

# ANNUAL REPORT 2017-2018



[www.higicc.org](http://www.higicc.org)

# OUR STORY



The HIGICC strives to bring together and continue to build the geographic community into a cohesive, recognized coordinating body that facilitates the use, development, sharing, and management of geographic data and communicates the value of geographic information to citizens and decision-makers. In the State of Hawaii, GIS is recognized and effectively used as an invaluable tool by the government, business and the citizens for understanding and managing our aina (environment). The Hawaii Geographic Information Coordinating Council is a shared mechanism for the diverse community to identify, explore, and solve problems with geospatial information.



# BOARD OF DIRECTORS



2017 - 2018

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<b>Craig Clouet</b>	<b>President</b>
<b>Gretchen Chiques</b>	<b>Vice President</b>
<b>Malie Beach-Smith</b>	<b>Treasurer</b>
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2018 - 2019

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<b>Sam Aruch</b>	<b>Officer</b>
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# PRESIDENT'S MESSAGE

Aloha,

The past year at the Hawaii Geographic Information Coordinating Council was another success. As a non-profit, we keep the budget and expenses in good order. We hired an account to review our books and financial reports to make sure we work in accordance with non-profit laws and regulations; and yes, we are doing well.

As for the fun stuff, we had another great GIS Day. Thanks to the Women in Technology team for their collaboration with the HIGICC. We also participated with WIT in their StemWorks conference at the Hawaii Convention Center, which was attended by over 1,000 students and 300 teachers from all over the state. HIGICC board members also went out to the Nanakuli High School STEAM event held for grades 6 through 12. The HIGICC continues to support education at the college level, and again gave out a scholarship this year. Your membership fees are instrumental for this award.

The HIGICC also is present and contributing to policy and funding initiatives. This year, the HIGICC has been participating with the USGS and State of Hawaii GIS Program to spearhead the national 3DEP elevation questionnaire. This effort is important to get funding for high quality elevation data in the form of light detection and ranging (lidar) data out here in Hawaii.

Finally, the HIGICC held events, a census workshop, and two GIS Expos. The events were well attended and everyone enjoyed the presentations and a chance to network and learn from each other.

I am happy to have served as President for these past few years, and am pleased to pass the presidential torch to Christine Chaplin, who has served as Secretary to the HIGICC. Please support her as you did me. I am sure with all your help; we can carry on the mission of the Hawaii Geographic Information Coordinating Council.

Mahalo,  
Craig Clouet  
HIGICC President  
2017-2018





## HIGICC EVENTS

# We ♥ GISday

EVENT: CELEBRATING 'THE SCIENCE OF WHERE' THIS GIS DAY



Oahu, Hawaii —STEMworks™, a program of the Maui Economic Development Board's Women In Technology Project, will be partnered with Hawaii's Geographic Information System (GIS) professionals to host its annual GIS Day on Oahu, November 7<sup>th</sup> for Hawaii K-12 schools.

Over 17 years ago, consumer advocate Ralph Nader presented an idea to Esri founder and President Jack Dangermond: dedicate one day to show how geographic intelligence touches everyone. That led to the establishment of GIS Day, which was first observed in 1999. The explosion of geospatial technology since then has expanded that idea into a global event that demonstrates how far GIS, and "The Science of Where", extends into people's lives.

On November 2018, Hawaii students learned the different applications of GIS and how it is used in various industries across the islands. During GIS Day Hawaii, being held at the NOAA Daniel K. Inouye Regional Center on Ford Island in Honolulu, students will engage in activities such as Science on a Sphere, Augmented Reality Sandbox, Virtual Reality Google Earth Tour, Esri ArcGIS, American Society for Photogrammetry and Remote Sensing (ASPRS) Heat Sensors, Planetarium and drone demonstrations. Students will also network with local professionals to learn more about the growing GIS career opportunities in Hawai'i and the exciting projects that use geospatial technologies.



"We are excited to promote GIS awareness throughout the state and to collaborate with HIGICC, Esri, and NOAA to help make it happen," said Isla Young director of STEM Education and Workforce Development for MEDB's Women in Technology Project. "Inspiring the next generation of spatially literate and engaging Hawaii STEM students are two of our highest priorities."

# Inspiring

## the next generation of STEM Leaders

EVENT: HAWAII STEM CONFERENCE



HIGICC continues to support the Hawaii STEM Conference during its 9th year in Hawaii with talented industry professionals and educational activities. This two day immersive event engaged students and teachers while connecting them to the many rewarding and challenging STEM careers.

More than 1,000 students, educators, industry partners and community leaders throughout the state and the nation gathered for the ninth annual Hawaii STEM Conference April 10-11 at the Hawaii Convention Center in Honolulu. The conference was presented by STEMworks, a statewide program spearheaded by Women in Technology, an initiative of the Maui Economic Development Board.

Students and teachers representing intermediate and high schools from islands across the state participated in this regional technology conference, which featured more than 61 hands-on student sessions, 25 teacher professional development sessions, 14 software competitions, an interactive STEMworks Playground offering over 77 mini STEM sessions, a formal awards banquet (“The STEMMYS”), a STEMworks Spotlight showcasing the STEM service learning projects by Hawaii STEMworks students statewide, and a 5×5 Session that provided students the opportunity to engage with five different STEM industry professionals in a speed networking format.

Those who attended the conference touted the impact STEM education and the annual conference continues to have. Come join us on the next Hawaii STEM Conference 2019!

  
Hawaii  
**STEM** Conference  
May 1 & 2, 2019  
Hawaii Convention Center, Honolulu

Empower our Next  
Generation of  
Innovators and Leaders

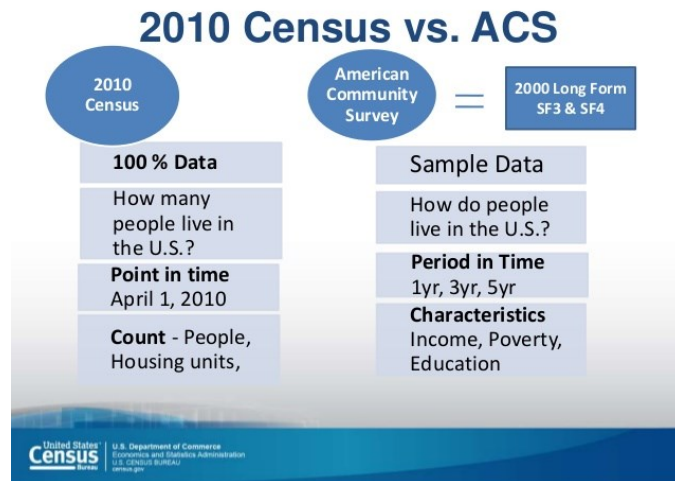
A PROGRAM OF **STEMWORKS**

- Industry Standard Software in Classrooms
- STEMworks™ Interactive Playgrounds
- STEMworks™ Engineering Design Curriculum & Program
- STEM Competitions & Breakout Sessions
- Networking and Career Pathway Empowerment
- Teacher & Student Professional Development
- Featuring: Geospatial, Drones, CAD & 3D Printing, Virtual Reality, Digital Media, Graphic Arts, Robotics, Coding & More

[www.hawaiiSTEMconference.org](http://www.hawaiiSTEMconference.org)

## EVENT: U.S. CENSUS WORKSHOP

On May 15<sup>th</sup>, the State of Hawaii Planning Office invited Eric Coyle to speak about the United States Census Bureau data collection, availability and a new interactive map service. He went over how data is collected by the American Community Survey, the difference between ACS data and the Census data and products:



He also covered how the census selects their statistical areas, accessing TIGER/ACS Data at [census.gov/geo/maps-data/data/tiger](https://census.gov/geo/maps-data/data/tiger), and introduced the Census Bureau's new web application.

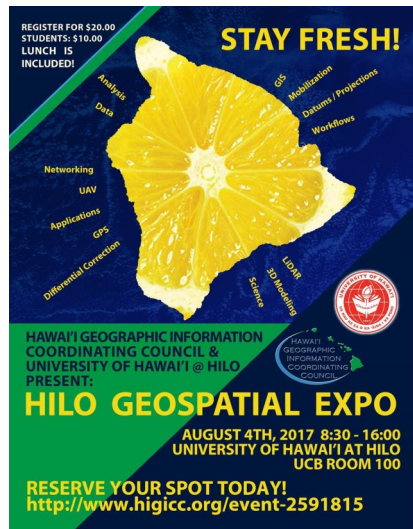
The interactive web application Census Business Builder Small Business Edition provides easy access to information about potential customers and similar business for those starting or planning a business. The data are presented in a map-based interface that leverages Esri's ArcGIS platform and is the first U.S. Census Bureau data tool released on the cloud. The Small Business Edition contains the following data:

- Demographic, socioeconomic, and housing data from the American Community Survey
- Business data from the County Business Patterns, Non-employer Statistics, Economic Census, and Survey of Business Owners
- Imports and Exports data from the International Trade program
- Consumer Spending data from Esri
- Agriculture data from the Census of Agriculture
- Workforce data from the Quarterly Workforce indicators
- Farms data from the Census of Agriculture (USDA)
- Your own data (via Excel file upload feature)

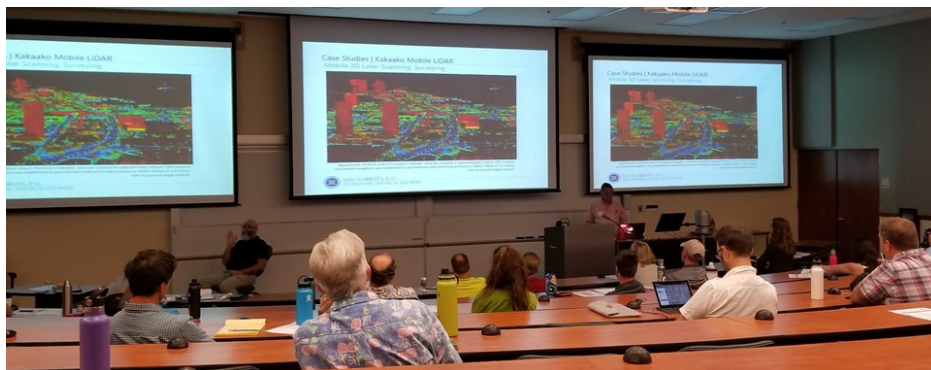
Additional information about the service can be found here: <https://census.gov/data/data-tools/cbb/html> and access to the current version is here: <https://cbb.census.gov/sbe/#>



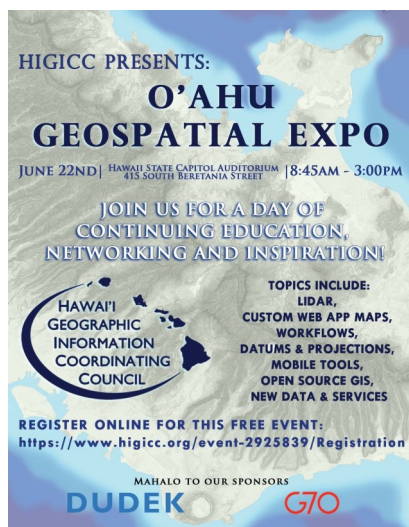
## EVENT: HILO GIS EXPO



On August 4<sup>th</sup>, 2017 Hilo welcomed the HIGICC for a geospatial Expo. It was a full day of presentations and networking. The University of Hawaii Hilo was a great venue for the event with their high-tech auditorium. There were many fine presentations with a large range of topics. UH Hilo's Geography Department and the Spatial Data and Visualization Lab are doing exciting work with UAVs in addition to working on local projects that benefit the community. Other topics such as Albizia distribution, R-Stats, REST Services and more filled the day. It was a great time to sit and catch up with old friends and make new ones. Mahalo to Sylvie Cares and the UH Geography Department for their help arranging the expo.



## EVENT: HIGICC OAHU GIS EXPO



On June 22<sup>nd</sup> the HIGICC Oahu GIS Expo was held at the State Capitol Auditorium. This event was a success with over 150 people in attendance. There was a great set of speakers who gave a wide range of presentations. Interesting topics included using UAVs for the Kilauea eruption mapping to open source GIS, and more. In addition two large jars of preserved brown tree snakes were on display thanks to the Department of Agriculture Plant Quarantine Branch. A great time was had by all. Thanks to all that attended.





**2017-2018**

**HIGICC SCHOLARSHIP AWARD TO**



*Eszter Collier*

This year the HIGICC scholarship committee chose to award a \$1,000 Scholarship to Eszter Collier. She is attending University of Hawaii at Hilo, Mastering in Tropical Conservation Biology and Environmental Science.

Eszter Collier was born in Budapest, Hungary, and moved to the U.S. at four years old. She grew up digging for insects in the backyard and riding bikes in suburban Kansas City, Kansas, and her interest in the natural world led her to study biology at the University of Kansas in Lawrence. She graduated in 2009 and made the jump to the Big Island of Hawaii two years later, despite never having set foot on a tropical island. It turned out to be the adventure of a lifetime, and after a brief stint in Oregon, She returned to the Big Island where she now resides with her husband and son in a small plantation town on the Hamakua coast.

Eszter's interest in Geographic Information Systems stems from a wildlife biology class in her senior year of college, where she created a model for predicted salamander occurrence in the Appalachian Mountains. After working in molecular biology for a few years, she decided that it just wasn't for her and that she wanted to explore data visualization and address conservation problems using geospatial techniques. Eszter was very fortunate to find an online GIS program at Itasca Community College and completed in August. Eszther will begin the Tropical Conservation Biology Master of Science program in August at the University of Hawaii at Hilo. Her academic interests include using GIS for environmental health assessment and to study ecological processes. Between schoolwork and chasing around a toddler, life is pretty busy but when she has free time she enjoys surfing, cycling, and adventuring with her family.



**2017 - 2018**

**BUDGET REPORT**

**Operating Expenses of \$5,916**

**Board of Director Travel Expense of \$947**

**Donation and Sponsorship Income of \$2,100 mostly covered expenses for HIGICC-Sponsored**

**Events:**

**Big Island GIS Expo (\$493)**

**GIS Day (\$500)**

**HIGICC-Sponsor Support of the Hawaii STEM Conference (\$1,000)**

**Mark Lierman Memorial Scholarship Award (\$1,000)**

**Total income for fiscal year 2017-18 was \$7,075**

**Total expenses were \$9,423.**

**The total net loss for fiscal year 2017-18 was \$2,347**



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 Cash Basis

## HIGICC Profit & Loss Budget vs. Actual July 2017 through June 2018

	Jul '17 - Jun 18	Budget	\$ Over Budget	% of Budget
<b>Income</b>				
4000 · Membership dues income	4,200.00	6,000.00	-1,800.00	70.0%
4050 · Donations income	1,000.00	100.00	900.00	1,000.0%
4100 · GIS Day event				
4110 · Income	0.00	0.00	0.00	0.0%
4150 · Expenses	-500.00	500.00	-1,000.00	-100.0%
<b>Total 4100 · GIS Day event</b>	<b>-500.00</b>	<b>500.00</b>	<b>-1,000.00</b>	<b>-100.0%</b>
4200 · GIS Expo event				
4210 · Income (Big Island)	840.00	4,800.00	-3,960.00	17.5%
4215 · Expense (Big Island)	-1,332.94	2,900.00	-4,232.94	-46.0%
4220 · Income (Maui)	0.00	2,000.00	-2,000.00	0.0%
4225 · Expense (Maui)	0.00	2,500.00	-2,500.00	0.0%
4230 · Income (Oahu)	0.00	2,400.00	-2,400.00	0.0%
4235 · Expense (Oahu)	0.00	2,400.00	-2,400.00	0.0%
<b>Total 4200 · GIS Expo event</b>	<b>-492.94</b>	<b>17,000.00</b>	<b>-17,492.94</b>	<b>-2.9%</b>
4300 · Scholarships				
4310 · Scholarship contributions	1,000.00	100.00	900.00	1,000.0%
4315 · Scholarship awards	-1,000.00	-1,000.00	0.00	100.0%
4300 · Scholarships - Other	0.00	2,900.00	-2,900.00	0.0%
<b>Total 4300 · Scholarships</b>	<b>0.00</b>	<b>2,000.00</b>	<b>-2,000.00</b>	<b>0.0%</b>
4400 · Conference				
4410 · Conference income	0.00	0.00	0.00	0.0%
4415 · Conference expenses	0.00	0.00	0.00	0.0%
4400 · Conference - Other	0.00	0.00	0.00	0.0%
<b>Total 4400 · Conference</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.0%</b>
4500 · Annual meeting				
4510 · Annual meeting income	15.00	500.00	-485.00	3.0%
4515 · Annual meeting expense	0.00	-650.00	650.00	0.0%
<b>Total 4500 · Annual meeting</b>	<b>15.00</b>	<b>-150.00</b>	<b>165.00</b>	<b>-10.0%</b>
4600 · Meetings				
4610 · Meetings income	0.00	0.00	0.00	0.0%
4615 · Meetings expenses	0.00	0.00	0.00	0.0%
4600 · Meetings - Other	0.00	0.00	0.00	0.0%
<b>Total 4600 · Meetings</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.0%</b>
4700 · Workshops				
4710 · Workshop income	0.00	0.00	0.00	0.0%
4715 · Workshop expense	0.00	0.00	0.00	0.0%
<b>Total 4700 · Workshops</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.0%</b>
4900 · Miscellaneous income	0.00	0.00	0.00	0.0%
4990 · Uncategorized income	20.00	0.00	20.00	100.0%
<b>Total Income</b>	<b>4,242.06</b>	<b>25,450.00</b>	<b>-21,207.94</b>	<b>16.7%</b>



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Cash Basis

HIGICC  
Profit & Loss Budget vs. Actual  
July 2017 through June 2018

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	Jul '17 - Jun 18	Budget	\$ Over Budget	% of Budget
Expense				
5100 - Contact management site	1,404.00	1,580.00	-176.00	88.9%
5150 - Insurance	718.00	720.00	-2.00	99.7%
5200 - Website	0.00	1,430.00	-1,430.00	0.0%
5250 - Fees & service charges	157.46	200.00	-42.54	78.7%
5300 - Licenses & permits	23.50	5.00	18.50	470.0%
5400 - Dues	465.00	515.00	-50.00	90.3%
5450 - Travel expense	947.26	3,000.00	-2,052.74	31.6%
5500 - Office supplies & expense	200.00	630.00	-430.00	31.7%
5550 - Legal & accounting fees	1,730.37	1,000.00	730.37	173.0%
5650 - Web conferencing service	671.88	671.88	0.00	100.0%
6000 - Miscellaneous	271.77	100.00	171.77	271.8%
Total Expense	6,589.24	9,851.88	-3,262.64	66.9%
Net Income	<u>-2,347.18</u>	<u>15,598.12</u>	<u>-17,945.30</u>	<u>-15.0%</u>

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