gel Electrophoresis Workshop	304 B		Geographic Information Systems: Getting Started with Story Maps	303 B
	Redesigning Your Google Workflow	305 A		Creating a 3D Mesh from NOAA Digital Coast Lidar	304 A
	STEM Bucket Challenge	305 B		Engaging Girls in STEM: STEMworks Service Learning Engineering Design Process	304 B
	Engaging Students with Astronomy	306 A		Dive into NOAA Climate Change Opportunities	305 A
	Aina-Informatics: Place-based Genome Science for the Hawaii Classroom	307 B		Intro to Virtual Reality Application Development	305 B
	Advancing Culturally-Relevant Computer Science in the Classroom: A "Hands-On" Experience	308 A		Medical Laboratory Skills	306 A
	PACE: Nurturing the Next Generation of Innovators and Problem-Solvers	308 B		Intro to Adobe Premiere Pro	307 B
	Civil Air Patrol Flight Simulators	309		Celebrating Native Birds & Citizen Science	308B
				Civil Air Patrol Flight Simulators	309
12pm - 1pm	Lunch & Social	Kalakaua Ballroom	3:30pm - 4:30pm	Playground & Competition Showcase	Kalakaua Ballroom
1pm - 2pm	Professional Development 2		6pm - 8pm	Evening Social	Rooftop
	HIGICC - Mapping with Drones	301 B		Sensory Room	307A
	Brain-Machine Interfacing - Become a Cyborg	302 A		On-Site Competitions:	
	Intro to Adobe Photoshop	302 B		Venture Lab Competition	301A
	Physical Computing: Program the World	303 A		X in a Box Competition	301A
	Geographic Information Systems: Getting Started with Story Maps	303 B		Video Competition	306B
	Creating a 3D Mesh from NOAA Digital Coast Lidar	304 A			
	Engaging Girls in STEM: STEMworks Service Learning Engineering Design Process	304 B			
	Dive into NOAA Climate Change Opportunities	305 A			
	Intro to Virtual Reality Application Development	305 B			
	Medical Laboratory Skills	306 A			

Thursday May 4th, Session Matrix

Student Teacher Competition Sensory Room

8am - 9am	Check-In	Kalakaua Ballroom
9am - 9:45pm	Keynote	Kalakaua Ballroom
10am - 11am	5x5 Industry Networking	Kalakaua Ballroom
11am - 12pm	Hour of Code for All	Kalakaua Ballroom
	May the Fourth B(B-8) with You! Unplugged	302 A
	Code.org with Talkstory	
	Make Your First Video Game	302 B
	Revolutionizing Education: Embracing AI and Personalized Learning with ChatGPT	304 B
	Cybersecurity and You!	306 A
12pm - 1pm	Lunch & Social	Kalakaua Ballroom
1pm - 2pm	Professional Development 4	
	Nā Huakaʻi ʻo O Hina I Ka Malama (Molokai Virtual Fieldtrip)	302 A
	Intro to Adobe Photoshop	302 B
	Cultural Astronomy in Hawaii	303 A
	Institute for Astronomy; Light & Spectra	303 B
	Modern Agriculture - Using Technology to Feed the World	304 A
	Make Your First Video Game	304 B
	From Social Science to STEM: Exploring the Analytical Minds of Economists	305 A
	Stitching up Science: A Hands-On Suture Activity	305 B
	TinkerCAD for All Ages	306 A
	Climate Change in the Classroom: Youth Voice	308 A
	EDP Challenge 3D Pens	308B
	Free STEM Kits, STEM and Cyber Resources, and Programs for Teachers	309
2:15 - 3:15pm	STEMMY Awards	Kalakaua Ballroom

Sensory Room 307A

On-Site Competitions:

Venture Lab Competiton	301A
X in a Box Competition	301A
Video Competition	306B

Day 1 Maps

- Student STEM Sessions
- Teacher STEM Sessions
- COMP Base
- Sensory Room
- Registration Table

DAY ONE May 3rd Level 3



DAY ONE May 3rd Level 4



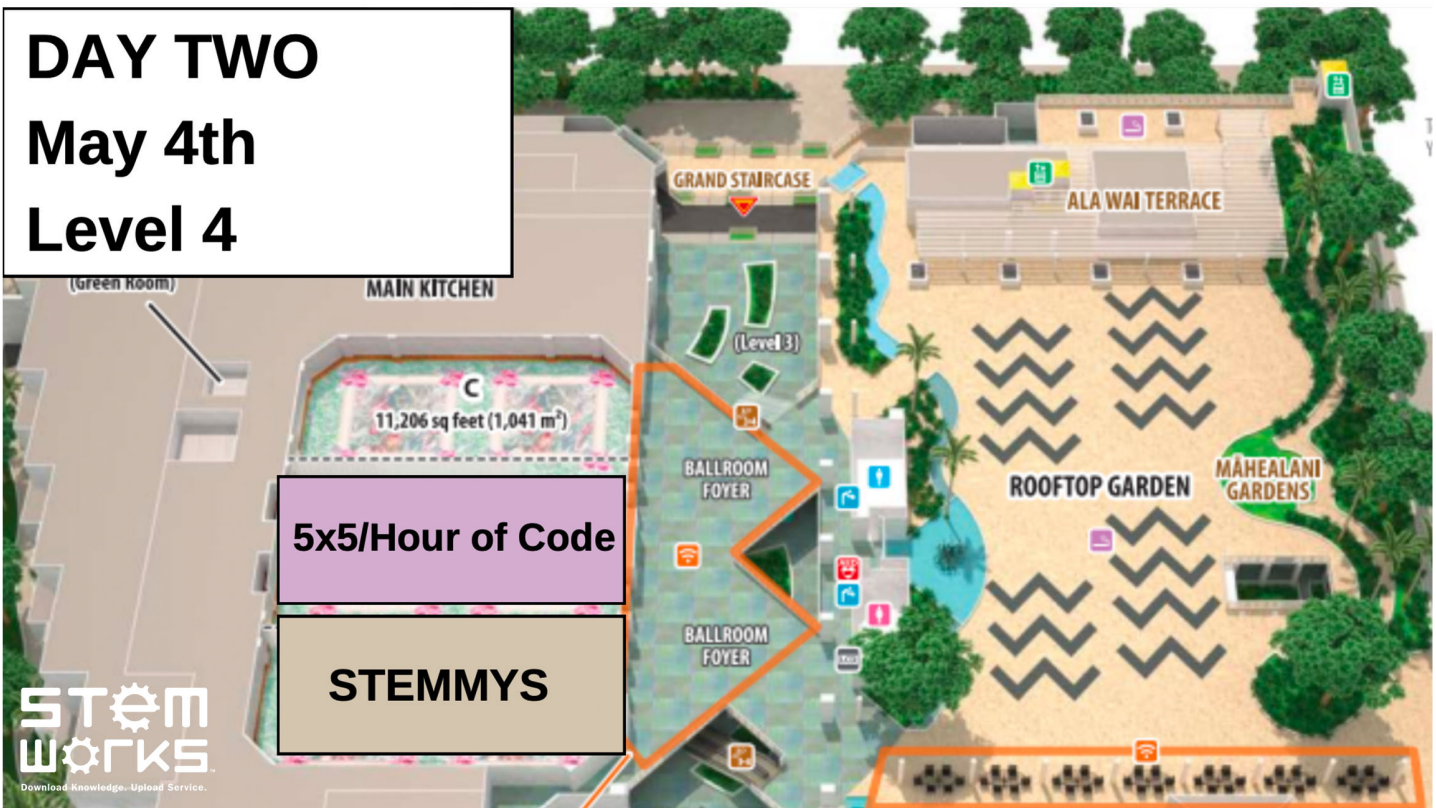
Day 2 Maps

- Student STEM Sessions
- Teacher STEM Sessions
- COMP Base
- Sensory Room
- ★ Registration Table

DAY TWO May 4th Level 3



DAY TWO May 4th Level 4



Keynote Speakers



Wednesday, May 3rd

Anthony Francisco

Anthony Francisco, currently Creative Director for Dolphin Entertainment. Former Senior Visual Development Artist at Marvel Studios. He designed super heroes for the MCU . He is best known for designing one of Marvels cutest characters , Baby Groot! Other iconic characters include Loki for Thor:Ragnarok and the costumes for the Dora Milaje (Okoye and Nakia) for Black Panther. Here are a few Marvel Movies he has worked on: Guardians of the Galaxy Vol.3, Captain Marvel, Avengers: Infinity War, Antman and the Wasp, GOTG Vol2, Doctor Strange, Antman, Guardians of the Galaxy Vol.1 and END GAME!



Thursday, May 4th

Rosie Alegado

Rosie Alegado is an Associate Professor of Oceanography and Sea Grant at UH Mānoa, the Director of Sea Grants' Ulana 'Ike Center of Excellence. Alegado uses systems biology, microbial oceanography, and historical ecology to elucidate the influence and impact of individuals embedded in larger systems, and how these relationships differ under a changing environment, centering a critical 'ōiwi (Native Hawaiian) perspective on research as praxis. Alegado's research program is rooted in meaningful academic collaborations and partnerships with Indigenous communities. She is committed to training scholars to draw upon multiple knowledge systems to address key problems and empower communities to understand and protect their resources. Alegado's professional service includes serving as Chair of the City and County of Honolulu Climate Change Commission, the US National Academy of Science Ocean Studies Board, and the US National Committee for the UN Decade of Ocean Science for Sustainable Development.

Professional Development Sessions

Student PD Sessions

X in a Box



We are all Storytellers: Creating Stories the Pixar Way with Story Xperiential

Presenter: Elyse Klaidman, Tony DeRose, Brit Cruise

Go through the initial steps of creating a story with the Story Xperiential curriculum, developed by Pixar and Khan Academy veterans. More details for this challenge coming soon!

Kupu



Hacking Hawaii's (Regenerative) Tourism

Presenter: Lindsay Todd

We challenge Hawaii's students to "hack" regenerative tourism! More details for this challenge coming soon!

Blue Planet Foundation



Climate Change: Make Your Voice Heard!

Presenter: Griff Jurgens, Lucie Knor, David Aquino, Jenn Lieu

Climate change is one of the greatest threats our generation will face. Come learn the basics of climate science, experience digital and hands-on activities like Efficiency Unlocked and Power Grid Protector (life-size Jenga!), and how you can connect with like-minded students across the state and make your voice heard in the climate movement.

VentureLab



Entrepreneurship + Aerospace Onsite Challenge

Presenter: Scott Mann, Kainoa Aila

This Aerospace Entrepreneurial Challenge is a way to innovatively solve problems, create a prototype, develop a simple business model, and deliver a short pitch. More details on this challenge coming soon!

University of Hawaii at Manoa Dept. Oceanography



The Secret World of Marine Viruses

Presenter: Anamica Bedi de Silva, Kelsey McBeain

Have you ever had the flu? What about the cold? These illnesses are caused by extremely tiny microbes called viruses. However, only a small portion of viruses make humans sick. Most viruses are found in every environment like the ocean and are in fact beneficial in earth processes. So what exactly are viruses? In this workshop, we will dive into the ins and outs of viruses and each participant will even get a chance to infect a mock host cell.

Hawaii Audubon Society



Celebrating Native Birds with Art and Citizen Science

Presenter: Susan Scott, Kate Righter

Learn how citizen science projects can help Hawaii's native city birds. Practice recording your new knowledge and observations with a fun and easy art activity.

Professional Development Sessions

Student PD Sessions

UH - Brain & Behavior Laboratory

UH Manoa - Laboratory for
Advanced Visualization and Applications

Lynker Technologies on contract to
NOAA Office for Coastal Management



Brain-Machine Interfacing - Become a Cyborg

Presenter: Jonas Vibell, Kyra Gauthier Dickey,
Isak Kim

A brain-machine interfacing workshop where students get hands-on experience, controlling a robot hand using their minds!

Intro to Virtual Reality App Development

Presenter: Roderick Tabalba

This workshop is designed to introduce beginners in Computer Science the basic concepts of application design in Unity and Virtual Reality. By the end of this workshop, you will have created your own deployable application.

Creating 3D mesh from NOAA Digital Coast Lidar

Presenter: Tim Schierenbeck, Andrew McGowan

Students will create a 3D mesh from real-world lidar point clouds published by NOAA Office for Coastal Management. Output .STL product can be used in 3D modeling software and printing.

ʻO Hina I Ka Malama: Hawaiian
Language Immersion Program

University of Hawaii / CyberHawaii

Civil Air Patrol



Nā Huakaʻi ʻo O Hina I Ka Malama

Presenter: Mahina Hou Ross

Join the kumu and students of O Hina I Ka Malama as they take you on a virtual field trip on Molokai. Students will share oli and videos about the field trips we take on Molokai and throughout Hawaiʻi

Cybersecurity and You!

Presenter: Manda Tong

Cybersecurity has become a vital part in our life as the digital world continues to expand. Learn how you can protect your information with a few simple steps, create a strong password (that's easy to remember!), and learn how cryptography has advanced to protect our information online.

Flight Simulators

Presenter: Capt Darryl Ng

Come and join us as we let you get a hands-on demonstration of the flight simulators we use to train our cadets to become tomorrow's aviators!

Professional Development Sessions

Student PD Sessions

Hawaii Department of Education



Physical Computing: Program the World

Presenter: Shane Asselstine

In this session, the participants will engage in hands-on learning about the Micro:bit programmable circuit board. While working through a design project in small groups, participants will develop empathy and a deeper understanding of how software and hardware come together to solve challenges.

HIGICC



HIGICC- Mapping with Drones

Presenter: Gretchen Chiques, Clare Mamura, Michael Wahl

In this session, you will learn how real-life applications of drone mapping. You will learn to fly your own drone. You will also learn how to program your drone to fly in automatic mode.

Microbiology Matters LLC



Stitching up Science: A Hands-On Suture STEM Activity

Presenter: Jaime Kahooohanohano

Have you ever wanted to be a doctor or enter into a medical field? In this session, we will discuss different medical professions. We will also do a hands-on activity with a STEM kit to learn how to suture.

Bayer Hawaii



Modern Agriculture- Using Technology to Feed the World

Presenter: Jill Coombs, Joseph Davis, Jeff Tupea, Ganesan Srinivasan, Ayja Welch

1. Highlighting how engineering and programming fits into the Agricultural Industry
2. Integrating technology into everyday farming

Ohana Kilo Hoku



Cultural Astronomy in Hawaii

Presenter: Sage Constantinou

An interpretation of cultural astronomy in Hawaii, explored through mo'olelo, historical applications, and current research.

STEMworks



Crafting Compelling Stories with ArcGIS Storymaps

Presenter: Justin Kellum

In this ArcGIS Storymaps workshop, you'll learn the fundamentals of creating compelling stories using express maps and map maker in ArcGIS. Get hands-on experience and gain the skills needed to tell engaging stories with maps that captivate and inform your audience.

Professional Development Sessions

Student PD Sessions

Chaminade University of Honolulu:
I Am a Scientist STEM Outreach



Gel Electrophoresis Workshop

Presenter: Tiffany Rivera

Experience fundamental biotechnology techniques in this hands-on workshop. Participants will use micro-pipetters, vortex, and gel electrophoresis to perform their own experiment.

Hawaii Pacific Basin AHEC



Medical Laboratory Skills

Presenter: Thomas Hao, Kekoa Darby

Interested in the Medical Field? Join us in discovering and learning the skills healthcare professionals use! Get a headstart in the medical field by getting a head start!

UH: Institute for Astronomy



Institute for Astronomy Light & Spectra

Presenter: Roy Gal

See how astronomers use the light given off by planets, stars, and galaxies to understand their composition and temperature. A talk and interactive activities for all ages.

Lokelani Intermediate School (HIDOE)



Tinkercad for All Ages

Presenter: Sean Yannell

Students and kids of all ages can learn the basics of making amazing 3D print ready designs in Autodesk Tinkercad.

STEMworks



Geographic Information Systems: Getting Started with Story Maps

Presenter: Justin Kellum

Ready to make better stories? See what it takes to craft a strong narrative, then get a crash course in bringing your content to life. ArcGIS StoryMaps is a story authoring web-based application that allows you to share your maps in the context of narrative text and other multimedia content. You can use ArcGIS StoryMaps to author stories about your community, projects and interests with the story builder. Stories can include maps, narrative text, lists, images, videos, embedded items, and other media. In this session, you'll learn how to storyboard, make basic maps, and publish and share your stories.

STEMworks



EDP Challenge 3D Pens

Presenter: Dav Yuan (Maui Digital Bus)

With a 3D pen you can draw a raised graphic on a piece of paper or any flat surface. But what makes a 3D pen truly unique is its ability to "draw" in mid-air, allowing you to instantly form 3D structures right in front of you! Join us to learn how to use the Engineering Design Process with the 3D doodle pen!

Professional Development Sessions

Teacher PD Sessions

Civil Air Patrol



Free Stem Kits, STEM & Cyber Resources, and Programs for Teachers

Presenter: Capt Darryl Ng, Maj Martin Guiles

Hawaii Wing Civil Air Patrol will be giving a seminar on the benefits of joining as an Aerospace Education Member (Free for all STEMWorks teachers!). We'll go through some of the STEM Kits and pre-packaged lesson plans and Hands-On Activities provided with the kits and talk about how easy it is to get up to two sets of STEM kits each year and a yearly flight in one of our airplanes!

Maui Game Studio



Making Your First Game

Presenter: Joseph M Abraham

In this workshop, we will create a short game during the presentation. The game will be made with RPG Maker. I will also discuss different options and engines for teaching game development.

Blue Planet Foundation



Climate Change in the Classroom: Youth Voice

Presenter: Griff Jurgens, Lucie Knor, David Aquino, Jenn Lieu

Climate change is one of the greatest threats our generation, and those after us, will ever face. Come learn how to weave climate change education into your curriculum, experience the hands-on activities yourself, and learn about an incredible opportunity for your high school students: Climate Crew.

Chaminade University of Honolulu



From Social Science to STEM: Exploring the Analytical Minds of Economists

Presenter: Guanlin Gao

Six of the eight Ivy League universities reclassify their economics degrees from social science to STEM. This presentation employs real-life examples and hands-on games to show how economists apply analytical minds and skills to broaden the implementation of STEM tools and lead students into a wide range of career choices.

A'ina-Informatics Network ('Iolani School)



Aina-Informatics: Place-based Genome Science for the Hawai'i Classroom

Presenter: Eric Tong, Ethan Hill, Joanna Kobayashi

Aina-Informatics is a teacher network supported by Iolani School designed to bring place-based genome science, bioinformatics and pono bioethics into local high school classrooms. At this informational session, we invite high school life sciences teachers to explore avenues of curricular, equipment and funding support available through our growing network.

Hawaii Audubon Society



Celebrating Native Birds with Art and Citizen Science

Presenter: Susan Scott, Kate Righter

Learn how citizen science can help protect Hawaii's native city birds, and what educational resources are available for your classroom. Then practice using creative ways to integrate place-based learning with both scientific and artistic ways of understanding native birds and Hawaiian ecosystems.



Professional Development Sessions

Teacher PD Sessions

University of Hawai'i Pacific Asian Center for Entrepreneurship (PACE)



PACE: Nurturing the Next Generation of Innovators and Problem-Solvers

Presenter: Krystal Lee

The University of Hawai'i Pacific Asian Center for Entrepreneurship (PACE) is leading the execution of RISE (Residences for Innovative Student Entrepreneurs), an immersive live-learn-work community set to open this fall across from the Manoa campus. Open to all majors; RISE is a first-of-its-kind student housing facility at UH that presents a new way for makers and doers to connect, collaborate, and innovate within an integrated living/learning community.

Hawaii Department of Education



Revolutionizing Education: Embracing AI and Personalized Learning with ChatGPT

Presenter: Casey Agena

We will explore the impact of artificial intelligence and personalized learning on education, with the help of ChatGPT - a cutting-edge language model. We will delve into the ways in which AI can transform the classroom experience, from automating routine tasks to providing personalized feedback to students.

NOAA



Dive into NOAA Climate Change Opportunities

Presenter: Leon Geschwind, Mahealani Bambico, Debbie Millikan, Rainbow Pharaon, Lianna Lam

Join the National Oceanic and Atmospheric Administration (NOAA) to:

1. Be inspired by teachers and learn how K-12 educators can receive up to \$4,000 annually to carry out environmental stewardship activities at your school and community.
2. Provide your expertise on a new Hawai'i based activity book where you will learn all about community resilience and discover ways that you and your students can make a difference.

Queen Ka'ahumanu Elementary (HIDOE)



May the Fourth B(B-8) with You! Unplugged Code.org with Talkstory Too!!

Presenter: Celeste Endo

Let's dress up as BB-8 to collect scrap metal and help Rey rebuild her spaceship. Join our Code.org lesson that gets everyone moving around with big vibrant motions to learn computer science concepts. We'll also practice talkstory conversations to collectively share bright spots of what's working in our classes!

STEMworks



Introduction to Premier Pro

Presenter: Yasuhiro Yokoyama

This workshop will walk you through how to get started in Premier Pro and how to edit a short video from start to finish. Sample video footage will be provided and we will learn the software through actually editing in Premier Pro together to create a short video during the workshop.

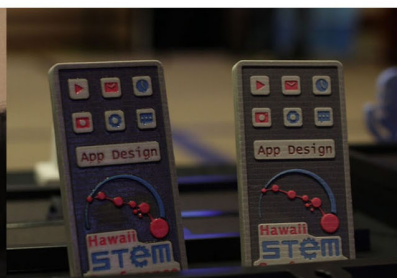
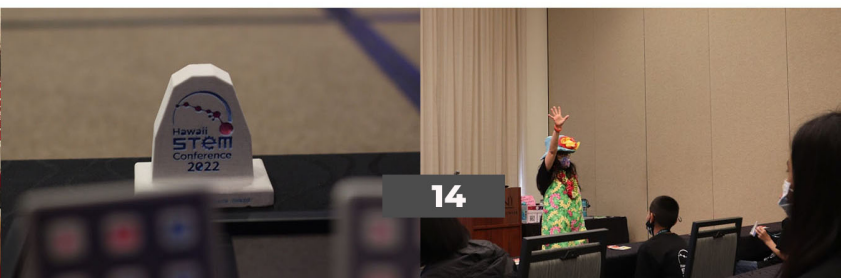
UH Manoa - Learning Design and Technology



Advancing Culturally-Relevant Computer Science in the Classroom: A "Hands-on" Experience

Presenter: Daniel Hoffman, Dr. Peter Leong, Dr. Seungoh Paek, Dr. Rochelle Ka'aloa

This presentation introduces educators to the concept of culturally-relevant computing (CRC). The goal is to promote instruction that values Computer Science (CS) outcomes while simultaneously valuing culture-based outcomes. Recognizing learning as a cultural process, the presentation reviews recent developments in culturally-relevant pedagogy and uses hands-on activities to



Professional Development Sessions

Teacher PD Sessions

Hawaii Department of Education

Canada-France-Hawai'i Telescope



Redefine your Google Workflow

Presenter: Shane Asselstine

In this session, we will be engaging in ways to impact productivity through the examination of our workflow. Participants will engage in learning about features with Google Workspace tools such as Gmail, Google Calendar, and Chrome. Regardless of your level, this session will help you streamline your workflow.



Engaging Students with Astronomy

Presenter: Mary Beth Laychak

Astronomy is a gateway science, one that attracts students with stunning images and mysterious topics (Black holes anyone?). Mary Beth will discuss topics and tools to help you incorporate astronomy content into your astronomy and non-astronomy courses.

STEMworks

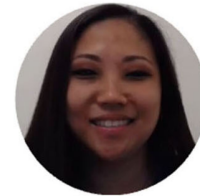


Engaging Girls in STEM: STEMworks Service Learning Engineering Design Process

Presenter: Jaime Kahooohanohano

Research shows that even though women constitute half of the college-educated workforce in the United States, their representation in STEM jobs is less than 30%. The situation is, even more, severe for minority groups. In this session, we will discuss ways to address this issue to empower our students. We will also engage in a hands-on activity utilizing the STEMworks Engineering Design Process.

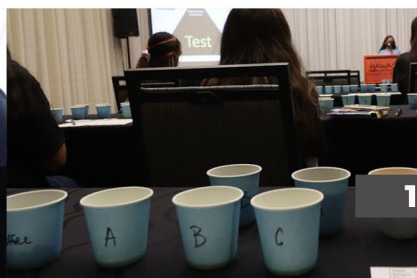
Hardware Science



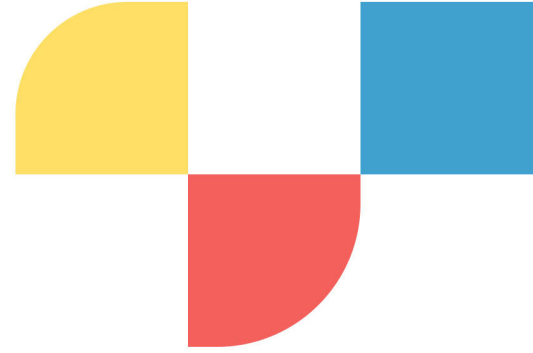
STEM Bucket Challenge

Presenter: Melanie Ho, Lisa Loo

Participants will be placed in teams and will be challenged to retrieve items in a bucket using only the tools given.



5x5 Industry Networking Presenters



Bayer Crop Science

Ganesan Srinivasan, Agronomist
Jeff Tupea, Regional Automation Engineer

Cherry Bekaert

Brook Conner, Director

CSO International

Grace O'Malley, Chief Science Officer

U.S. Army Corps of Engineers

Sarah Falzarano, Chief, Technical Integration Branch

Poppy Sustainability & Philanthropy

Michele David, Founder

(Formerly) Bank of Hawaii

Colleen Milbury, Senior Analytics Manager

Burns & McDonnell

Ryan Wubbens, Engineering Manager
Matt Sahara, Assistant Electrical Engineer
(EIT)

Kamehameha Schools

Jared Taylor, Land Information Systems Business Analyst

Booz Allen Hamilton

Tiffany Drummond, Associate

eWorld Enterprise Solutions, Inc.

Joel Bongco, VP/Chief Experience Officer

Central Pacific Bank

Ellen Ng, Digital Product Manager

heal.me

Eight Lee, CTO

Aina Design Corp

Joe Hagedorn, Founder

Purple Mai'a Foundation

Daniel Kinzer, Lead Community
Technologist

Fictiv

Jeremy Laskar, Engineering Manager

National Oceanic and Atmospheric Administration (NOAA)

Kisei Tanaka, Marine Biologist

Ellevest

Pratik Prasad, Engineering Manager

Terranox

Kat Duran, Product Design & Experience
Manager

Albertsons

Lia Yue, Product Designer

Boeing Company

Vince Smith, Computer Aided Design (CAD)
Information Technology (IT) Specialist

Hawaii Space Flight Laboratory

Kelly Ngo, Electrical Engineer

Ferguson Enterprises

Francisco Cha, Software Engineer Manager

Striveworks

Ed White, Staff Software Engineer

Kentik

Aaron Kagawa, Engineering Director

Hawai'i Institute of Marine Biology (HIMB)

Mariana Rocha de Souza, Coral Reef
Biologist

Stargazers of Hawaii

Nick Bradley, Astronomer, Owner

EO Solutions LLC

Daron Nishimoto, All around good guy

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5x5 Industry Networking Presenters

Citrine Informatics

James Saal, Director-External Research Programs

RAI Hawaii LLC

Phaedra Robinson, Founder and CEO

City and County of Honolulu

Constancio Paranal, PM Innovation and Technology

Honolulu Board of Water Supply

Ernie Lau, Manager and Chief Engineer

Geeks and Nerds

Jonn Kim, CEO/CTO

CASE Consultants International

Liz Tarquin, CEO

HealthTechApps, Inc.

Noe Foster, Co-founder

Orange Leonard

Kris Harms, Managing Director

Pacific Point Inc.

Danielle Edwards + Team



**STEM
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STEMMY Competitions

On-Site Competitions



STEM Conference Highlight Video Competition

In partnership with: HIDOE Communications Branch
Wednesday, May 3rd - Thursday, May 4th

Limited to one team of up to four people per school.



We are all Storytellers: Creating Stories the Pixar Way with Story Xperiential

Story Xperiential Challenge Sponsored by Punahou Schools, DBEDT and Creative Industries Hawaii.
In partnership with: X in a Box Story Xperiential
Thursday, May 4th 10am-2pm

*Students will create stories with Pixar veterans. *This is not a competition, but more of a workshop and showcase.*



VentureLab Entrepreneurship + Aerospace Pitch Challenge

In partnership with: VentureLab
Wednesday, May 3rd 11am-4pm

Students can work individually or in teams of up to three to create a pitch and solve problems in the aerospace sector.

Pre-Event Competitions

STEM Podcast Challenge

Health Matters!

Health/Healthcare Challenge

Clear Skies

Renewable Energy Challenge

Hooked!

Ag Innovation Challenge

Game on!

Video Game Design

STEMworks T-Shirt

Design Challenge

STEMworks Sticker

Design Challenge

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An initiative statewide program of Maui Economic Development Board.



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STEMWORKS HAWAII



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