



# LAE I LAE POINT TO POINT

Lae I Lae, a newsletter from the **Hawaii Land Surveyors Association**, an affiliate and a member with the National Society of Professional Surveyors

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**COMPRISED OF APPROXIMATELY  
70% OF THE LICENSED LAND  
SURVEYORS IN HAWAII OUR  
OBJECTIVE IS TO BRING  
TOGETHER THE LAND SURVEYING  
COMMUNITY THROUGH EDUCATION  
AND TO PROVIDE NETWORKING  
OPPORTUNITIES AND BUSINESS  
RESOURCES.**





# PRESIDENT'S MESSAGE

BY: VICTOR RASGADO, LPLS

Aloha HLSA members and supporters, on behalf of the HLSA Board of Directors, I wish you much Aloha and Mahalo for your continued support and membership.

I would like to send out a big Thank You to Christina Villa for again volunteering her time to put together the HLSA newsletter so we can once again keep our members informed about our upcoming events and activities. Over the past 12 months, The HLSA Board of Directors has been engaged in the community by assisting a troop of Boy Scouts obtain their Merit Badge for Surveying, co-hosting with HIGICC Geospatial Expos on Big Island and Kauai, supporting and teaching a new survey & geospatial class for the engineering department UH Manoa, and hosting the Annual HLSA banquet at Ke`ehi Lagoon Beach Park, just to name a few...check out our the timeline of HLSA's past year's activities and events.

Also, I wanted to pass on the HLSA board's appreciation for our members rallying behind **Senate Bill 1506** *"which provides for a statute of repose that makes clear that if no harm has arisen within a reasonable time, such time as allows property owners to discover an injury, it is fair for the surveyor to no longer concern her or himself with a completed survey."* Please keep an eye out for our HLSA email updates and request for additional testimony as the bill makes its' way through the legislature process.

## **2025 Pacific Rim Geospatial Conference**

The HLSA board has been working diligently with the Hawaii Geographic Information Coordinating Council (HIGICC) to create a great and professional in-person networking and learning experience for the upcoming [2025 Pacific Rim Geospatial Conference](#), taking place at the Ala Moana Hotel in Honolulu, Hawaii on March 5th and 6th, 2025! Check out our [Preliminary Conference and Speaker Agenda](#).

This year's PacRim Conference theme is "Laulima" (cooperation, many hands working together). I cannot think of a better word that encompasses my gratitude for being part of a wonderful team of Geospatial Professionals who have worked tirelessly to merge our organizations' paths together to learn as one.

- *Registration*

To register for the conference, visit the [Conference Registration Page](#) and secure your spot.

For our HLSA members there are additional savings available if you are a current member. Please go to our website and sign up to be a member! [HLSA Membership](#)

- *HLSA Officer Installation Luncheon Thursday March 6th, 2025 (Volunteers Needed)*

One of the most notable events during the conference is the Installation and Appointment of our HLSA officers. This year's Installation of HLSA officers will occur during the PacRim luncheon Thursday March 6th, in addition, we will be recognizing and congratulating our newly licensed Hawaii land surveyors at the luncheon.



# PRESIDENT'S MESSAGE CONTINUATION

Get involved with HLSA to help with our Land Survey community. If you are interested in being an officer or board of director member, please reach out to any of our [current board of directors](#) and let us know of your interest to serve and or volunteer

- *Our Proud Sponsors*

Vendors and Sponsors are a big reason for our past conference success and this year is no different. Check out [Our Proud Sponsors](#) who've signed up to support our Pacific Rim Geospatial Conference!

If your company or organization is interested in supporting the Pacific Rim Geospatial Conference, we have several options for your participation at the [Sponsor signup page](#).

- *Hotel Accommodations*

For our outer island and out-of-state participants, the PacRim Joint Conference Committee has secured a bank of rooms available for our attendees. The Special Room rates at the Ala Moana Hotel are reserved for attendees and vendors who have registered for the 2025 Pacific Rim Geospatial Conference and the rates will be available two days before and after the conference and will be available on a first come basis. Please go to the 2025 Pacific Rim Geospatial Conference [Room Reservation page](#).

## **Laulima to da Max**

Finally, I'd like to take a moment and personally thank the members of The Joint PacRim Conference Committee, (volunteers from the HLSA and HIGICC), who on a weekly basis have put in numerous volunteer hours and who continually bring the best ideas and team energy to ensure all our members have the very best network and learning experience at this year's Geospatial Conference! From the bottom of my heart, Mahalo -- Thank you, Thank you, Thank you!!

When the conference board discussed a theme for this year's conference it was easy to see how Laulima captured the spirit of our committee--This desire to work together to put on an event for our Geospatial community is a beautiful thing to witness and be part of.

We have over 40 Speakers scheduled to share their stories, 15 Exhibitors and Sponsors eager and happy to team & collaborate, and nearly 200 attendees signed up to learn and network with!

In the spirit of Laulima, let us continue to gather our hands together in cooperation and make our Geospatial Community and conference a model for the world.

With much appreciation and respect.

Victor M. Rasgado, LPLS

President, Hawaii Land Surveyors Association Board of Directors



# 2024: A Look Back (January to June)



**2024 HLSA Annual Conference**  
& New Board of Directors elected



January / February 2024

**Western Regional Survey Conference**  
– HLSA represented by Beverly Pascual



**NSPS Spring Meeting**  
Arlington, VA – HLSA represented by Joanne Williamson



March / April 2024

**HB 2148 Statute of Repose** – Bill died in the Senate. To be reintroduced next Legislative session



**2024 HLSA-HIGICC Geospatial Expo & Pau Hana**  
@ UH Hilo, Big Island  
half day of GIS & Land Survey presentations



May / June 2024



**“SURVEYORS’ WEEK”**  
March 17-23



**ASCE UESI Surveying Competition** -- UH Mānoa hosted & HLSA provided judges



**HLSA Board approves new Mission & Objectives Statement**



**Meyer Cummins & Craig Clouet interview on Geoholics Podcast** -- Monument Preservation & Lahaina post fire efforts



# 2024: A Look Back (July to November)



**2024 HLSA-HIGICC Geospatial Expo & Pau Hana**  
on Kauai Island  
half day of GIS & Land Survey presentations



**HLSA provides Maui County with Best Practices for Hiring a Land Surveyor in Lahaina**  
– written and provided by Erich Slentz, Maui Liaison.



**Final Point for Pat Cummins** – design and location decided



**2024 HLSA Annual Dinner** at Lagoon Park, Oahu



**HLSA Newsletter** – coming back! Thanks Christina Villa!



July / August 2024

September / October 2024

November / December 2024



**Survey Scout Merit Badge** -- Field Exercise @ Lagoon Park with three future surveyors



**HLSA Featured in 2024 Hawaii Transportation Annual**



**Surveying and Geomatics courses at HCC Hilo** begins Fall 2024 – AEC program



**HLSA Board approves revised By-Laws for the HLSA**



**Surveying and Geomatics course at UH Manoa** begins Spring 2025 - CEE 220

# ABOUT THE HAWAII LAND SURVEYORS ASSOCIATION

## WHAT IS LAND SURVEYING?

While there are many types of surveys, "surveying" is generally defined as the art and science of locating and/or establishing points on, above, and below the surface of the earth.

This measurement of distances and angles on the Earth's surface is a process dating back thousands of years. Surveying techniques were used by the Ancient Egyptians to reestablish farm boundaries when the Nile River overflowed.

One of the primary roles of a land surveyor is to find the boundary of an entity's property. Wars over boundaries have been (and will continue to be) fought between countries and neighbors, thus establishing the importance and perseverance of the land surveying profession.

## WHAT IS HLSA?

The Hawaii Land Surveyors Association (HLSA) is a non-profit, statewide organization comprised of approximately 70% of Professional Land Surveyors licensed to practice in the State of Hawaii. The organization was created under the original name of Hawaii Association of Land Surveyors in 1988, and has continued to bring together the land surveying community ever since.

## OUR MISSION

To enhance and promote the land surveying profession and its practice.

## OUR OBJECTIVES

1. Promote the quality, value, ethics and professionalism of Land Surveying in the State of Hawaii.
2. Encourage, support, and perpetuate continuing education and training for all members.
3. Foster and support legislation that reinforces the professional integrity of land surveying.
4. Educate and build public interest of land surveying as to its importance of protecting the land.

## A (VERY) BRIEF HISTORY OF THE ORIGIN OF LAND SURVEYING IN HAWAII

Beginning in 1839, King Kamehameha III began enacting bills and constitutions that would eventually lead to The Great Mahele in 1848, where the King and his chiefs came together to divide all the land amongst themselves and their subjects. Foreign surveyors began conducting and recording land surveys, thus documenting the intent of The Great Mahele. The Hawaiian Kingdom was overthrown by the United States Government in 1893, but the ideal of private land ownership persevered.

## WHO WE ARE

HLSA is a volunteer organization that relies on its members to be actively involved in the various initiatives it supports. HLSA supports education, networking, professional development, and legislative efforts.

HLSA has representatives in all counties of the State of Hawaii - Oahu, Big Island, Maui, and Kauai. The representatives work diligently in their counties, organizing and participating in community and educational events. HLSA also participates in regional and national issues that affect the surveying profession.



<b><u>2024-2025 HLSA Board</u></b>
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### **Legislation**

**(2021)** HB 244, HD 1 SSCR1229 **New File Plan Requirements** addressed the issue of mapping and recording original Hawaiian land titles for lands being deregistered from the Land Court.

**(2023)** SB 1468, SD2, HD2, CD1 **Right of Entry Bill** addressed the needs for Land Surveyors to gain access into private property for boundary surveys without the threat of trespassing violations. Must give with proper notice.

**(2024)** HB 2148 is a **Statute of Repose** protects surveyors from any legal claims that may arise after a period of time where no injury is alleged. The intent of the bill is to protect surveyors from litigation after many years where it is impractical or too costly to retain records of the survey.

### **(2025) Monument Preservation**

**Lahaina Monument Preservation**

**Meyer Cummins & Craig Clouet**

**Hawaii Public Radio -- Land surveyors say preserving property markers in  
Lahaina is crucial for rebuilding**

**The Geoholics\_Episode 214 - Meyer Cummins & Craig Clouet**

**Education & Outreach**

**UH Manoa Geomatics Class to begin Spring 2025**

**Scouts Surveying Merit Badge outing (Oahu) June 2024**

# WESTERN REGIONAL SURVEY CONFERENCE MARCH 2024

BY: BEVERLY PASCUAL, LPLS

I attended the Western Regional Survey Conference in March 2024. The conference was held at the Horseshoe Hotel in Las Vegas, Nevada. The three-day conference hosted about 900 people from all over the west coast in the surveying industry, from licensed land surveyors to college students studying geomatics. The classes offered were refreshingly different from our classes in Hawaii, but informative, nonetheless. It was truly amazing to see that even though we surveyors are separated by miles, oceans, and state lines, our cohesive spirit and love of the surveying profession still transcends.



I MADE FRIENDS! ALWAYS AWESOME TO MEET MORE WOMEN IN SURVEYING!

# WESTERN REGIONAL SURVEY CONFERENCE IN MARCH 2024

BY: BEVERLY PASCUAL, LPLS



SILENT AUCTION



MORE NEW FRIENDS AND ENJOYING THE VEGAS NIGHT-LIFE



IN CLASS



THIS BLANKET SHOULD HAVE THE EMBLEMS OF ALL THE SURVEYING ASSOCIATIONS IN THE WESTERN CONFERENCE; I DIDN'T HAVE TIME TO SEE IF HAWAII WAS ON THERE, BUT I HOPE WE ARE!

# SURVEYING MERIT BADGE

BOY SCOUTS OF AMERICA, ALOHA COUNCIL  
BY: MEYER A. CUMMINS, LPLS



On June 29, 2024, the men and women of the Hawaii Land Surveyors Association (HLSA), a non-profit professional organization of land surveyors, met with scouts from the Boy Scouts of America, Aloha Council (Boy Scouts) at Ke'ehi Lagoon Memorial Park to assist them with earning their surveying merit badges. Don't let the name fool you, the Boy Scouts are an inclusive group that serves both boys and girls. Indeed, all of the scouts that attended the event were young women, hungry to learn about land surveying in Hawai'i.

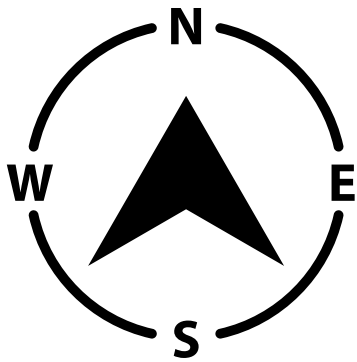
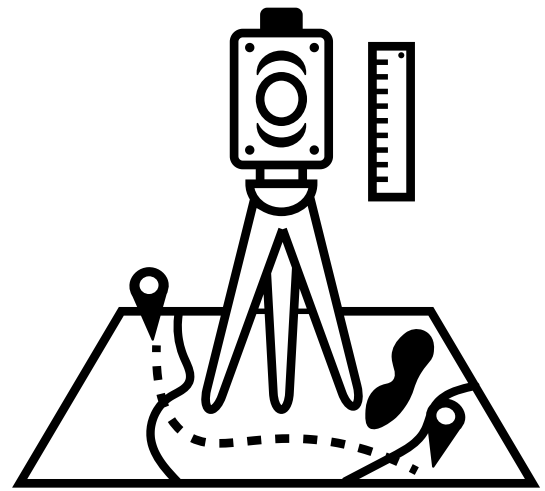
To earn a surveying merit badge, each of the scouts needed to complete a series of training exercises that included the use of professional surveying equipment. Because such equipment can be expensive to acquire and even more difficult to use if one is not a trained professional, the Boy Scouts needed to find an organization that was willing to help out. Thankfully, HLSA was ready to come to their aid. And, as members of HLSA, the surveyors from the DAGS Land Survey Division (Survey Division) also volunteered their kōkua!

In addition to some of the other cutting-edge technologies that surveyors loaned the scouts for the day, Survey Division provided the scouts with equipment vital to their training, including a total station for measuring angles and distances, record documents for review and discussion, and a survey-grade tripod. Further, Ryan Morales, a licensed professional DAGS land surveyor, attended the training exercise as an advisor.

Assisting the other surveyors from HLSA, Ryan taught the scouts how to read deeds, calculate angles and distances, properly record survey notes, and create maps from field measurements. It was truly a big day for everyone involved! In all, the scouts took a deep dive into the world of surveying math, measurements, and mapping, and came out with some new skills and fresh mana'o that will quickly help them earn their merit badges in land surveying.

**Great Job scouts!**







## podcasts for the surveying profession



Please check out Mentoring Mondays for informational presentations to help build our knowledge in this profession.

[WWW.MENTORINGMONDAYS.XYZ](http://WWW.MENTORINGMONDAYS.XYZ)



## surveyor says THE NSPS PODCAST

Want to hear from the movers and shakers of the surveying profession? Each week, NSPS brings you conversations with the trendsetters and difference-makers that are helping to shape the world of surveying. Your hosts, NSPS Executive Director Curt Sumner and NSPS President-Elect Tim Burch sit down with various personalities to discuss all things surveying, all bundled in a 30-minute conversation.

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And remember - "It's a great day to be a surveyor."

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# 2025 PACIFIC RIM GEOSPATIAL CONFERENCE



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*See you all soon!*

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# Technology

Unmanned Aerial Systems (UAS) cover larger areas in less time than traditional ground surveying—saving costs on surveys up to 300 acres.



How does it work?

**Automated flight software on our UAS makes all the difference. The mission area is programmed into a mapping interface that calculates how the UAS should fly to collect the area of information needed. This route is uploaded to the Unmanned Aerial Vehicle (UAV) which flies the entire mission in a fully automated pattern—flying, capturing images, and landing all on its own.**

What can it do?

**The UAS platform carries a sensor; determining the required sensor to capture the data is key. From an RGB camera to infrared, multispectral, gas, and thermal sensors, UAS captures everything from high resolution oblique imagery or HD video to leak and heat detection. With new sensors hitting the market, more doors are opening for new data collection methods.**

# Design with **community** in mind

Communities are fundamental. Whether around the corner or across the globe, they provide a foundation, a sense of place and of belonging. That's why at Stantec, we always design with community in mind.

We care about the communities we serve—because they're our communities too. We're designers, engineers, scientists, and project managers, innovating together at the intersection of community, creativity, and client relationships. Balancing these priorities results in projects that advance the quality of life in communities across the globe. Stantec trades on the TSX and the NYSE under the symbol STN. Visit us at [stantec.com](http://stantec.com) or contact us below for your Unmanned Aerial System (UAS) Survey needs.

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SCAN ME



## Geomatics takes **flight**

**Unmanned Aerial System (UAS)**



# Capabilities

Collecting data is our specialty. We have the right tools to deliver accurate information.

Our arsenal includes levels, total stations, GPS, and laser scanning. Next up is integrating UAS on project sites like landfills, gravel pits, plant sites, or even undeveloped land to deliver high resolution imagery and topographic data.

## Our UAS capabilities include:

- High resolution orthomosaics/ortho photography
- Classified point clouds
- Digital surface models (DSM)
- Digital terrain models (DTM)
- Contours
- GIS data
- Photo stills
- Videos
- 3D point cloud data
- Lidar
- Multi-sensor formats

# Benefits

Safety is our goal and UAS helps contribute to this.

When we're inspecting the underside of a bridge or the top of a building, not only can the task be difficult and costly—it comes with some risks. By deploying a UAS system, it can assess a structure or project site's condition remotely and without the need for scaffolding, cranes, or harnesses.

## Our UAS benefits include:

- Safety
- 3D Modeling over a large area
- Access to remote areas
- High resolution photography
- Integration with ground laser scanning
- Integration with ground photography
- Multiple data format exports
- Quick response time
- Cost savings

## Drones aren't just for everyone.

FAA Part 107 guidelines and restrictions govern commercial UAS operations in the United States. These restrictions identify where commercial UAS flights can legally operate, at what height, and for what distance. We've got Hawai'i, Alaska, California, and the Western States covered with pilots certified to legally operate UAS for commercial use.

# Applications

The sky's the limit with UAS! This technology isn't just for one type of industry, it can be utilized for a variety of sectors and uses.

→ With the same amount of field time, we capture roughly 1,000 times more data points than traditional survey methods.